APPENDIX C

ANALYTICAL RESULTS, LABORATORY ANALYTICAL REPORTS, AND CHAIN OF CUSTODY FORMS

PART 18
ANALYTICAL REPORT
240-49236-1

(Note—To be provided on disc only)

ANALYTICAL REPORT

Job Number: 240-49236-1

Job Description: Ravenna Army Ammunition Plant

For:
Environmental Chemical Corp.
33 Boston Post Road West
Suite 420
Marlborough, MA 01752

Attention: Mr. Jackson Kiker

Approved for release.
Mark J Loeb
Project Manager II
4/30/2015 6:21 PM

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04/30/2015

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
^	Instrument related QC is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
^	Instrument related QC is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
D	The reported value is from a dilution.
^	Instrument related QC is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

Metals

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
D	The reported value is from a dilution.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
H	Sample was prepped or analyzed beyond the specified holding time
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Environmental Chemical Corp.

Project: Ravenna Army Ammunition Plant

Report Number: 240-49236-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 353.2 Nitrocellulose, 8330 Nitroguanidine and 8330B Explosives analysis were performed at the TestAmerica Sacramento Laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 4/10/2015 2:21 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.5º C, 3.7º C, 4.1º C and 5.3º C.

TCLP VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP volatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8260 DoD. The samples were leached on 04/15/2015 and analyzed on 04/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 079SB-0385-0001-SW (240-49236-3), 079SB-0387-0001-RB (240-49236-5) and 079SB-0388-0001-TB (240-49236-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 04/14/2015.

Bromomethane and Chloroethane failed the recovery criteria high for MRL 240-176298/15. Bromomethane, Chloroethane, Chloromethane and Vinyl chloride failed the recovery criteria high for MRL 240-176298/5. Refer to the QC report for details.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 176298. 079SB-0385-0001-SW (240-49236-3), 079SB-0387-0001-RB (240-49236-5) and 079SB-0388-0001-TB (240-49236-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)
Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8270 DOD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/24/2015.

The following sample was diluted due to the nature of the sample matrix: 079SB-0384-0001-IDW (240-49236-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)
Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The sample was prepared on 04/13/2015 and analyzed on 04/24/2015.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176086.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITROGUANIDINE (HPLC)
Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for nitroguanidine (HPLC) in accordance with EPA SW-846 Method 8330_Ngu. The sample was prepared on 04/13/2015 and analyzed on 04/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP CHLORINATED PESTICIDES
Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP chlorinated pesticides in accordance with EPA SW-846 Methods 1311/8081 DOD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and 04/22/2015 and analyzed on 04/22/2015 and 04/27/2015.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for 079SB-0384-0001-IDW (240-49236-2). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for 079SB-0384-0001-IDWMS (240-49236-2MS). Refer to the QC report for details.

Both surrogates failed low. Re-extraction confirms matrix issue. Re-extracted data within hold time and reported. 079SB-0384-0001-IDW (240-49236-2) and (240-49236-F-2-I MS)

Endrin, Heptachlor, Heptachlor epoxide and Methoxychlor failed the recovery criteria low for the MS of sample 079SB-0384-0001-IDWMS (240-49236-2) in batch 240-178086.

Methoxychlor was detected in method blank MB 240-177491/3-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED PESTICIDES
Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were prepared on 04/15/2015 and analyzed on 04/16/2015.

The continuing calibration verification (CCV) associated with batch 177258 recovered above the upper control limit for Multiple Analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 079SB-0383-0001-IDW (240-49236-1).

The continuing calibration verification (CCV) associated with batch 178086 recovered above the upper control limit for Heptachlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 079SB-0384-0001-IDW (240-49236-2).

The DCB surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column : 079SB-0385-0001-SW (240-49236-3). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Re-extraction of the sample confirms low DCB recovery.

The continuing calibration verification (CCV) associated with batch 176694 recovered above the upper control limit for DDD. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 079SB-0385-0001-SW (240-49236-3).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176084.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176509.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DoD. The sample was prepared on 04/13/2015 and analyzed on 04/14/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for 079SB-0385-0001-SW (240-49236-3). Refer to the QC report for details.

Surrogate DCB recovery for the following sample was outside control limits: 079SB-0385-0001-SW (240-49236-3). Re-extraction and re-analysis was performed with concurring results.The original analysis has been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176083.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176510.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP CHLORINATED HERBICIDES

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP chlorinated herbicides in accordance with EPA SW-846 Methods 1311/8151A DoD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/21/2015.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITROAROMATICS AND NITRAMINES (HPLC)

Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with EPA SW-846 Method 8330B. The sample was prepared on 04/13/2015 and analyzed on 04/15/2015 and 04/24/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 320-70962.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP METALS (ICP)

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010 DoD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/17/2015.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Arsenic, Barium, Chromium, Lead and Selenium were detected in method blank LB 240-176620/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Barium and Chromium were detected in method blank MB 240-176697/2-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Arsenic exceeded the RPD limit for the duplicate of sample 079SB-0383-0001-IDWDU (240-49236-1). Refer to the QC report for details.

Sample 079SB-0383-0001-IDW (240-49236-1)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample was diluted due to the nature of the sample matrix: 079SB-0383-0001-IDW (240-49236-1). Elevated reporting limits

(RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)
Samples 079SB-0385-0001-SW (240-49236-3) and 079SB-0386-0001-RB (240-49236-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were prepared on 04/13/2015 and analyzed on 04/14/2015, 04/15/2015 and 04/20/2015.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Several analytes were detected in method blank MB 240-176157/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Antimony, Cadmium, Cobalt, Lead and Thallium exceeded the RPD limit for the duplicate of sample 079SB-0385-0001-SWDU (240-49236-3). Refer to the QC report for details.

Sample 079SB-0385-0001-SW (240-49236-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP MERCURY
Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP Mercury in accordance with EPA SW-846 Methods 1311/7470 DoD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY
Samples 079SB-0385-0001-SW (240-49236-3) and 079SB-0386-0001-RB (240-49236-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7470A. The samples were prepared on 04/13/2015 and analyzed on 04/14/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FLASHPOINT
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for flashpoint in accordance with EPA SW-846 Method 1010. The sample was analyzed on 04/15/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FLASHPOINT
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for flashpoint in accordance with EPA SW-846 Method 1010. The sample was analyzed on 04/15/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITROCELLULOSE
Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for Nitrocellulose in accordance with EPA Method 353.2. The sample was prepared and analyzed on 04/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012A DoD. The sample was prepared and analyzed on 04/13/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012A DoD. The sample was prepared and analyzed on 04/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The sample was

prepared and analyzed on 04/14/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The sample was prepared and analyzed on 04/14/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for pH in accordance with EPA SW-846 Method 9040C. The sample was analyzed on 04/13/2015.

The following sample was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 079SB-0384-0001-IDW (240-49236-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for pH in accordance with EPA SW-846 Method 9045C. The sample was analyzed on 04/13/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The sample was analyzed on 04/10/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Client Sample ID: 079SB-0383-0001-IDW — Lab Sample ID: 240-49236-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0011	J M	0.020	0.00035	mg/L	1		8270C	TCLP
Silver	0.0027	J	0.50	0.00092	mg/L	1		6010B	TCLP
Arsenic	0.013	J D	2.0	0.012	mg/L	4		6010B	TCLP
Barium	0.38	J	10	0.0010	mg/L	1		6010B	TCLP
Cadmium	0.0010	J	0.10	0.00014	mg/L	1		6010B	TCLP
Chromium	0.0039	J	0.50	0.00055	mg/L	1		6010B	TCLP
Lead	0.022	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.018	J D	1.0	0.016	mg/L	4		6010B	TCLP
Flashpoint	>200		1.00	1.00	Degrees F	1		1010	Total/NA
Corrosivity	6.26		0.100	0.100	SU	1		9045C	Total/NA

Client Sample ID: 079SB-0384-0001-IDW — Lab Sample ID: 240-49236-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0074	J	0.50	0.0029	mg/L	1		6010B	TCLP
Barium	0.045	J	10	0.0010	mg/L	1		6010B	TCLP
Cadmium	0.00076	J	0.10	0.00014	mg/L	1		6010B	TCLP
Chromium	0.0067	J	0.50	0.00055	mg/L	1		6010B	TCLP
Lead	0.023	J	0.50	0.0019	mg/L	1		6010B	TCLP
Flashpoint	>200		1.00	1.00	Degrees F	1		1010	Total/NA
Corrosivity	7.22	H	0.100	0.100	SU	1		9040C	Total/NA

Client Sample ID: 079SB-0385-0001-SW — Lab Sample ID: 240-49236-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	10	0.94	ug/L	1		8260B	Total/NA
Antimony	0.43	J	2.0	0.16	ug/L	1		6020	Total Recoverable
Arsenic	0.93	J	5.0	0.18	ug/L	1		6020	Total Recoverable
Barium	18		5.0	1.1	ug/L	1		6020	Total Recoverable
Beryllium	0.27	J	1.0	0.053	ug/L	1		6020	Total Recoverable
Cadmium	0.38	J	2.0	0.061	ug/L	1		6020	Total Recoverable
Calcium	18000		2000	240	ug/L	1		6020	Total Recoverable
Chromium	1.3	J	6.0	0.20	ug/L	1		6020	Total Recoverable
Cobalt	0.28	J	1.0	0.021	ug/L	1		6020	Total Recoverable
Copper	1.1	J	4.0	0.75	ug/L	1		6020	Total Recoverable
Iron	30	J	150	16	ug/L	1		6020	Total Recoverable
Lead	0.18	J	1.0	0.11	ug/L	1		6020	Total Recoverable
Magnesium	31000	D	5000	240	ug/L	5		6020	Total Recoverable
Potassium	2700		1000	30	ug/L	1		6020	Total Recoverable
Selenium	0.62	J	5.0	0.25	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 079SB-0385-0001-SW (Continued) — Lab Sample ID: 240-49236-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Sodium	43000		1000	68	ug/L	1		6020	Total Recoverable
Thallium	0.22	J	2.0	0.074	ug/L	1		6020	Total Recoverable
Vanadium	0.35	J	5.0	0.23	ug/L	1		6020	Total Recoverable

Client Sample ID: 079SB-0386-0001-RB — Lab Sample ID: 240-49236-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	53	J	60	9.0	ug/L	1		6020	Total Recoverable
Antimony	0.66	J	2.0	0.16	ug/L	1		6020	Total Recoverable
Arsenic	0.38	J	5.0	0.18	ug/L	1		6020	Total Recoverable
Beryllium	0.16	J	1.0	0.053	ug/L	1		6020	Total Recoverable
Cadmium	0.079	J	2.0	0.061	ug/L	1		6020	Total Recoverable
Chromium	2.0	J	6.0	0.20	ug/L	1		6020	Total Recoverable
Cobalt	0.13	J	1.0	0.021	ug/L	1		6020	Total Recoverable
Iron	57	J	150	16	ug/L	1		6020	Total Recoverable
Manganese	5.8	J	10	1.1	ug/L	1		6020	Total Recoverable
Nickel	2.8	J	5.0	0.23	ug/L	1		6020	Total Recoverable
Sodium	840	J	1000	68	ug/L	1		6020	Total Recoverable
Thallium	0.11	J	2.0	0.074	ug/L	1		6020	Total Recoverable
Vanadium	0.26	J	5.0	0.23	ug/L	1		6020	Total Recoverable

Client Sample ID: 079SB-0387-0001-RB — Lab Sample ID: 240-49236-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	0.94	ug/L	1		8260B	Total/NA

Client Sample ID: 079SB-0388-0001-TB — Lab Sample ID: 240-49236-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J	10	0.94	ug/L	1		8260B	Total/NA
Methylene Chloride	3.3		1.0	0.33	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 079SB-0383-0001-IDW
Date Collected: 04/10/15 08:00
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.013	U	0.025	0.0095	mg/L			04/21/15 19:11	1
1,2-Dichloroethane	0.013	U	0.025	0.011	mg/L			04/21/15 19:11	1
2-Butanone (MEK)	0.025	U	0.25	0.029	mg/L			04/21/15 19:11	1
Benzene	0.013	U	0.025	0.0065	mg/L			04/21/15 19:11	1
Carbon tetrachloride	0.013	U	0.025	0.0065	mg/L			04/21/15 19:11	1
Chlorobenzene	0.013	U	0.025	0.0075	mg/L			04/21/15 19:11	1
Chloroform	0.013	U	0.025	0.0080	mg/L			04/21/15 19:11	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/21/15 19:11	1
Trichloroethene	0.013	U	0.025	0.0085	mg/L			04/21/15 19:11	1
Vinyl chloride	0.013	U	0.025	0.011	mg/L			04/21/15 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*80 - 120*		*04/21/15 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 121*		*04/21/15 19:11*	*1*
4-Bromofluorobenzene (Surr)	*77*		*70 - 124*		*04/21/15 19:11*	*1*
Dibromofluoromethane (Surr)	*90*		*84 - 128*		*04/21/15 19:11*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00050	U	0.0040	0.00034	mg/L		04/16/15 08:13	04/24/15 12:18	1
2,4,5-Trichlorophenol	0.00050	U	0.020	0.00030	mg/L		04/16/15 08:13	04/24/15 12:18	1
2,4,6-Trichlorophenol	0.00050	U	0.020	0.00024	mg/L		04/16/15 08:13	04/24/15 12:18	1
2,4-Dinitrotoluene	0.00050	U	0.020	0.00025	mg/L		04/16/15 08:13	04/24/15 12:18	1
Hexachlorobenzene	0.00010	U	0.020	0.000085	mg/L		04/16/15 08:13	04/24/15 12:18	1
Hexachlorobutadiene	0.00050	U	0.020	0.00027	mg/L		04/16/15 08:13	04/24/15 12:18	1
Hexachloroethane	0.00050	U	0.020	0.00019	mg/L		04/16/15 08:13	04/24/15 12:18	1
3 & 4 Methylphenol	0.0010	U	0.040	0.00080	mg/L		04/16/15 08:13	04/24/15 12:18	1
2-Methylphenol	0.00050	U	0.0040	0.00017	mg/L		04/16/15 08:13	04/24/15 12:18	1
Nitrobenzene	0.00010	U	0.0040	0.000040	mg/L		04/16/15 08:13	04/24/15 12:18	1
Pentachlorophenol	0.0010	U	0.040	0.00027	mg/L		04/16/15 08:13	04/24/15 12:18	1
Pyridine	**0.0011**	**J M**	0.020	0.00035	mg/L		04/16/15 08:13	04/24/15 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*22 - 110*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
2-Fluorophenol (Surr)	*60*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
Nitrobenzene-d5 (Surr)	*78*		*29 - 111*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
Terphenyl-d14 (Surr)	*85*		*40 - 119*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*17 - 117*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
Phenol-d5 (Surr)	*74*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0012	U	0.030	0.00014	mg/L		04/16/15 08:22	04/22/15 04:55	1
Endrin	0.00012	U Q	0.010	0.000013	mg/L		04/16/15 08:22	04/22/15 04:55	1
gamma-BHC (Lindane)	0.00012	U Q	0.010	0.000013	mg/L		04/16/15 08:22	04/22/15 04:55	1
Heptachlor	0.00012	U Q	0.010	0.000014	mg/L		04/16/15 08:22	04/22/15 04:55	1
Heptachlor epoxide	0.00012	U Q	0.010	0.000015	mg/L		04/16/15 08:22	04/22/15 04:55	1
Methoxychlor	0.00012	U Q	0.030	0.000013	mg/L		04/16/15 08:22	04/22/15 04:55	1
Toxaphene	0.0048	U	0.50	0.00020	mg/L		04/16/15 08:22	04/22/15 04:55	1

Client Sample ID: 079SB-0383-0001-IDW

Lab Sample ID: 240-49236-1

Date Collected: 04/10/15 08:00

Matrix: Solid

Date Received: 04/10/15 14:21

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*	*Q*	*44 - 144*	*04/16/15 08:22*	*04/22/15 04:55*	*1*
DCB Decachlorobiphenyl	*93*	*Q*	*44 - 144*	*04/16/15 08:22*	*04/22/15 04:55*	*1*
Tetrachloro-m-xylene	*90*	*Q*	*44 - 127*	*04/16/15 08:22*	*04/22/15 04:55*	*1*
Tetrachloro-m-xylene	*92*	*Q*	*44 - 127*	*04/16/15 08:22*	*04/22/15 04:55*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0040	U	0.50	0.0019	mg/L		04/16/15 08:24	04/21/15 20:53	1
Silvex (2,4,5-TP)	0.00020	U	0.10	0.00027	mg/L		04/16/15 08:24	04/21/15 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*	*Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 20:53*	*1*
2,4-Dichlorophenylacetic acid	*82*	*Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 20:53*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.0027**	**J**	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 08:35	1
Arsenic	**0.013**	**J D**	2.0	0.012	mg/L		04/16/15 09:57	04/17/15 09:10	4
Barium	**0.38**	**J**	10	0.0010	mg/L		04/16/15 09:57	04/17/15 08:35	1
Cadmium	**0.0010**	**J**	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 08:35	1
Chromium	**0.0039**	**J**	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 08:35	1
Lead	**0.022**	**J**	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 08:35	1
Selenium	**0.018**	**J D**	1.0	0.016	mg/L		04/16/15 09:57	04/17/15 09:10	4

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>200**		1.00	1.00	Degrees F			04/15/15 09:50	1
Cyanide, Total	0.55	U	0.55	0.33	mg/Kg	☼	04/13/15 09:56	04/13/15 14:29	1
Sulfide	35	U	36	26	mg/Kg	☼	04/14/15 08:03	04/14/15 13:02	1
Corrosivity	**6.26**		0.100	0.100	SU			04/13/15 12:45	1

Client Sample ID: 079SB-0384-0001-IDW

Lab Sample ID: 240-49236-2

Date Collected: 04/10/15 08:30

Matrix: Water

Date Received: 04/10/15 14:21

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.013	U	0.025	0.0095	mg/L			04/21/15 19:36	1
1,2-Dichloroethane	0.013	U	0.025	0.011	mg/L			04/21/15 19:36	1
2-Butanone (MEK)	0.025	U	0.25	0.029	mg/L			04/21/15 19:36	1
Benzene	0.013	U	0.025	0.0065	mg/L			04/21/15 19:36	1
Carbon tetrachloride	0.013	U	0.025	0.0065	mg/L			04/21/15 19:36	1
Chlorobenzene	0.013	U	0.025	0.0075	mg/L			04/21/15 19:36	1
Chloroform	0.013	U	0.025	0.0080	mg/L			04/21/15 19:36	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/21/15 19:36	1
Trichloroethene	0.013	U	0.025	0.0085	mg/L			04/21/15 19:36	1
Vinyl chloride	0.013	U	0.025	0.011	mg/L			04/21/15 19:36	1

Client Sample ID: 079SB-0384-0001-IDW
Date Collected: 04/10/15 08:30
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/21/15 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 121*		*04/21/15 19:36*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 124*		*04/21/15 19:36*	*1*
Dibromofluoromethane (Surr)	*96*		*84 - 128*		*04/21/15 19:36*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0020	U	0.016	0.0014	mg/L		04/16/15 08:13	04/24/15 12:43	4
2,4,5-Trichlorophenol	0.0020	U	0.080	0.0012	mg/L		04/16/15 08:13	04/24/15 12:43	4
2,4,6-Trichlorophenol	0.0020	U	0.080	0.00096	mg/L		04/16/15 08:13	04/24/15 12:43	4
2,4-Dinitrotoluene	0.0020	U	0.080	0.0010	mg/L		04/16/15 08:13	04/24/15 12:43	4
Hexachlorobenzene	0.00040	U	0.080	0.00034	mg/L		04/16/15 08:13	04/24/15 12:43	4
Hexachlorobutadiene	0.0020	U	0.080	0.0011	mg/L		04/16/15 08:13	04/24/15 12:43	4
Hexachloroethane	0.0020	U	0.080	0.00076	mg/L		04/16/15 08:13	04/24/15 12:43	4
3 & 4 Methylphenol	0.0040	U	0.16	0.0032	mg/L		04/16/15 08:13	04/24/15 12:43	4
2-Methylphenol	0.0020	U	0.016	0.00068	mg/L		04/16/15 08:13	04/24/15 12:43	4
Nitrobenzene	0.00040	U	0.016	0.00016	mg/L		04/16/15 08:13	04/24/15 12:43	4
Pentachlorophenol	0.0040	U	0.16	0.0011	mg/L		04/16/15 08:13	04/24/15 12:43	4
Pyridine	0.0020	U	0.080	0.0014	mg/L		04/16/15 08:13	04/24/15 12:43	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*85*		*22 - 110*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
2-Fluorophenol (Surr)	*19*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
Nitrobenzene-d5 (Surr)	*72*		*29 - 111*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
Terphenyl-d14 (Surr)	*80*		*40 - 119*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
2,4,6-Tribromophenol (Surr)	*96*		*17 - 117*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
Phenol-d5 (Surr)	*68*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:43*	*4*

Method: 8081A - Organochlorine Pesticides (GC) - TCLP - RE

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0015	U Q	0.038	0.00018	mg/L		04/22/15 15:15	04/27/15 15:27	1
Endrin	0.00015	U Q J	0.013	0.000016	mg/L		04/22/15 15:15	04/27/15 15:27	1
gamma-BHC (Lindane)	0.00015	U Q	0.013	0.000016	mg/L		04/22/15 15:15	04/27/15 15:27	1
Heptachlor	0.00015	U Q J	0.013	0.000018	mg/L		04/22/15 15:15	04/27/15 15:27	1
Heptachlor epoxide	0.00015	U Q J	0.013	0.000019	mg/L		04/22/15 15:15	04/27/15 15:27	1
Methoxychlor	0.00015	U Q J	0.038	0.000016	mg/L		04/22/15 15:15	04/27/15 15:27	1
Toxaphene	0.0060	U Q	0.63	0.00024	mg/L		04/22/15 15:15	04/27/15 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*4*	*Q*	*44 - 144*	*04/22/15 15:15*	*04/27/15 15:27*	*1*
DCB Decachlorobiphenyl	*4*	*Q*	*44 - 144*	*04/22/15 15:15*	*04/27/15 15:27*	*1*
Tetrachloro-m-xylene	*35*	*Q*	*44 - 127*	*04/22/15 15:15*	*04/27/15 15:27*	*1*
Tetrachloro-m-xylene	*25*	*Q*	*44 - 127*	*04/22/15 15:15*	*04/27/15 15:27*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0040	U	0.50	0.0019	mg/L		04/16/15 08:24	04/21/15 21:41	1
Silvex (2,4,5-TP)	0.00020	U	0.10	0.00027	mg/L		04/16/15 08:24	04/21/15 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*97*	*M Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 21:41*	*1*

Client Sample ID: 079SB-0384-0001-IDW — Lab Sample ID: 240-49236-2

Date Collected: 04/10/15 08:30 — **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 8151A - Herbicides (GC) - TCLP (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*99*	*Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 21:41*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0050	U	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 09:06	1
Arsenic	**0.0074**	**J**	0.50	0.0029	mg/L		04/16/15 09:57	04/17/15 09:06	1
Barium	**0.045**	**J**	10	0.0010	mg/L		04/16/15 09:57	04/17/15 09:06	1
Cadmium	**0.00076**	**J**	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 09:06	1
Chromium	**0.0067**	**J**	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 09:06	1
Lead	**0.023**	**J**	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 09:06	1
Selenium	0.010	U	0.25	0.0040	mg/L		04/16/15 09:57	04/17/15 09:06	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:49	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>200**		1.00	1.00	Degrees F			04/15/15 06:57	1
Cyanide, Total	0.0050	U	0.010	0.0020	mg/L		04/23/15 11:18	04/23/15 14:37	1
Sulfide	3.0	U	3.0	0.94	mg/L		04/14/15 08:03	04/14/15 13:11	1
Corrosivity	**7.22**	**H**	0.100	0.100	SU			04/13/15 11:27	1

Client Sample ID: 079SB-0385-0001-SW — Lab Sample ID: 240-49236-3

Date Collected: 04/10/15 08:45 — **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:04	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 12:04	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 12:04	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 12:04	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 12:04	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 12:04	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 12:04	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 12:04	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 12:04	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 12:04	1
Acetone	**1.9**	**J**	10	0.94	ug/L			04/14/15 12:04	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 12:04	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 12:04	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:04	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 12:04	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 12:04	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 12:04	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 12:04	1

Client Sample ID: 079SB-0385-0001-SW **Lab Sample ID: 240-49236-3**
Date Collected: 04/10/15 08:45 **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 12:04	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 12:04	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/14/15 12:04	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 12:04	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 12:04	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 12:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 12:04	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 12:04	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 12:04	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 12:04	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 12:04	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*85 - 120*		*04/14/15 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 120*		*04/14/15 12:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/14/15 12:04*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*04/14/15 12:04*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Acenaphthylene	0.096	U	0.19	0.046	ug/L		04/13/15 06:18	04/24/15 11:53	1
Anthracene	0.096	U	0.19	0.085	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[a]anthracene	0.096	U	0.19	0.028	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[a]pyrene	0.096	U	0.19	0.049	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[b]fluoranthene	0.096	U	0.19	0.038	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[g,h,i]perylene	0.096	U	0.19	0.045	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzoic acid	19	U	24	9.6	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[k]fluoranthene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzyl alcohol	0.48	U	4.8	0.37	ug/L		04/13/15 06:18	04/24/15 11:53	1
Bis(2-chloroethoxy)methane	0.48	U	0.96	0.31	ug/L		04/13/15 06:18	04/24/15 11:53	1
Bis(2-chloroethyl)ether	0.096	U	0.96	0.096	ug/L		04/13/15 06:18	04/24/15 11:53	1
bis (2-chloroisopropyl) ether	0.48	U	0.96	0.38	ug/L		04/13/15 06:18	04/24/15 11:53	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.6	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Bromophenyl phenyl ether	0.48	U	1.9	0.21	ug/L		04/13/15 06:18	04/24/15 11:53	1
Butyl benzyl phthalate	0.48	U	4.8	0.25	ug/L		04/13/15 06:18	04/24/15 11:53	1
Carbazole	0.48	U	0.96	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Chloroaniline	0.48	U	1.9	0.20	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Chloro-3-methylphenol	0.48	U	1.9	0.20	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Chloronaphthalene	0.48	U	0.96	0.096	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Chlorophenol	0.48	U	0.96	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Chlorophenyl phenyl ether	0.48	U	1.9	0.29	ug/L		04/13/15 06:18	04/24/15 11:53	1
Chrysene	0.096	U	0.19	0.048	ug/L		04/13/15 06:18	04/24/15 11:53	1
Dibenz(a,h)anthracene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Dibenzofuran	0.096	U	0.96	0.019	ug/L		04/13/15 06:18	04/24/15 11:53	1
1,2-Dichlorobenzene	0.48	U	0.96	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1

Client Sample ID: 079SB-0385-0001-SW
Date Collected: 04/10/15 08:45
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.48	U	0.96	0.22	ug/L		04/13/15 06:18	04/24/15 11:53	1
1,4-Dichlorobenzene	0.48	U	0.96	0.33	ug/L		04/13/15 06:18	04/24/15 11:53	1
3,3'-Dichlorobenzidine	0.96	U	4.8	0.36	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dichlorophenol	0.48	U	1.9	0.18	ug/L		04/13/15 06:18	04/24/15 11:53	1
Diethyl phthalate	0.96	U	1.9	0.58	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dimethylphenol	0.48	U	1.9	0.24	ug/L		04/13/15 06:18	04/24/15 11:53	1
Dimethyl phthalate	0.48	U	1.9	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1
Di-n-butyl phthalate	4.8	U	4.8	1.6	ug/L		04/13/15 06:18	04/24/15 11:53	1
4,6-Dinitro-2-methylphenol	3.8	U	4.8	2.3	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dinitrophenol	0.96	U	4.8	0.31	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dinitrotoluene	0.48	U	4.8	0.24	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,6-Dinitrotoluene	4.8	U	4.8	1.0	ug/L		04/13/15 06:18	04/24/15 11:53	1
Di-n-octyl phthalate	0.48	U	1.9	0.22	ug/L		04/13/15 06:18	04/24/15 11:53	1
Fluoranthene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Fluorene	0.096	U	0.19	0.039	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachlorobenzene	0.096	U	0.19	0.082	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachlorobutadiene	0.48	U	0.96	0.26	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachlorocyclopentadiene	0.48	U	9.6	0.23	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachloroethane	0.48	U	0.96	0.18	ug/L		04/13/15 06:18	04/24/15 11:53	1
Indeno[1,2,3-cd]pyrene	0.096	U	0.19	0.042	ug/L		04/13/15 06:18	04/24/15 11:53	1
Isophorone	0.48	U	0.96	0.26	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Methylnaphthalene	0.096	U	0.19	0.087	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Methylphenol	0.48	U	0.96	0.16	ug/L		04/13/15 06:18	04/24/15 11:53	1
3 & 4 Methylphenol	0.96	U	1.9	0.77	ug/L		04/13/15 06:18	04/24/15 11:53	1
Naphthalene	0.096	U	0.19	0.060	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Nitroaniline	0.48	U	1.9	0.20	ug/L		04/13/15 06:18	04/24/15 11:53	1
3-Nitroaniline	0.48	U	1.9	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Nitroaniline	0.48	U	1.9	0.21	ug/L		04/13/15 06:18	04/24/15 11:53	1
Nitrobenzene	0.096	U	0.96	0.038	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Nitrophenol	0.48	U	1.9	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Nitrophenol	3.8	U	4.8	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1
N-Nitrosodi-n-propylamine	0.48	U	0.96	0.23	ug/L		04/13/15 06:18	04/24/15 11:53	1
N-Nitrosodiphenylamine	0.48	U	0.96	0.30	ug/L		04/13/15 06:18	04/24/15 11:53	1
Pentachlorophenol	0.96	U	4.8	0.26	ug/L		04/13/15 06:18	04/24/15 11:53	1
Phenanthrene	0.096	U	0.19	0.060	ug/L		04/13/15 06:18	04/24/15 11:53	1
Phenol	0.96	U	0.96	0.58	ug/L		04/13/15 06:18	04/24/15 11:53	1
Pyrene	0.096	U	0.19	0.040	ug/L		04/13/15 06:18	04/24/15 11:53	1
1,2,4-Trichlorobenzene	0.48	U	0.96	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4,5-Trichlorophenol	0.48	U	4.8	0.29	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4,6-Trichlorophenol	0.48	U	4.8	0.23	ug/L		04/13/15 06:18	04/24/15 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*50 - 110*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
2-Fluorophenol (Surr)	*75*		*20 - 110*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
Nitrobenzene-d5 (Surr)	*69*		*40 - 110*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
Phenol-d5 (Surr)	*74*		*10 - 115*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
Terphenyl-d14 (Surr)	*53*		*50 - 135*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*40 - 125*	*04/13/15 06:18*	*04/24/15 11:53*	*1*

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Lab Sample ID: 240-49236-3
Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) - RE

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.048	U Q	0.048	0.017	ug/L		04/15/15 09:05	04/16/15 20:43	1
4,4'-DDE	0.048	U	0.048	0.012	ug/L		04/15/15 09:05	04/16/15 20:43	1
4,4'-DDT	0.048	U	0.048	0.016	ug/L		04/15/15 09:05	04/16/15 20:43	1
Aldrin	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
alpha-BHC	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
alpha-Chlordane	0.048	U	0.048	0.012	ug/L		04/15/15 09:05	04/16/15 20:43	1
beta-BHC	0.048	U	0.048	0.017	ug/L		04/15/15 09:05	04/16/15 20:43	1
delta-BHC	0.048	U	0.048	0.028	ug/L		04/15/15 09:05	04/16/15 20:43	1
Dieldrin	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endosulfan I	0.048	U	0.048	0.015	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endosulfan II	0.048	U	0.048	0.014	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endosulfan sulfate	0.048	U	0.048	0.014	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endrin	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endrin aldehyde	0.048	U	0.048	0.017	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endrin ketone	0.048	U	0.048	0.015	ug/L		04/15/15 09:05	04/16/15 20:43	1
gamma-BHC (Lindane)	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
gamma-Chlordane	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Heptachlor	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Heptachlor epoxide	0.048	U	0.048	0.014	ug/L		04/15/15 09:05	04/16/15 20:43	1
Methoxychlor	0.048	U	0.096	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Toxaphene	1.9	U	1.9	0.19	ug/L		04/15/15 09:05	04/16/15 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*30 - 135*	*04/15/15 09:05*	*04/16/15 20:43*	*1*
DCB Decachlorobiphenyl	*28*	*Q*	*30 - 135*	*04/15/15 09:05*	*04/16/15 20:43*	*1*
Tetrachloro-m-xylene	*78*		*25 - 140*	*04/15/15 09:05*	*04/16/15 20:43*	*1*
Tetrachloro-m-xylene	*73*		*25 - 140*	*04/15/15 09:05*	*04/16/15 20:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	0.19	U Q	0.48	0.12	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1016	0.19	U Q	0.48	0.16	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1232	0.19	U Q	0.48	0.15	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1242	0.38	U Q	0.48	0.21	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1248	0.19	U Q	0.48	0.095	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1254	0.19	U Q	0.48	0.15	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1260	0.19	U Q	0.48	0.16	ug/L		04/13/15 06:11	04/14/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:05*	*1*
Tetrachloro-m-xylene	*76*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:05*	*1*
DCB Decachlorobiphenyl	*23*	*Q*	*40 - 135*	*04/13/15 06:11*	*04/14/15 14:05*	*1*
DCB Decachlorobiphenyl	*23*	*Q*	*40 - 135*	*04/13/15 06:11*	*04/14/15 14:05*	*1*

Method: 8330 Modified - Nitroguanidine (HPLC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0	U	20	2.4	ug/L		04/13/15 19:24	04/20/15 17:05	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.053	U	0.11	0.033	ug/L		04/13/15 09:25	04/15/15 20:09	1

Client Sample ID: 079SB-0385-0001-SW
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Lab Sample ID: 240-49236-3
Matrix: Water

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2,4,6-Trinitrotoluene	0.11	U J	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2,4-Dinitrotoluene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2,6-Dinitrotoluene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.21	0.016	ug/L		04/13/15 09:25	04/15/15 20:09	1
2-Nitrotoluene	0.11	U	0.53	0.094	ug/L		04/13/15 09:25	04/15/15 20:09	1
3-Nitrotoluene	0.11	U	0.53	0.061	ug/L		04/13/15 09:25	04/15/15 20:09	1
4-Nitrotoluene	0.11	U	0.53	0.094	ug/L		04/13/15 09:25	04/15/15 20:09	1
4-Amino-2,6-dinitrotoluene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
HMX	0.053	U	0.11	0.038	ug/L		04/13/15 09:25	04/15/15 20:09	1
RDX	0.053	U	0.11	0.038	ug/L		04/13/15 09:25	04/15/15 20:09	1
Nitrobenzene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
Tetryl	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
Nitroglycerin	0.53	U	0.69	0.35	ug/L		04/13/15 09:25	04/15/15 20:09	1
PETN	0.53	U	0.69	0.32	ug/L		04/13/15 09:25	04/15/15 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*91*		*79 - 111*	*04/13/15 09:25*	*04/15/15 20:09*	*1*
3,4-Dinitrotoluene	*95*		*79 - 111*	*04/13/15 09:25*	*04/24/15 02:59*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	9.0	ug/L		04/13/15 10:08	04/15/15 13:07	1
Antimony	**0.43**	**J**	2.0	0.16	ug/L		04/13/15 10:08	04/14/15 11:16	1
Arsenic	**0.93**	**J**	5.0	0.18	ug/L		04/13/15 10:08	04/14/15 11:16	1
Barium	**18**		5.0	1.1	ug/L		04/13/15 10:08	04/14/15 11:16	1
Beryllium	**0.27**	**J**	1.0	0.053	ug/L		04/13/15 10:08	04/20/15 17:32	1
Cadmium	**0.38**	**J**	2.0	0.061	ug/L		04/13/15 10:08	04/14/15 11:16	1
Calcium	**18000**		2000	240	ug/L		04/13/15 10:08	04/14/15 11:16	1
Chromium	**1.3**	**J**	6.0	0.20	ug/L		04/13/15 10:08	04/14/15 11:16	1
Cobalt	**0.28**	**J**	1.0	0.021	ug/L		04/13/15 10:08	04/14/15 11:16	1
Copper	**1.1**	**J**	4.0	0.75	ug/L		04/13/15 10:08	04/14/15 11:16	1
Iron	**30**	**J**	150	16	ug/L		04/13/15 10:08	04/14/15 11:16	1
Lead	**0.18**	**J**	1.0	0.11	ug/L		04/13/15 10:08	04/14/15 11:16	1
Magnesium	**31000**	**D**	5000	240	ug/L		04/13/15 10:08	04/15/15 13:43	5
Manganese	10	U	10	1.1	ug/L		04/13/15 10:08	04/15/15 13:07	1
Nickel	3.0	U	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:16	1
Potassium	**2700**		1000	30	ug/L		04/13/15 10:08	04/14/15 11:16	1
Selenium	**0.62**	**J**	5.0	0.25	ug/L		04/13/15 10:08	04/14/15 11:16	1
Silver	0.25	U	1.0	0.020	ug/L		04/13/15 10:08	04/14/15 11:16	1
Sodium	**43000**		1000	68	ug/L		04/13/15 10:08	04/15/15 13:07	1
Thallium	**0.22**	**J**	2.0	0.074	ug/L		04/13/15 10:08	04/14/15 11:16	1
Vanadium	**0.35**	**J**	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:16	1
Zinc	50	U	50	7.3	ug/L		04/13/15 10:08	04/14/15 11:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		04/13/15 14:00	04/14/15 11:15	1

Client Sample ID: 079SB-0385-0001-SW — Lab Sample ID: 240-49236-3

Date Collected: 04/10/15 08:45 **Matrix: Water**
Date Received: 04/10/15 14:21

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0	U	2.0	0.48	mg/L		04/21/15 06:08	04/21/15 14:53	1

Client Sample ID: 079SB-0386-0001-RB — Lab Sample ID: 240-49236-4

Date Collected: 04/10/15 08:50 **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**53**	**J**	60	9.0	ug/L		04/13/15 10:08	04/15/15 13:31	1
Antimony	**0.66**	**J**	2.0	0.16	ug/L		04/13/15 10:08	04/14/15 11:43	1
Arsenic	**0.38**	**J**	5.0	0.18	ug/L		04/13/15 10:08	04/14/15 11:43	1
Barium	4.0	U	5.0	1.1	ug/L		04/13/15 10:08	04/14/15 11:43	1
Beryllium	**0.16**	**J**	1.0	0.053	ug/L		04/13/15 10:08	04/20/15 17:51	1
Cadmium	**0.079**	**J**	2.0	0.061	ug/L		04/13/15 10:08	04/14/15 11:43	1
Calcium	1000	U	2000	240	ug/L		04/13/15 10:08	04/14/15 11:43	1
Chromium	**2.0**	**J**	6.0	0.20	ug/L		04/13/15 10:08	04/14/15 11:43	1
Cobalt	**0.13**	**J**	1.0	0.021	ug/L		04/13/15 10:08	04/14/15 11:43	1
Copper	4.0	U	4.0	0.75	ug/L		04/13/15 10:08	04/14/15 11:43	1
Iron	**57**	**J**	150	16	ug/L		04/13/15 10:08	04/14/15 11:43	1
Lead	0.50	U	1.0	0.11	ug/L		04/13/15 10:08	04/14/15 11:43	1
Magnesium	300	U	1000	48	ug/L		04/13/15 10:08	04/14/15 11:43	1
Manganese	**5.8**	**J**	10	1.1	ug/L		04/13/15 10:08	04/15/15 13:31	1
Nickel	**2.8**	**J**	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:43	1
Potassium	150	U	1000	30	ug/L		04/13/15 10:08	04/14/15 11:43	1
Selenium	0.50	U	5.0	0.25	ug/L		04/13/15 10:08	04/14/15 11:43	1
Silver	0.25	U	1.0	0.020	ug/L		04/13/15 10:08	04/14/15 11:43	1
Sodium	**840**	**J**	1000	68	ug/L		04/13/15 10:08	04/14/15 11:43	1
Thallium	**0.11**	**J**	2.0	0.074	ug/L		04/13/15 10:08	04/14/15 11:43	1
Vanadium	**0.26**	**J**	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:43	1
Zinc	50	U	50	7.3	ug/L		04/13/15 10:08	04/14/15 11:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		04/13/15 14:00	04/14/15 11:16	1

Client Sample ID: 079SB-0387-0001-RB — Lab Sample ID: 240-49236-5

Date Collected: 04/10/15 09:00 **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 12:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 12:27	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 12:27	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 12:27	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 12:27	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 12:27	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 12:27	1

Client Sample ID: 079SB-0387-0001-RB — Lab Sample ID: 240-49236-5

Date Collected: 04/10/15 09:00 **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 12:27	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 12:27	1
Acetone	1.1	J	10	0.94	ug/L			04/14/15 12:27	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 12:27	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 12:27	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:27	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 12:27	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 12:27	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 12:27	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 12:27	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 12:27	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 12:27	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/14/15 12:27	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 12:27	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 12:27	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 12:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 12:27	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 12:27	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 12:27	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 12:27	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 12:27	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:27	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*85 - 120*		*04/14/15 12:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 120*		*04/14/15 12:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/14/15 12:27*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*04/14/15 12:27*	*1*

Client Sample ID: 079SB-0388-0001-TB — Lab Sample ID: 240-49236-6

Date Collected: 04/10/15 07:30 **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:50	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 12:50	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 12:50	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 12:50	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 12:50	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 12:50	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 12:50	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 12:50	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 12:50	1

Client Sample ID: 079SB-0388-0001-TB **Lab Sample ID: 240-49236-6**
Date Collected: 04/10/15 07:30 **Matrix: Water**
Date Received: 04/10/15 14:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 12:50	1
Acetone	**6.5**	**J**	10	0.94	ug/L			04/14/15 12:50	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 12:50	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 12:50	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:50	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 12:50	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 12:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 12:50	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 12:50	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 12:50	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 12:50	1
Methylene Chloride	**3.3**		1.0	0.33	ug/L			04/14/15 12:50	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 12:50	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 12:50	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 12:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 12:50	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 12:50	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 12:50	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 12:50	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 12:50	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*85 - 120*		*04/14/15 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 120*		*04/14/15 12:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/14/15 12:50*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*04/14/15 12:50*	*1*

Default Detection Limits

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	LOQ	DL	Units	Method
1,1,1-Trichloroethane	1.0	0.44	ug/L	8260B
1,1,2,2-Tetrachloroethane	1.0	0.22	ug/L	8260B
1,1,2-Trichloroethane	1.0	0.24	ug/L	8260B
1,1-Dichloroethane	1.0	0.30	ug/L	8260B
1,1-Dichloroethene	1.0	0.45	ug/L	8260B
1,2-Dibromoethane	1.0	0.32	ug/L	8260B
1,2-Dichloroethane	1.0	0.23	ug/L	8260B
1,2-Dichloroethene, Total	2.0	0.20	ug/L	8260B
1,2-Dichloropropane	1.0	0.25	ug/L	8260B
2-Butanone (MEK)	10	0.53	ug/L	8260B
2-Hexanone	10	0.48	ug/L	8260B
4-Methyl-2-pentanone (MIBK)	10	0.99	ug/L	8260B
Acetone	10	0.94	ug/L	8260B
Benzene	1.0	0.35	ug/L	8260B
Bromochloromethane	1.0	0.50	ug/L	8260B
Bromodichloromethane	1.0	0.29	ug/L	8260B
Bromoform	1.0	0.56	ug/L	8260B
Bromomethane	1.0	0.44	ug/L	8260B
Carbon disulfide	1.0	0.38	ug/L	8260B
Carbon tetrachloride	1.0	0.43	ug/L	8260B
Chlorobenzene	1.0	0.25	ug/L	8260B
Chloroethane	1.0	0.32	ug/L	8260B
Chloroform	1.0	0.25	ug/L	8260B
Chloromethane	1.0	0.44	ug/L	8260B
cis-1,3-Dichloropropene	1.0	0.46	ug/L	8260B
Dibromochloromethane	1.0	0.43	ug/L	8260B
Ethylbenzene	1.0	0.25	ug/L	8260B
Methyl tert-butyl ether	1.0	0.20	ug/L	8260B
Methylene Chloride	1.0	0.33	ug/L	8260B
Styrene	1.0	0.45	ug/L	8260B
Tetrachloroethene	1.0	0.31	ug/L	8260B
Toluene	1.0	0.23	ug/L	8260B
trans-1,3-Dichloropropene	1.0	0.56	ug/L	8260B
Trichloroethene	1.0	0.22	ug/L	8260B
Vinyl chloride	1.0	0.29	ug/L	8260B
Xylenes, Total	2.0	0.52	ug/L	8260B

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	LOQ	DL	Units	Method
1,1-Dichloroethene	0.025	0.0095	mg/L	8260B
1,1-Dichloroethene	0.025	0.0095	mg/L	8260B
1,2-Dichloroethane	0.025	0.011	mg/L	8260B
1,2-Dichloroethane	0.025	0.011	mg/L	8260B
2-Butanone (MEK)	0.25	0.029	mg/L	8260B
2-Butanone (MEK)	0.25	0.029	mg/L	8260B
Benzene	0.025	0.0065	mg/L	8260B
Benzene	0.025	0.0065	mg/L	8260B
Carbon tetrachloride	0.025	0.0065	mg/L	8260B
Carbon tetrachloride	0.025	0.0065	mg/L	8260B
Chlorobenzene	0.025	0.0075	mg/L	8260B
Chlorobenzene	0.025	0.0075	mg/L	8260B

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	LOQ	DL	Units	Method
Chloroform	0.025	0.0080	mg/L	8260B
Chloroform	0.025	0.0080	mg/L	8260B
Tetrachloroethene	0.025	0.015	mg/L	8260B
Tetrachloroethene	0.025	0.015	mg/L	8260B
Trichloroethene	0.025	0.0085	mg/L	8260B
Trichloroethene	0.025	0.0085	mg/L	8260B
Vinyl chloride	0.025	0.011	mg/L	8260B
Vinyl chloride	0.025	0.011	mg/L	8260B

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	LOQ	DL	Units	Method
1,2,4-Trichlorobenzene	1.0	0.28	ug/L	8270C
1,2-Dichlorobenzene	1.0	0.29	ug/L	8270C
1,3-Dichlorobenzene	1.0	0.23	ug/L	8270C
1,4-Dichlorobenzene	1.0	0.34	ug/L	8270C
2,4,5-Trichlorophenol	5.0	0.30	ug/L	8270C
2,4,6-Trichlorophenol	5.0	0.24	ug/L	8270C
2,4-Dichlorophenol	2.0	0.19	ug/L	8270C
2,4-Dimethylphenol	2.0	0.25	ug/L	8270C
2,4-Dinitrophenol	5.0	0.32	ug/L	8270C
2,4-Dinitrotoluene	5.0	0.25	ug/L	8270C
2,6-Dinitrotoluene	5.0	1.1	ug/L	8270C
2-Chloronaphthalene	1.0	0.10	ug/L	8270C
2-Chlorophenol	1.0	0.29	ug/L	8270C
2-Methylnaphthalene	0.20	0.090	ug/L	8270C
2-Methylphenol	1.0	0.17	ug/L	8270C
2-Nitroaniline	2.0	0.21	ug/L	8270C
2-Nitrophenol	2.0	0.28	ug/L	8270C
3 & 4 Methylphenol	2.0	0.80	ug/L	8270C
3,3'-Dichlorobenzidine	5.0	0.37	ug/L	8270C
3-Nitroaniline	2.0	0.28	ug/L	8270C
4,6-Dinitro-2-methylphenol	5.0	2.4	ug/L	8270C
4-Bromophenyl phenyl ether	2.0	0.22	ug/L	8270C
4-Chloro-3-methylphenol	2.0	0.21	ug/L	8270C
4-Chloroaniline	2.0	0.21	ug/L	8270C
4-Chlorophenyl phenyl ether	2.0	0.30	ug/L	8270C
4-Nitroaniline	2.0	0.22	ug/L	8270C
4-Nitrophenol	5.0	0.29	ug/L	8270C
Acenaphthene	0.20	0.044	ug/L	8270C
Acenaphthylene	0.20	0.048	ug/L	8270C
Anthracene	0.20	0.088	ug/L	8270C
Benzo[a]anthracene	0.20	0.030	ug/L	8270C
Benzo[a]pyrene	0.20	0.051	ug/L	8270C
Benzo[b]fluoranthene	0.20	0.039	ug/L	8270C
Benzo[g,h,i]perylene	0.20	0.046	ug/L	8270C
Benzo[k]fluoranthene	0.20	0.045	ug/L	8270C
Benzoic acid	25	10	ug/L	8270C
Benzyl alcohol	5.0	0.38	ug/L	8270C
bis (2-chloroisopropyl) ether	1.0	0.40	ug/L	8270C
Bis(2-chloroethoxy)methane	1.0	0.32	ug/L	8270C
Bis(2-chloroethyl)ether	1.0	0.10	ug/L	8270C

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	LOQ	DL	Units	Method
Bis(2-ethylhexyl) phthalate	5.0	1.7	ug/L	8270C
Butyl benzyl phthalate	5.0	0.26	ug/L	8270C
Carbazole	1.0	0.28	ug/L	8270C
Chrysene	0.20	0.050	ug/L	8270C
Dibenz(a,h)anthracene	0.20	0.045	ug/L	8270C
Dibenzofuran	1.0	0.020	ug/L	8270C
Diethyl phthalate	2.0	0.60	ug/L	8270C
Dimethyl phthalate	2.0	0.29	ug/L	8270C
Di-n-butyl phthalate	5.0	1.7	ug/L	8270C
Di-n-octyl phthalate	2.0	0.23	ug/L	8270C
Fluoranthene	0.20	0.045	ug/L	8270C
Fluorene	0.20	0.041	ug/L	8270C
Hexachlorobenzene	0.20	0.085	ug/L	8270C
Hexachlorobutadiene	1.0	0.27	ug/L	8270C
Hexachlorocyclopentadiene	10	0.24	ug/L	8270C
Hexachloroethane	1.0	0.19	ug/L	8270C
Indeno[1,2,3-cd]pyrene	0.20	0.043	ug/L	8270C
Isophorone	1.0	0.27	ug/L	8270C
Naphthalene	0.20	0.063	ug/L	8270C
Nitrobenzene	1.0	0.040	ug/L	8270C
N-Nitrosodi-n-propylamine	1.0	0.24	ug/L	8270C
N-Nitrosodiphenylamine	1.0	0.31	ug/L	8270C
Pentachlorophenol	5.0	0.27	ug/L	8270C
Phenanthrene	0.20	0.062	ug/L	8270C
Phenol	1.0	0.60	ug/L	8270C
Pyrene	0.20	0.042	ug/L	8270C

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	LOQ	DL	Units	Method
1,4-Dichlorobenzene	0.0040	0.00034	mg/L	8270C
1,4-Dichlorobenzene	0.0040	0.00034	mg/L	8270C
2,4,5-Trichlorophenol	0.020	0.00030	mg/L	8270C
2,4,5-Trichlorophenol	0.020	0.00030	mg/L	8270C
2,4,6-Trichlorophenol	0.020	0.00024	mg/L	8270C
2,4,6-Trichlorophenol	0.020	0.00024	mg/L	8270C
2,4-Dinitrotoluene	0.020	0.00025	mg/L	8270C
2,4-Dinitrotoluene	0.020	0.00025	mg/L	8270C
2-Methylphenol	0.0040	0.00017	mg/L	8270C
2-Methylphenol	0.0040	0.00017	mg/L	8270C
3 & 4 Methylphenol	0.040	0.00080	mg/L	8270C
3 & 4 Methylphenol	0.040	0.00080	mg/L	8270C
Hexachlorobenzene	0.020	0.000085	mg/L	8270C
Hexachlorobenzene	0.020	0.000085	mg/L	8270C
Hexachlorobutadiene	0.020	0.00027	mg/L	8270C
Hexachlorobutadiene	0.020	0.00027	mg/L	8270C
Hexachloroethane	0.020	0.00019	mg/L	8270C
Hexachloroethane	0.020	0.00019	mg/L	8270C
Nitrobenzene	0.0040	0.000040	mg/L	8270C
Nitrobenzene	0.0040	0.000040	mg/L	8270C
Pentachlorophenol	0.040	0.00027	mg/L	8270C
Pentachlorophenol	0.040	0.00027	mg/L	8270C

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	LOQ	DL	Units	Method
Pyridine	0.020	0.00035	mg/L	8270C
Pyridine	0.020	0.00035	mg/L	8270C

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	LOQ	DL	Units	Method
4,4'-DDD	0.050	0.018	ug/L	8081A
4,4'-DDE	0.050	0.012	ug/L	8081A
4,4'-DDT	0.050	0.017	ug/L	8081A
Aldrin	0.050	0.013	ug/L	8081A
alpha-BHC	0.050	0.014	ug/L	8081A
alpha-Chlordane	0.050	0.012	ug/L	8081A
beta-BHC	0.050	0.018	ug/L	8081A
delta-BHC	0.050	0.029	ug/L	8081A
Dieldrin	0.050	0.013	ug/L	8081A
Endosulfan I	0.050	0.016	ug/L	8081A
Endosulfan II	0.050	0.015	ug/L	8081A
Endosulfan sulfate	0.050	0.015	ug/L	8081A
Endrin	0.050	0.013	ug/L	8081A
Endrin aldehyde	0.050	0.018	ug/L	8081A
Endrin ketone	0.050	0.016	ug/L	8081A
gamma-BHC (Lindane)	0.050	0.013	ug/L	8081A
gamma-Chlordane	0.050	0.013	ug/L	8081A
Heptachlor	0.050	0.014	ug/L	8081A
Heptachlor epoxide	0.050	0.015	ug/L	8081A
Methoxychlor	0.10	0.013	ug/L	8081A
Toxaphene	2.0	0.20	ug/L	8081A

Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Analyte	LOQ	DL	Units	Method
Chlordane (technical)	0.030	0.00014	mg/L	8081A
Chlordane (technical)	0.030	0.00014	mg/L	8081A
Endrin	0.010	0.000013	mg/L	8081A
Endrin	0.010	0.000013	mg/L	8081A
gamma-BHC (Lindane)	0.010	0.000013	mg/L	8081A
gamma-BHC (Lindane)	0.010	0.000013	mg/L	8081A
Heptachlor	0.010	0.000014	mg/L	8081A
Heptachlor	0.010	0.000014	mg/L	8081A
Heptachlor epoxide	0.010	0.000015	mg/L	8081A
Heptachlor epoxide	0.010	0.000015	mg/L	8081A
Methoxychlor	0.030	0.000013	mg/L	8081A
Methoxychlor	0.030	0.000013	mg/L	8081A
Toxaphene	0.50	0.00020	mg/L	8081A
Toxaphene	0.50	0.00020	mg/L	8081A

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	LOQ	DL	Units	Method
Aroclor-1016	0.50	0.17	ug/L	8082
Aroclor-1221	0.50	0.13	ug/L	8082
Aroclor-1232	0.50	0.16	ug/L	8082

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	LOQ	DL	Units	Method
Aroclor-1242	0.50	0.22	ug/L	8082
Aroclor-1248	0.50	0.10	ug/L	8082
Aroclor-1254	0.50	0.16	ug/L	8082
Aroclor-1260	0.50	0.17	ug/L	8082

Method: 8151A - Herbicides (GC) - TCLP

Analyte	LOQ	DL	Units	Method
2,4-D	0.50	0.0019	mg/L	8151A
2,4-D	0.50	0.0019	mg/L	8151A
Silvex (2,4,5-TP)	0.10	0.00027	mg/L	8151A
Silvex (2,4,5-TP)	0.10	0.00027	mg/L	8151A

Method: 8330 Modified - Nitroguanidine (HPLC)

Analyte	LOQ	DL	Units	Method
Nitroguanidine	20	2.4	ug/L	8330 Modified

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	LOQ	DL	Units	Method
1,3,5-Trinitrobenzene	0.10	0.031	ug/L	8330B
1,3-Dinitrobenzene	0.10	0.050	ug/L	8330B
2,4,6-Trinitrotoluene	0.10	0.050	ug/L	8330B
2,4-Dinitrotoluene	0.10	0.050	ug/L	8330B
2,6-Dinitrotoluene	0.10	0.050	ug/L	8330B
2-Amino-4,6-dinitrotoluene	0.20	0.015	ug/L	8330B
2-Nitrotoluene	0.50	0.088	ug/L	8330B
3-Nitrotoluene	0.50	0.057	ug/L	8330B
4-Amino-2,6-dinitrotoluene	0.10	0.050	ug/L	8330B
4-Nitrotoluene	0.50	0.088	ug/L	8330B
HMX	0.10	0.036	ug/L	8330B
Nitrobenzene	0.10	0.050	ug/L	8330B
Nitroglycerin	0.65	0.33	ug/L	8330B
PETN	0.65	0.30	ug/L	8330B
RDX	0.10	0.036	ug/L	8330B
Tetryl	0.10	0.050	ug/L	8330B

Method: 6010B - Metals (ICP) - TCLP

Analyte	LOQ	DL	Units	Method
Arsenic	0.50	0.0029	mg/L	6010B
Arsenic	0.50	0.0029	mg/L	6010B
Barium	10	0.0010	mg/L	6010B
Barium	10	0.0010	mg/L	6010B
Cadmium	0.10	0.00014	mg/L	6010B
Cadmium	0.10	0.00014	mg/L	6010B
Chromium	0.50	0.00055	mg/L	6010B
Chromium	0.50	0.00055	mg/L	6010B
Lead	0.50	0.0019	mg/L	6010B
Lead	0.50	0.0019	mg/L	6010B
Selenium	0.25	0.0040	mg/L	6010B

Default Detection Limits

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	LOQ	DL	Units	Method
Selenium	0.25	0.0040	mg/L	6010B
Silver	0.50	0.00092	mg/L	6010B
Silver	0.50	0.00092	mg/L	6010B

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	LOQ	DL	Units	Method
Aluminum	60	9.0	ug/L	6020
Antimony	2.0	0.16	ug/L	6020
Arsenic	5.0	0.18	ug/L	6020
Barium	5.0	1.1	ug/L	6020
Beryllium	1.0	0.053	ug/L	6020
Cadmium	2.0	0.061	ug/L	6020
Calcium	2000	240	ug/L	6020
Chromium	6.0	0.20	ug/L	6020
Cobalt	1.0	0.021	ug/L	6020
Copper	4.0	0.75	ug/L	6020
Iron	150	16	ug/L	6020
Lead	1.0	0.11	ug/L	6020
Magnesium	1000	48	ug/L	6020
Manganese	10	1.1	ug/L	6020
Nickel	5.0	0.23	ug/L	6020
Potassium	1000	30	ug/L	6020
Selenium	5.0	0.25	ug/L	6020
Silver	1.0	0.020	ug/L	6020
Sodium	1000	68	ug/L	6020
Thallium	2.0	0.074	ug/L	6020
Vanadium	5.0	0.23	ug/L	6020
Zinc	50	7.3	ug/L	6020

Method: 7470A - Mercury (CVAA)

Analyte	LOQ	DL	Units	Method
Mercury	0.20	0.090	ug/L	7470A

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	LOQ	DL	Units	Method
Hg	0.0020	0.000090	mg/L	7470A
Hg	0.0020	0.000090	mg/L	7470A

General Chemistry

Analyte	LOQ	DL	Units	Method
Flashpoint	1.00	1.00	Degrees F	1010
Flashpoint	1.00	1.00	Degrees F	1010
Cyanide, Total	0.50	0.30	mg/Kg	9012A
Cyanide, Total	0.010	0.0020	mg/L	9012A
Sulfide	30	22	mg/Kg	9034
Sulfide	3.0	0.94	mg/L	9034
Corrosivity	0.100	0.100	SU	9040C
Corrosivity	0.100	0.100	SU	9045C

Default Detection Limits

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

General Chemistry (Continued)

Analyte	LOQ	DL	Units	Method
Nitrocellulose	2.0	0.48	mg/L	WS-WC-0050

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-121)	(70-124)	(84-128)
LCS 240-177316/9	Lab Control Sample	90	84	84	94

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-177316/14	Lab Control Sample	87	88	80	91
MRL 240-177316/7	Lab Control Sample	97	91	89	94

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-121)	(70-124)	(84-128)
240-49236-1	079SB-0383-0001-IDW	85	85	77	90
LB 240-176667/1-A MB	Method Blank	89	88	82	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-176298/15	Lab Control Sample	96	101	97	96
MRL 240-176298/5	Lab Control Sample	96	100	99	99

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(85-120)	(70-120)	(75-120)	(85-115)
240-49236-3	079SB-0385-0001-SW	95	101	95	96
240-49236-5	079SB-0387-0001-RB	97	99	97	97
240-49236-6	079SB-0388-0001-TB	97	98	95	97
LCS 240-176298/4	Lab Control Sample	97	100	98	98
MB 240-176298/6	Method Blank	95	99	95	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-121)	(70-124)	(84-128)
240-49236-2	079SB-0384-0001-IDW	99	93	85	96
240-49236-2 MS	079SB-0384-0001-IDW	97	87	92	99
240-49236-2 MSD	079SB-0384-0001-IDW	95	99	88	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(29-111)	(10-110)	(40-119)	(17-117)
LCS 240-176654/9-A	Lab Control Sample	85	33	86	70	83	97
MB 240-176654/8-A	Method Blank	87	46	82	74	84	71

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(70-130)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-177779/17	Lab Control Sample	95	101	95	96	98	113
MRL 240-177779/3	Lab Control Sample	94	107	97	99	98	108

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(29-111)	(40-119)	(17-117)	(10-110)
240-49236-1	079SB-0383-0001-IDW	81	60	78	85	84	74

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(50-110)	(20-110)	(40-110)	(10-115)	(50-135)	(40-125)
240-49236-3	079SB-0385-0001-SW	74	75	69	74	53	87
LCS 240-176086/3-A	Lab Control Sample	69	70	70	67	70	83
MB 240-176086/2-A	Method Blank	78	80	75	80	80	86

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	TPH	TBP	PHL
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(29-111)	(40-119)	(17-117)	(10-110)
240-49236-2	079SB-0384-0001-IDW	85	19	72	80	96	68

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)
LCS 240-176661/6-A	Lab Control Sample	102	101	89	87
MB 240-176661/5-A	Method Blank	78	82	83	80

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-177258/31	Lab Control Sample	123	123	116	120
MRL 240-177258/49	Lab Control Sample	116	117	117	118

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)
240-49236-1	079SB-0383-0001-IDW	92 Q	93 Q	90 Q	92 Q

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(30-135)	(30-135)	(25-140)	(25-140)
240-49236-3 - RE	079SB-0385-0001-SW	35	28 Q	78	73
LCS 240-176509/3-A	Lab Control Sample	92	93	91	88
MB 240-176509/2-A	Method Blank	99	96	84	84

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)
LCS 240-177491/4-A	Lab Control Sample	108	105	72	71
MB 240-177491/3-A	Method Blank	98	98	79	78

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-176694/16	Lab Control Sample	125	120	107	109
MRL 240-176694/31	Lab Control Sample	126	123	112	112
MRL 240-178086/12	Lab Control Sample	101	101	109	113
MRL 240-178086/19	Lab Control Sample	119	115	112	115

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)
240-49236-2 - RE	079SB-0384-0001-IDW	4 Q	4 Q	35 Q	25 Q
240-49236-2 MS	079SB-0384-0001-IDW	2 Q	2 Q	34 Q	26 Q

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-135)	(40-135)
240-49236-3	079SB-0385-0001-SW	76	76	23 Q	23 Q
LCS 240-176083/4-A	Lab Control Sample	74	82	70	69
MB 240-176083/3-A	Method Blank	74	70	90	88

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-176376/10	Lab Control Sample	119	111	120	130
MRL 240-176376/4	Lab Control Sample	104	111	111	118

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(37-116)	(37-116)
LCS 240-176663/6-A	Lab Control Sample	88	90
MB 240-176663/5-A	Method Blank	94	72
MRL 240-177320/15	Lab Control Sample	147	113
MRL 240-177320/7	Lab Control Sample	103	108

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(37-116)	(37-116)
240-49236-1	079SB-0383-0001-IDW	91 Q	82 Q
240-49236-1 MS	079SB-0383-0001-IDW	81	78

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPA1	DCPA2								
Lab Sample ID	Client Sample ID	(37-116)	(37-116)								
240-49236-2	079SB-0384-0001-IDW	97 M Q	99 Q								

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		DNT1									
Lab Sample ID	Client Sample ID	(79-111)									
240-49236-3	079SB-0385-0001-SW	91									
240-49236-3	079SB-0385-0001-SW	95									
LCS 320-70962/2-A	Lab Control Sample	95									
MB 320-70962/1-A	Method Blank	92									

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-176298/6
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 09:38	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 09:38	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 09:38	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 09:38	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 09:38	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 09:38	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 09:38	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 09:38	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 09:38	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 09:38	1
Acetone	2.0	U	10	0.94	ug/L			04/14/15 09:38	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 09:38	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 09:38	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 09:38	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 09:38	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 09:38	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 09:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 09:38	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 09:38	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 09:38	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 09:38	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/14/15 09:38	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 09:38	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 09:38	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 09:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 09:38	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 09:38	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 09:38	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 09:38	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 09:38	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 09:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 09:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*85 - 120*		*04/14/15 09:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 120*		*04/14/15 09:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/14/15 09:38*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*04/14/15 09:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-176298/4
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	65 - 130
1,1,2,2-Tetrachloroethane	10.0	9.22		ug/L		92	65 - 130
1,1,2-Trichloroethane	10.0	9.39		ug/L		94	75 - 125
1,1-Dichloroethane	10.0	10.6		ug/L		106	70 - 135
1,1-Dichloroethene	10.0	10.9		ug/L		109	70 - 130
1,2-Dichloroethane	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloropropane	10.0	10.2		ug/L		102	75 - 125
2-Butanone (MEK)	20.0	19.4		ug/L		97	30 - 150
2-Hexanone	20.0	17.8		ug/L		89	55 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/L		97	60 - 135
Acetone	20.0	16.4		ug/L		82	40 - 140
Benzene	10.0	10.2		ug/L		102	80 - 120
Bromoform	10.0	9.41		ug/L		94	70 - 130
Bromomethane	10.0	8.72		ug/L		87	30 - 145
Carbon disulfide	10.0	11.3		ug/L		113	35 - 160
Carbon tetrachloride	10.0	11.2		ug/L		112	65 - 140
Chlorobenzene	10.0	9.48		ug/L		95	80 - 120
Chloromethane	10.0	10.3		ug/L		103	40 - 125
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	70 - 130
Dibromochloromethane	10.0	9.75		ug/L		97	60 - 135
Bromodichloromethane	10.0	9.94		ug/L		99	75 - 120
Ethylbenzene	10.0	9.93		ug/L		99	75 - 125
Methyl tert-butyl ether	10.0	10.2		ug/L		102	65 - 125
Methylene Chloride	10.0	10.1		ug/L		101	55 - 140
Styrene	10.0	10.1		ug/L		101	65 - 135
Tetrachloroethene	10.0	10.0		ug/L		100	45 - 150
Toluene	10.0	9.79		ug/L		98	75 - 120
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	55 - 140
Trichloroethene	10.0	10.5		ug/L		105	70 - 125
Vinyl chloride	10.0	9.95		ug/L		100	50 - 145
Xylenes, Total	20.0	19.8		ug/L		99	75 - 130
Chloroform	10.0	10.3		ug/L		103	65 - 135
Bromochloromethane	10.0	10.2		ug/L		102	65 - 130
Chloroethane	10.0	9.31		ug/L		93	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*85 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 120*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane (Surr)	*98*		*85 - 115*

Lab Sample ID: MRL 240-176298/15
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00100	0.000982	J	ng/uL		98	70 - 130
1,1,2,2-Tetrachloroethane	0.00100	0.000945	J	ng/uL		95	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-176298/15
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	0.00100	0.000931	J	ng/uL		93	70 - 130
1,1-Dichloroethane	0.00100	0.000968	J	ng/uL		97	70 - 130
1,1-Dichloroethene	0.00100	0.000965	J	ng/uL		97	70 - 130
1,2-Dichloroethane	0.00100	0.000984	J	ng/uL		98	70 - 130
1,2-Dichloropropane	0.00100	0.000928	J	ng/uL		93	70 - 130
2-Butanone (MEK)	0.0100	0.00811	J	ng/uL		81	70 - 130
2-Hexanone	0.0100	0.00817	J	ng/uL		82	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00909	J	ng/uL		91	70 - 130
Acetone	0.0100	0.00706	J	ng/uL		71	70 - 130
Benzene	0.00100	0.000970	J	ng/uL		97	70 - 130
Bromoform	0.00100	0.000830	J	ng/uL		83	70 - 130
Bromomethane	0.00100	0.00136	^	ng/uL		136	70 - 130
Carbon disulfide	0.00100	0.000787	J	ng/uL		79	70 - 130
Carbon tetrachloride	0.00100	0.000935	J	ng/uL		94	70 - 130
Chlorobenzene	0.00100	0.000960	J	ng/uL		96	70 - 130
Chloromethane	0.00100	0.00130		ng/uL		130	70 - 130
cis-1,3-Dichloropropene	0.00100	0.000825	J	ng/uL		83	70 - 130
Dibromochloromethane	0.00100	0.000768	J	ng/uL		77	70 - 130
Bromodichloromethane	0.00100	0.000958	J	ng/uL		96	70 - 130
Ethylbenzene	0.00100	0.00101		ng/uL		101	70 - 130
Methyl tert-butyl ether	0.00100	0.000891	J	ng/uL		89	70 - 130
Methylene Chloride	0.00100	0.000972	J	ng/uL		97	70 - 130
Styrene	0.00100	0.000846	J	ng/uL		85	70 - 130
Tetrachloroethene	0.00100	0.00102		ng/uL		102	70 - 130
Toluene	0.00100	0.000947	J	ng/uL		95	70 - 130
trans-1,3-Dichloropropene	0.00100	0.000794	J	ng/uL		79	70 - 130
Trichloroethene	0.00100	0.000992	J	ng/uL		99	70 - 130
Vinyl chloride	0.00100	0.00130		ng/uL		130	70 - 130
Xylenes, Total	0.00200	0.00189	J	ng/uL		95	70 - 130
Chloroform	0.00100	0.000964	J	ng/uL		96	70 - 130
Bromochloromethane	0.00100	0.000981	J	ng/uL		98	70 - 130
Chloroethane	0.00100	0.00131	^	ng/uL		131	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 150*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*
Dibromofluoromethane (Surr)	*96*		*50 - 150*

Lab Sample ID: MRL 240-176298/5
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00100	0.00109		ng/uL		109	70 - 130
1,1,2,2-Tetrachloroethane	0.00100	0.000903	J	ng/uL		90	70 - 130
1,1,2-Trichloroethane	0.00100	0.000924	J	ng/uL		92	70 - 130
1,1-Dichloroethane	0.00100	0.00104		ng/uL		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-176298/5
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00100	0.00100		ng/uL		100	70 - 130
1,2-Dichloroethane	0.00100	0.000987	J	ng/uL		99	70 - 130
1,2-Dichloropropane	0.00100	0.00102		ng/uL		102	70 - 130
2-Butanone (MEK)	0.0100	0.00892	J	ng/uL		89	70 - 130
2-Hexanone	0.0100	0.00881	J	ng/uL		88	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00924	J	ng/uL		92	70 - 130
Acetone	0.0100	0.00855	J	ng/uL		85	70 - 130
Benzene	0.00100	0.00102		ng/uL		102	70 - 130
Bromoform	0.00100	0.000768	J	ng/uL		77	70 - 130
Bromomethane	0.00100	0.00143	^	ng/uL		143	70 - 130
Carbon disulfide	0.00100	0.000940	J	ng/uL		94	70 - 130
Carbon tetrachloride	0.00100	0.000976	J	ng/uL		98	70 - 130
Chlorobenzene	0.00100	0.000987	J	ng/uL		99	70 - 130
Chloromethane	0.00100	0.00138	^	ng/uL		138	70 - 130
cis-1,3-Dichloropropene	0.00100	0.000980	J	ng/uL		98	70 - 130
Dibromochloromethane	0.00100	0.000862	J	ng/uL		86	70 - 130
Bromodichloromethane	0.00100	0.000930	J	ng/uL		93	70 - 130
Ethylbenzene	0.00100	0.000988	J	ng/uL		99	70 - 130
Methyl tert-butyl ether	0.00100	0.00101		ng/uL		101	70 - 130
Methylene Chloride	0.00100	0.000888	J	ng/uL		89	70 - 130
Styrene	0.00100	0.000929	J	ng/uL		93	70 - 130
Tetrachloroethene	0.00100	0.00110		ng/uL		110	70 - 130
Toluene	0.00100	0.000982	J	ng/uL		98	70 - 130
trans-1,3-Dichloropropene	0.00100	0.000921	J	ng/uL		92	70 - 130
Trichloroethene	0.00100	0.00105		ng/uL		105	70 - 130
Vinyl chloride	0.00100	0.00137	^	ng/uL		137	70 - 130
Xylenes, Total	0.00200	0.00187	J	ng/uL		93	70 - 130
Chloroform	0.00100	0.000987	J	ng/uL		99	70 - 130
Bromochloromethane	0.00100	0.00104		ng/uL		104	70 - 130
Chloroethane	0.00100	0.00133	^	ng/uL		133	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 150*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*
Dibromofluoromethane (Surr)	*99*		*50 - 150*

Lab Sample ID: LCS 240-177316/9
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.500	0.511		mg/L		102	71 - 133
1,2-Dichloroethane	0.500	0.464		mg/L		93	80 - 120
2-Butanone (MEK)	1.00	0.859		mg/L		86	49 - 120
Benzene	0.500	0.485		mg/L		97	80 - 120
Carbon tetrachloride	0.500	0.402		mg/L		80	54 - 122
Chlorobenzene	0.500	0.483		mg/L		97	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-177316/9
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	0.500	0.463		mg/L		93	79 - 134
Trichloroethene	0.500	0.531		mg/L		106	78 - 130
Vinyl chloride	0.500	0.493		mg/L		99	56 - 120
Chloroform	0.500	0.481		mg/L		96	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 121*
4-Bromofluorobenzene (Surr)	*84*		*70 - 124*
Dibromofluoromethane (Surr)	*94*		*84 - 128*

Lab Sample ID: MRL 240-177316/14
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00100	0.00102		ng/uL		102	70 - 130
1,2-Dichloroethane	0.00100	0.00105		ng/uL		105	70 - 130
2-Butanone (MEK)	0.0100	0.00805	J	ng/uL		80	70 - 130
Benzene	0.00100	0.00105		ng/uL		105	70 - 130
Carbon tetrachloride	0.00100	0.00105		ng/uL		105	70 - 130
Chlorobenzene	0.00100	0.00113		ng/uL		113	70 - 130
Tetrachloroethene	0.00100	0.00135	^	ng/uL		135	70 - 130
Trichloroethene	0.00100	0.00110		ng/uL		110	70 - 130
Vinyl chloride	0.00100	0.000875	J	ng/uL		88	70 - 130
Chloroform	0.00100	0.00114		ng/uL		114	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*87*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*88*		*50 - 150*
4-Bromofluorobenzene (Surr)	*80*		*50 - 150*
Dibromofluoromethane (Surr)	*91*		*50 - 150*

Lab Sample ID: MRL 240-177316/7
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00100	0.000978	J	ng/uL		98	70 - 130
1,2-Dichloroethane	0.00100	0.00118		ng/uL		118	70 - 130
2-Butanone (MEK)	0.0100	0.00738	J	ng/uL		74	70 - 130
Benzene	0.00100	0.00104		ng/uL		104	70 - 130
Carbon tetrachloride	0.00100	0.000795	J	ng/uL		80	70 - 130
Chlorobenzene	0.00100	0.00111		ng/uL		111	70 - 130
Tetrachloroethene	0.00100	0.00106		ng/uL		106	70 - 130
Trichloroethene	0.00100	0.00118		ng/uL		118	70 - 130
Vinyl chloride	0.00100	0.00127		ng/uL		127	70 - 130
Chloroform	0.00100	0.00110		ng/uL		110	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177316/7
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Toluene-d8 (Surr)	*97*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*91*		*50 - 150*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*
Dibromofluoromethane (Surr)	*94*		*50 - 150*

Lab Sample ID: LB 240-176667/1-A MB
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.013	U	0.025	0.0095	mg/L			04/21/15 18:23	1
1,2-Dichloroethane	0.013	U	0.025	0.011	mg/L			04/21/15 18:23	1
2-Butanone (MEK)	0.025	U	0.25	0.029	mg/L			04/21/15 18:23	1
Benzene	0.013	U	0.025	0.0065	mg/L			04/21/15 18:23	1
Carbon tetrachloride	0.013	U	0.025	0.0065	mg/L			04/21/15 18:23	1
Chlorobenzene	0.013	U	0.025	0.0075	mg/L			04/21/15 18:23	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/21/15 18:23	1
Trichloroethene	0.013	U	0.025	0.0085	mg/L			04/21/15 18:23	1
Vinyl chloride	0.013	U	0.025	0.011	mg/L			04/21/15 18:23	1
Chloroform	0.013	U	0.025	0.0080	mg/L			04/21/15 18:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*89*		*80 - 120*		*04/21/15 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 121*		*04/21/15 18:23*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 124*		*04/21/15 18:23*	*1*
Dibromofluoromethane (Surr)	*95*		*84 - 128*		*04/21/15 18:23*	*1*

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 177316

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.013	U	0.500	0.574		mg/L		115	67 - 139
1,2-Dichloroethane	0.013	U	0.500	0.455		mg/L		91	80 - 120
2-Butanone (MEK)	0.025	U	1.00	0.923		mg/L		92	49 - 120
Benzene	0.013	U	0.500	0.459		mg/L		92	80 - 120
Carbon tetrachloride	0.013	U	0.500	0.338		mg/L		68	60 - 120
Chlorobenzene	0.013	U	0.500	0.467		mg/L		93	80 - 120
Tetrachloroethene	0.025	U	0.500	0.477		mg/L		95	74 - 138
Trichloroethene	0.013	U	0.500	0.515		mg/L		103	75 - 134
Vinyl chloride	0.013	U	0.500	0.508		mg/L		102	51 - 120
Chloroform	0.013	U	0.500	0.470		mg/L		94	80 - 124

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 121*
4-Bromofluorobenzene (Surr)	*92*		*70 - 124*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 177316

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*99*		*84 - 128*

Lab Sample ID: 240-49236-2 MSD
Matrix: Water
Analysis Batch: 177316

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	0.013	U	0.500	0.660		mg/L		132	67 - 139	14	30
1,2-Dichloroethane	0.013	U	0.500	0.471		mg/L		94	80 - 120	4	30
2-Butanone (MEK)	0.025	U	1.00	0.990		mg/L		99	49 - 120	7	30
Benzene	0.013	U	0.500	0.489		mg/L		98	80 - 120	6	30
Carbon tetrachloride	0.013	U	0.500	0.380		mg/L		76	60 - 120	12	30
Chlorobenzene	0.013	U	0.500	0.494		mg/L		99	80 - 120	6	30
Tetrachloroethene	0.025	U	0.500	0.480		mg/L		96	74 - 138	1	30
Trichloroethene	0.013	U	0.500	0.547		mg/L		109	75 - 134	6	30
Vinyl chloride	0.013	U	0.500	0.541		mg/L		108	51 - 120	6	30
Chloroform	0.013	U	0.500	0.501		mg/L		100	80 - 124	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 121*
4-Bromofluorobenzene (Surr)	*88*		*70 - 124*
Dibromofluoromethane (Surr)	*98*		*84 - 128*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-176086/2-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176086

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10	U	0.20	0.044	ug/L		04/13/15 06:18	04/24/15 09:23	1
Acenaphthylene	0.10	U	0.20	0.048	ug/L		04/13/15 06:18	04/24/15 09:23	1
Anthracene	0.10	U	0.20	0.088	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[a]anthracene	0.10	U	0.20	0.030	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[a]pyrene	0.10	U	0.20	0.051	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[b]fluoranthene	0.10	U	0.20	0.039	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[g,h,i]perylene	0.10	U	0.20	0.046	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzoic acid	20	U	25	10	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[k]fluoranthene	0.10	U	0.20	0.045	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzyl alcohol	0.50	U	5.0	0.38	ug/L		04/13/15 06:18	04/24/15 09:23	1
Bis(2-chloroethoxy)methane	0.50	U	1.0	0.32	ug/L		04/13/15 06:18	04/24/15 09:23	1
Bis(2-chloroethyl)ether	0.10	U	1.0	0.10	ug/L		04/13/15 06:18	04/24/15 09:23	1
bis (2-chloroisopropyl) ether	0.50	U	1.0	0.40	ug/L		04/13/15 06:18	04/24/15 09:23	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	1.7	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Bromophenyl phenyl ether	0.50	U	2.0	0.22	ug/L		04/13/15 06:18	04/24/15 09:23	1
Butyl benzyl phthalate	0.50	U	5.0	0.26	ug/L		04/13/15 06:18	04/24/15 09:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-176086/2-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176086

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	0.50	U	1.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Chloroaniline	0.50	U	2.0	0.21	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Chloro-3-methylphenol	0.50	U	2.0	0.21	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Chloronaphthalene	0.50	U	1.0	0.10	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Chlorophenol	0.50	U	1.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Chlorophenyl phenyl ether	0.50	U	2.0	0.30	ug/L		04/13/15 06:18	04/24/15 09:23	1
Chrysene	0.10	U	0.20	0.050	ug/L		04/13/15 06:18	04/24/15 09:23	1
Dibenz(a,h)anthracene	0.10	U	0.20	0.045	ug/L		04/13/15 06:18	04/24/15 09:23	1
Dibenzofuran	0.10	U	1.0	0.020	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,2-Dichlorobenzene	0.50	U	1.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,3-Dichlorobenzene	0.50	U	1.0	0.23	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,4-Dichlorobenzene	0.50	U	1.0	0.34	ug/L		04/13/15 06:18	04/24/15 09:23	1
3,3'-Dichlorobenzidine	1.0	U	5.0	0.37	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dichlorophenol	0.50	U	2.0	0.19	ug/L		04/13/15 06:18	04/24/15 09:23	1
Diethyl phthalate	1.0	U	2.0	0.60	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dimethylphenol	0.50	U	2.0	0.25	ug/L		04/13/15 06:18	04/24/15 09:23	1
Dimethyl phthalate	0.50	U	2.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
Di-n-butyl phthalate	5.0	U	5.0	1.7	ug/L		04/13/15 06:18	04/24/15 09:23	1
4,6-Dinitro-2-methylphenol	4.0	U	5.0	2.4	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dinitrophenol	1.0	U	5.0	0.32	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dinitrotoluene	0.50	U	5.0	0.25	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,6-Dinitrotoluene	5.0	U	5.0	1.1	ug/L		04/13/15 06:18	04/24/15 09:23	1
Di-n-octyl phthalate	0.50	U	2.0	0.23	ug/L		04/13/15 06:18	04/24/15 09:23	1
Fluoranthene	0.10	U	0.20	0.045	ug/L		04/13/15 06:18	04/24/15 09:23	1
Fluorene	0.10	U	0.20	0.041	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachlorobenzene	0.10	U	0.20	0.085	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachlorobutadiene	0.50	U	1.0	0.27	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachlorocyclopentadiene	0.50	U	10	0.24	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachloroethane	0.50	U	1.0	0.19	ug/L		04/13/15 06:18	04/24/15 09:23	1
Indeno[1,2,3-cd]pyrene	0.10	U	0.20	0.043	ug/L		04/13/15 06:18	04/24/15 09:23	1
Isophorone	0.50	U	1.0	0.27	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Methylnaphthalene	0.10	U	0.20	0.090	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Methylphenol	0.50	U	1.0	0.17	ug/L		04/13/15 06:18	04/24/15 09:23	1
3 & 4 Methylphenol	1.0	U	2.0	0.80	ug/L		04/13/15 06:18	04/24/15 09:23	1
Naphthalene	0.10	U	0.20	0.063	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Nitroaniline	0.50	U	2.0	0.21	ug/L		04/13/15 06:18	04/24/15 09:23	1
3-Nitroaniline	0.50	U	2.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Nitroaniline	0.50	U	2.0	0.22	ug/L		04/13/15 06:18	04/24/15 09:23	1
Nitrobenzene	0.10	U	1.0	0.040	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Nitrophenol	0.50	U	2.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Nitrophenol	4.0	U	5.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
N-Nitrosodi-n-propylamine	0.50	U	1.0	0.24	ug/L		04/13/15 06:18	04/24/15 09:23	1
N-Nitrosodiphenylamine	0.50	U	1.0	0.31	ug/L		04/13/15 06:18	04/24/15 09:23	1
Pentachlorophenol	1.0	U	5.0	0.27	ug/L		04/13/15 06:18	04/24/15 09:23	1
Phenanthrene	0.10	U	0.20	0.062	ug/L		04/13/15 06:18	04/24/15 09:23	1
Phenol	1.0	U	1.0	0.60	ug/L		04/13/15 06:18	04/24/15 09:23	1
Pyrene	0.10	U	0.20	0.042	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,2,4-Trichlorobenzene	0.50	U	1.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-176086/2-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176086

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	0.50	U	5.0	0.30	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4,6-Trichlorophenol	0.50	U	5.0	0.24	ug/L		04/13/15 06:18	04/24/15 09:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*50 - 110*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
2-Fluorophenol (Surr)	*80*		*20 - 110*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
Nitrobenzene-d5 (Surr)	*75*		*40 - 110*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
Phenol-d5 (Surr)	*80*		*10 - 115*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
Terphenyl-d14 (Surr)	*80*		*50 - 135*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*40 - 125*	*04/13/15 06:18*	*04/24/15 09:23*	*1*

Lab Sample ID: LCS 240-176086/3-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	14.7		ug/L		73	45 - 110
Acenaphthylene	20.0	14.1		ug/L		70	50 - 105
Anthracene	20.0	15.1		ug/L		75	55 - 110
Benzo[a]anthracene	20.0	14.6		ug/L		73	55 - 110
Benzo[a]pyrene	20.0	13.4		ug/L		67	55 - 110
Benzo[b]fluoranthene	20.0	14.7		ug/L		74	45 - 120
Benzo[g,h,i]perylene	20.0	14.2		ug/L		71	40 - 125
Benzoic acid	40.0	13.5	J M	ug/L		34	0 - 125
Benzo[k]fluoranthene	20.0	15.3		ug/L		77	45 - 125
Benzyl alcohol	20.0	13.5		ug/L		67	30 - 110
Bis(2-chloroethoxy)methane	20.0	15.5		ug/L		77	45 - 105
Bis(2-chloroethyl)ether	20.0	14.5		ug/L		72	35 - 110
bis (2-chloroisopropyl) ether	20.0	15.5		ug/L		78	25 - 130
Bis(2-ethylhexyl) phthalate	20.0	14.6		ug/L		73	40 - 125
4-Bromophenyl phenyl ether	20.0	17.1		ug/L		86	50 - 115
Butyl benzyl phthalate	20.0	15.1		ug/L		76	45 - 115
Carbazole	20.0	16.5		ug/L		83	50 - 115
4-Chloroaniline	20.0	13.8		ug/L		69	15 - 110
4-Chloro-3-methylphenol	20.0	15.3		ug/L		77	45 - 110
2-Chloronaphthalene	20.0	14.2		ug/L		71	50 - 105
2-Chlorophenol	20.0	14.2		ug/L		71	35 - 105
4-Chlorophenyl phenyl ether	20.0	15.4		ug/L		77	50 - 110
Chrysene	20.0	15.8		ug/L		79	55 - 110
Dibenz(a,h)anthracene	20.0	14.5		ug/L		73	40 - 125
Dibenzofuran	20.0	15.1		ug/L		75	55 - 105
1,2-Dichlorobenzene	20.0	13.6		ug/L		68	35 - 100
1,3-Dichlorobenzene	20.0	12.9		ug/L		64	30 - 100
1,4-Dichlorobenzene	20.0	13.4		ug/L		67	30 - 100
3,3'-Dichlorobenzidine	40.0	29.7		ug/L		74	20 - 110
2,4-Dichlorophenol	20.0	14.9		ug/L		74	50 - 105
Diethyl phthalate	20.0	16.0		ug/L		80	40 - 120
2,4-Dimethylphenol	20.0	11.6		ug/L		58	30 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-176086/3-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	20.0	16.1		ug/L		81	25 - 125
Di-n-butyl phthalate	20.0	18.0		ug/L		90	55 - 115
4,6-Dinitro-2-methylphenol	40.0	29.2		ug/L		73	40 - 130
2,4-Dinitrophenol	40.0	26.0		ug/L		65	15 - 140
2,4-Dinitrotoluene	20.0	16.2		ug/L		81	50 - 120
2,6-Dinitrotoluene	20.0	15.6		ug/L		78	50 - 115
Di-n-octyl phthalate	20.0	13.7		ug/L		69	35 - 135
Fluoranthene	20.0	16.8		ug/L		84	55 - 115
Fluorene	20.0	15.0		ug/L		75	50 - 110
Hexachlorobenzene	20.0	16.1		ug/L		81	50 - 110
Hexachlorobutadiene	20.0	12.9		ug/L		65	25 - 105
Hexachlorocyclopentadiene	20.0	0.839	J	ug/L		4	4 - 110
Hexachloroethane	20.0	13.4		ug/L		67	30 - 95
Indeno[1,2,3-cd]pyrene	20.0	14.0		ug/L		70	45 - 125
Isophorone	20.0	14.5		ug/L		72	50 - 110
2-Methylnaphthalene	20.0	13.8		ug/L		69	45 - 105
2-Methylphenol	20.0	13.7		ug/L		68	40 - 110
3 & 4 Methylphenol	20.0	14.1		ug/L		71	30 - 110
Naphthalene	20.0	13.8		ug/L		69	40 - 100
2-Nitroaniline	20.0	15.7		ug/L		78	50 - 115
3-Nitroaniline	20.0	16.9		ug/L		84	20 - 125
4-Nitroaniline	20.0	16.4		ug/L		82	35 - 120
Nitrobenzene	20.0	14.4		ug/L		72	45 - 110
2-Nitrophenol	20.0	14.6		ug/L		73	40 - 115
4-Nitrophenol	40.0	32.2		ug/L		80	0 - 125
N-Nitrosodi-n-propylamine	20.0	14.5		ug/L		72	35 - 130
N-Nitrosodiphenylamine	40.0	33.0		ug/L		83	50 - 110
Pentachlorophenol	40.0	28.5		ug/L		71	40 - 115
Phenanthrene	20.0	15.2		ug/L		76	50 - 115
Phenol	20.0	14.2		ug/L		71	0 - 115
Pyrene	20.0	15.6		ug/L		78	50 - 130
1,2,4-Trichlorobenzene	20.0	13.5		ug/L		68	35 - 105
2,4,5-Trichlorophenol	20.0	15.3		ug/L		77	50 - 110
2,4,6-Trichlorophenol	20.0	14.5		ug/L		73	50 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*50 - 110*
2-Fluorophenol (Surr)	*70*		*20 - 110*
Nitrobenzene-d5 (Surr)	*70*		*40 - 110*
Phenol-d5 (Surr)	*67*		*10 - 115*
Terphenyl-d14 (Surr)	*70*		*50 - 135*
2,4,6-Tribromophenol (Surr)	*83*		*40 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-176654/8-A
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176654

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	0.00050	U	0.020	0.00035	mg/L		04/16/15 08:13	04/24/15 10:13	1
1,4-Dichlorobenzene	0.00050	U	0.0040	0.00034	mg/L		04/16/15 08:13	04/24/15 10:13	1
2,4-Dinitrotoluene	0.00050	U	0.020	0.00025	mg/L		04/16/15 08:13	04/24/15 10:13	1
Hexachlorobenzene	0.00010	U	0.020	0.000085	mg/L		04/16/15 08:13	04/24/15 10:13	1
Hexachlorobutadiene	0.00050	U	0.020	0.00027	mg/L		04/16/15 08:13	04/24/15 10:13	1
Hexachloroethane	0.00050	U	0.020	0.00019	mg/L		04/16/15 08:13	04/24/15 10:13	1
2-Methylphenol	0.00050	U	0.0040	0.00017	mg/L		04/16/15 08:13	04/24/15 10:13	1
3 & 4 Methylphenol	0.0010	U	0.040	0.00080	mg/L		04/16/15 08:13	04/24/15 10:13	1
Nitrobenzene	0.00010	U	0.0040	0.000040	mg/L		04/16/15 08:13	04/24/15 10:13	1
Pentachlorophenol	0.0010	U	0.040	0.00027	mg/L		04/16/15 08:13	04/24/15 10:13	1
2,4,5-Trichlorophenol	0.00050	U	0.020	0.00030	mg/L		04/16/15 08:13	04/24/15 10:13	1
2,4,6-Trichlorophenol	0.00050	U	0.020	0.00024	mg/L		04/16/15 08:13	04/24/15 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*22 - 110*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 110*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
Nitrobenzene-d5 (Surr)	*82*		*29 - 111*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
Phenol-d5 (Surr)	*74*		*10 - 110*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
Terphenyl-d14 (Surr)	*84*		*40 - 119*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*17 - 117*	*04/16/15 08:13*	*04/24/15 10:13*	*1*

Lab Sample ID: LCS 240-176654/9-A
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	0.0800	0.0583		mg/L		73	10 - 110
1,4-Dichlorobenzene	0.0800	0.0633		mg/L		79	16 - 110
2,4-Dinitrotoluene	0.0800	0.0758		mg/L		95	45 - 126
Hexachlorobenzene	0.0800	0.0713		mg/L		89	47 - 116
Hexachlorobutadiene	0.0800	0.0619		mg/L		77	10 - 110
Hexachloroethane	0.0800	0.0620		mg/L		78	10 - 110
2-Methylphenol	0.0800	0.0627		mg/L		78	24 - 110
3 & 4 Methylphenol	0.0800	0.0651		mg/L		81	27 - 110
Nitrobenzene	0.0800	0.0686		mg/L		86	35 - 117
Pentachlorophenol	0.160	0.115		mg/L		72	12 - 110
2,4,5-Trichlorophenol	0.0800	0.0674		mg/L		84	35 - 111
2,4,6-Trichlorophenol	0.0800	0.0675		mg/L		84	32 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*22 - 110*
2-Fluorophenol (Surr)	*33*		*10 - 110*
Nitrobenzene-d5 (Surr)	*86*		*29 - 111*
Phenol-d5 (Surr)	*70*		*10 - 110*
Terphenyl-d14 (Surr)	*83*		*40 - 119*
2,4,6-Tribromophenol (Surr)	*97*		*17 - 117*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/17
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	5.00	4.72		ng/uL		94	70 - 130
Acenaphthylene	5.00	4.86		ng/uL		97	70 - 130
Anthracene	5.00	4.94		ng/uL		99	70 - 130
Benzo[a]anthracene	5.00	4.85		ng/uL		97	70 - 130
Benzo[a]pyrene	5.00	4.94		ng/uL		99	70 - 130
Benzo[b]fluoranthene	5.00	4.72		ng/uL		94	70 - 130
Benzo[g,h,i]perylene	5.00	4.79		ng/uL		96	70 - 130
Benzoic acid	10.0	8.79	M	ng/uL		88	70 - 130
Benzo[k]fluoranthene	5.00	5.00		ng/uL		100	70 - 130
Benzyl alcohol	5.00	4.61		ng/uL		92	70 - 130
Bis(2-chloroethoxy)methane	5.00	5.01		ng/uL		100	70 - 130
Bis(2-chloroethyl)ether	5.00	4.69		ng/uL		94	70 - 130
bis (2-chloroisopropyl) ether	5.00	5.11		ng/uL		102	70 - 130
Bis(2-ethylhexyl) phthalate	5.00	5.02		ng/uL		100	70 - 130
4-Bromophenyl phenyl ether	5.00	5.21		ng/uL		104	70 - 130
Butyl benzyl phthalate	5.00	4.89		ng/uL		98	70 - 130
Carbazole	5.00	4.94		ng/uL		99	70 - 130
4-Chloroaniline	5.00	5.20		ng/uL		104	70 - 130
Pyridine	5.00	4.55		ng/uL		91	70 - 130
4-Chloro-3-methylphenol	5.00	5.15		ng/uL		103	70 - 130
2-Chloronaphthalene	5.00	4.77		ng/uL		95	70 - 130
2-Chlorophenol	5.00	4.74		ng/uL		95	70 - 130
4-Chlorophenyl phenyl ether	5.00	4.89		ng/uL		98	70 - 130
Chrysene	5.00	4.88		ng/uL		98	70 - 130
Dibenz(a,h)anthracene	5.00	4.93		ng/uL		99	70 - 130
Dibenzofuran	5.00	4.99		ng/uL		100	70 - 130
1,2-Dichlorobenzene	5.00	4.99		ng/uL		100	70 - 130
1,3-Dichlorobenzene	5.00	4.83		ng/uL		97	70 - 130
1,4-Dichlorobenzene	5.00	4.85		ng/uL		97	70 - 130
3,3'-Dichlorobenzidine	10.0	9.15		ng/uL		91	70 - 130
2,4-Dichlorophenol	5.00	5.08		ng/uL		102	70 - 130
Diethyl phthalate	5.00	5.09		ng/uL		102	70 - 130
2,4-Dimethylphenol	5.00	5.00		ng/uL		100	70 - 130
Dimethyl phthalate	5.00	5.13		ng/uL		103	70 - 130
Di-n-butyl phthalate	5.00	5.03		ng/uL		101	70 - 130
4,6-Dinitro-2-methylphenol	10.0	4.42	^	ng/uL		44	70 - 130
2,4-Dinitrophenol	10.0	4.84	^	ng/uL		48	70 - 130
2,4-Dinitrotoluene	5.00	5.28		ng/uL		106	70 - 130
2,6-Dinitrotoluene	5.00	4.89		ng/uL		98	70 - 130
Di-n-octyl phthalate	5.00	5.02		ng/uL		100	70 - 130
Fluoranthene	5.00	4.93		ng/uL		99	70 - 130
Fluorene	5.00	4.98		ng/uL		100	70 - 130
Hexachlorobenzene	5.00	4.80		ng/uL		96	70 - 130
Hexachlorobutadiene	5.00	4.95		ng/uL		99	70 - 130
Hexachlorocyclopentadiene	5.00	2.69	^	ng/uL		54	70 - 130
Hexachloroethane	5.00	4.93		ng/uL		99	70 - 130
Indeno[1,2,3-cd]pyrene	5.00	4.96		ng/uL		99	70 - 130
Isophorone	5.00	4.99		ng/uL		100	70 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/17
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	5.00	4.67		ng/uL		93	70 - 130
2-Methylphenol	5.00	4.98		ng/uL		100	70 - 130
3 & 4 Methylphenol	5.00	4.87		ng/uL		97	70 - 130
Naphthalene	5.00	4.87		ng/uL		97	70 - 130
2-Nitroaniline	5.00	5.10		ng/uL		102	70 - 130
3-Nitroaniline	5.00	5.26		ng/uL		105	70 - 130
4-Nitroaniline	5.00	4.71		ng/uL		94	70 - 130
Nitrobenzene	5.00	4.74		ng/uL		95	70 - 130
2-Nitrophenol	5.00	4.89		ng/uL		98	70 - 130
4-Nitrophenol	10.0	9.69		ng/uL		97	70 - 130
N-Nitrosodi-n-propylamine	5.00	4.92		ng/uL		98	70 - 130
N-Nitrosodiphenylamine	10.0	10.4		ng/uL		104	70 - 130
Pentachlorophenol	10.0	8.76		ng/uL		88	70 - 130
Phenanthrene	5.00	4.87		ng/uL		97	70 - 130
Phenol	5.00	4.91		ng/uL		98	70 - 130
Pyrene	5.00	4.90		ng/uL		98	70 - 130
1,2,4-Trichlorobenzene	5.00	4.91		ng/uL		98	70 - 130
2,4,5-Trichlorophenol	5.00	4.94		ng/uL		99	70 - 130
2,4,6-Trichlorophenol	5.00	5.14		ng/uL		103	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*95*		*70 - 130*
2-Fluorophenol (Surr)	*101*		*50 - 150*
Nitrobenzene-d5 (Surr)	*95*		*50 - 150*
Phenol-d5 (Surr)	*96*		*50 - 150*
Terphenyl-d14 (Surr)	*98*		*50 - 150*
2,4,6-Tribromophenol (Surr)	*113*		*50 - 150*

Lab Sample ID: MRL 240-177779/3
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	5.00	4.82		ng/uL		96	70 - 130
Acenaphthylene	5.00	4.81		ng/uL		96	70 - 130
Anthracene	5.00	4.99		ng/uL		100	70 - 130
Benzo[a]anthracene	5.00	4.92		ng/uL		98	70 - 130
Benzo[a]pyrene	5.00	4.91		ng/uL		98	70 - 130
Benzo[b]fluoranthene	5.00	4.62		ng/uL		92	70 - 130
Benzo[g,h,i]perylene	5.00	4.94		ng/uL		99	70 - 130
Benzoic acid	10.0	9.82		ng/uL		98	70 - 130
Benzo[k]fluoranthene	5.00	5.27		ng/uL		105	70 - 130
Benzyl alcohol	5.00	5.12		ng/uL		102	70 - 130
Bis(2-chloroethoxy)methane	5.00	5.02		ng/uL		100	70 - 130
Bis(2-chloroethyl)ether	5.00	4.93		ng/uL		99	70 - 130
bis (2-chloroisopropyl) ether	5.00	5.36		ng/uL		107	70 - 130
Bis(2-ethylhexyl) phthalate	5.00	4.95		ng/uL		99	70 - 130
4-Bromophenyl phenyl ether	5.00	5.51		ng/uL		110	70 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/3
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	5.00	4.76		ng/uL		95	70 - 130
Carbazole	5.00	5.16		ng/uL		103	70 - 130
4-Chloroaniline	5.00	4.85	M	ng/uL		97	70 - 130
Pyridine	5.00	4.95		ng/uL		99	70 - 130
4-Chloro-3-methylphenol	5.00	5.12		ng/uL		102	70 - 130
2-Chloronaphthalene	5.00	4.87		ng/uL		97	70 - 130
2-Chlorophenol	5.00	5.07		ng/uL		101	70 - 130
4-Chlorophenyl phenyl ether	5.00	5.04		ng/uL		101	70 - 130
Chrysene	5.00	5.00		ng/uL		100	70 - 130
Dibenz(a,h)anthracene	5.00	4.92		ng/uL		98	70 - 130
Dibenzofuran	5.00	4.87		ng/uL		97	70 - 130
1,2-Dichlorobenzene	5.00	5.33		ng/uL		107	70 - 130
1,3-Dichlorobenzene	5.00	5.18		ng/uL		104	70 - 130
1,4-Dichlorobenzene	5.00	5.28		ng/uL		106	70 - 130
3,3'-Dichlorobenzidine	10.0	9.74		ng/uL		97	70 - 130
2,4-Dichlorophenol	5.00	4.96		ng/uL		99	70 - 130
Diethyl phthalate	5.00	5.02		ng/uL		100	70 - 130
2,4-Dimethylphenol	5.00	4.92		ng/uL		98	70 - 130
Dimethyl phthalate	5.00	5.12		ng/uL		102	70 - 130
Di-n-butyl phthalate	5.00	5.36		ng/uL		107	70 - 130
4,6-Dinitro-2-methylphenol	10.0	10.3		ng/uL		103	70 - 130
2,4-Dinitrophenol	10.0	9.94		ng/uL		99	70 - 130
2,4-Dinitrotoluene	5.00	5.21		ng/uL		104	70 - 130
2,6-Dinitrotoluene	5.00	5.05		ng/uL		101	70 - 130
Di-n-octyl phthalate	5.00	4.79		ng/uL		96	70 - 130
Fluoranthene	5.00	5.18		ng/uL		104	70 - 130
Fluorene	5.00	4.86		ng/uL		97	70 - 130
Hexachlorobenzene	5.00	5.41		ng/uL		108	70 - 130
Hexachlorobutadiene	5.00	4.94		ng/uL		99	70 - 130
Hexachlorocyclopentadiene	5.00	4.97		ng/uL		99	70 - 130
Hexachloroethane	5.00	5.44		ng/uL		109	70 - 130
Indeno[1,2,3-cd]pyrene	5.00	4.86		ng/uL		97	70 - 130
Isophorone	5.00	4.85		ng/uL		97	70 - 130
2-Methylnaphthalene	5.00	4.74		ng/uL		95	70 - 130
2-Methylphenol	5.00	5.15		ng/uL		103	70 - 130
3 & 4 Methylphenol	5.00	5.07		ng/uL		101	70 - 130
Naphthalene	5.00	4.70		ng/uL		94	70 - 130
2-Nitroaniline	5.00	5.03		ng/uL		101	70 - 130
3-Nitroaniline	5.00	5.21		ng/uL		104	70 - 130
4-Nitroaniline	5.00	4.71		ng/uL		94	70 - 130
Nitrobenzene	5.00	4.76		ng/uL		95	70 - 130
2-Nitrophenol	5.00	5.00		ng/uL		100	70 - 130
4-Nitrophenol	10.0	10.0		ng/uL		100	70 - 130
N-Nitrosodi-n-propylamine	5.00	5.28		ng/uL		106	70 - 130
N-Nitrosodiphenylamine	10.0	11.0		ng/uL		110	70 - 130
Pentachlorophenol	10.0	9.10		ng/uL		91	70 - 130
Phenanthrene	5.00	4.96		ng/uL		99	70 - 130
Phenol	5.00	5.05		ng/uL		101	70 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/3
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	5.00	4.94		ng/uL		99	70 - 130
1,2,4-Trichlorobenzene	5.00	4.94		ng/uL		99	70 - 130
2,4,5-Trichlorophenol	5.00	5.05		ng/uL		101	70 - 130
2,4,6-Trichlorophenol	5.00	4.86		ng/uL		97	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*94*		*70 - 130*
2-Fluorophenol (Surr)	*107*		*50 - 150*
Nitrobenzene-d5 (Surr)	*97*		*50 - 150*
Phenol-d5 (Surr)	*99*		*50 - 150*
Terphenyl-d14 (Surr)	*98*		*50 - 150*
2,4,6-Tribromophenol (Surr)	*108*		*50 - 150*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-176509/2-A
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176509

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.018	ug/L		04/15/15 09:05	04/16/15 19:56	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		04/15/15 09:05	04/16/15 19:56	1
4,4'-DDT	0.050	U	0.050	0.017	ug/L		04/15/15 09:05	04/16/15 19:56	1
Aldrin	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
alpha-BHC	0.050	U	0.050	0.014	ug/L		04/15/15 09:05	04/16/15 19:56	1
alpha-Chlordane	0.050	U	0.050	0.012	ug/L		04/15/15 09:05	04/16/15 19:56	1
beta-BHC	0.050	U	0.050	0.018	ug/L		04/15/15 09:05	04/16/15 19:56	1
delta-BHC	0.050	U	0.050	0.029	ug/L		04/15/15 09:05	04/16/15 19:56	1
Dieldrin	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endosulfan I	0.050	U	0.050	0.016	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endosulfan II	0.050	U	0.050	0.015	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endosulfan sulfate	0.050	U	0.050	0.015	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endrin	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endrin aldehyde	0.050	U	0.050	0.018	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endrin ketone	0.050	U	0.050	0.016	ug/L		04/15/15 09:05	04/16/15 19:56	1
gamma-BHC (Lindane)	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
gamma-Chlordane	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Heptachlor	0.050	U	0.050	0.014	ug/L		04/15/15 09:05	04/16/15 19:56	1
Heptachlor epoxide	0.050	U	0.050	0.015	ug/L		04/15/15 09:05	04/16/15 19:56	1
Methoxychlor	0.050	U	0.10	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Toxaphene	2.0	U	2.0	0.20	ug/L		04/15/15 09:05	04/16/15 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*30 - 135*	*04/15/15 09:05*	*04/16/15 19:56*	*1*
DCB Decachlorobiphenyl	*96*		*30 - 135*	*04/15/15 09:05*	*04/16/15 19:56*	*1*
Tetrachloro-m-xylene	*84*		*25 - 140*	*04/15/15 09:05*	*04/16/15 19:56*	*1*
Tetrachloro-m-xylene	*84*		*25 - 140*	*04/15/15 09:05*	*04/16/15 19:56*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-176509/3-A
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.500	0.579		ug/L		116	25 - 150
4,4'-DDE	0.500	0.518		ug/L		104	35 - 140
4,4'-DDT	0.500	0.561		ug/L		112	45 - 140
Aldrin	0.500	0.452		ug/L		90	25 - 140
alpha-BHC	0.500	0.496		ug/L		99	60 - 130
alpha-Chlordane	0.500	0.482		ug/L		96	65 - 125
beta-BHC	0.500	0.476		ug/L		95	65 - 125
delta-BHC	0.500	0.511		ug/L		102	45 - 135
Dieldrin	0.500	0.506		ug/L		101	60 - 130
Endosulfan I	0.500	0.358		ug/L		72	50 - 110
Endosulfan II	0.500	0.399		ug/L		80	30 - 130
Endosulfan sulfate	0.500	0.487		ug/L		97	55 - 135
Endrin	0.500	0.530		ug/L		106	55 - 135
Endrin aldehyde	0.500	0.479		ug/L		96	55 - 135
Endrin ketone	0.500	0.458		ug/L		92	75 - 125
gamma-BHC (Lindane)	0.500	0.498		ug/L		100	25 - 135
gamma-Chlordane	0.500	0.491		ug/L		98	60 - 125
Heptachlor	0.500	0.509		ug/L		102	40 - 130
Heptachlor epoxide	0.500	0.485		ug/L		97	60 - 130
Methoxychlor	0.500	0.534		ug/L		107	55 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*30 - 135*
DCB Decachlorobiphenyl	*93*		*30 - 135*
Tetrachloro-m-xylene	*91*		*25 - 140*
Tetrachloro-m-xylene	*88*		*25 - 140*

Lab Sample ID: MB 240-176661/5-A
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176661

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*44 - 144*	*04/16/15 08:22*	*04/22/15 05:39*	*1*
DCB Decachlorobiphenyl	*82*		*44 - 144*	*04/16/15 08:22*	*04/22/15 05:39*	*1*
Tetrachloro-m-xylene	*83*		*44 - 127*	*04/16/15 08:22*	*04/22/15 05:39*	*1*
Tetrachloro-m-xylene	*80*		*44 - 127*	*04/16/15 08:22*	*04/22/15 05:39*	*1*

Lab Sample ID: LCS 240-176661/6-A
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.00200	0.00208	J D	mg/L		104	56 - 144
gamma-BHC (Lindane)	0.00200	0.00186	J D	mg/L		93	60 - 139
Heptachlor	0.00200	0.00191	J D	mg/L		96	65 - 123
Heptachlor epoxide	0.00200	0.00195	J D	mg/L		98	62 - 141
Methoxychlor	0.00400	0.00347	J D	mg/L		87	52 - 138

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-176661/6-A
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176661

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*44 - 144*
DCB Decachlorobiphenyl	*101*		*44 - 144*
Tetrachloro-m-xylene	*89*		*44 - 127*
Tetrachloro-m-xylene	*87*		*44 - 127*

Lab Sample ID: MRL 240-176694/16
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD			5.00	5.13		ug/L		103	70 - 130		
4,4'-DDD			5.00	5.09		ug/L		102	70 - 130		
4,4'-DDE			5.00	4.76		ug/L		95	70 - 130		
4,4'-DDE			5.00	5.08		ug/L		102	70 - 130		
4,4'-DDT			5.00	4.74		ug/L		95	70 - 130		
4,4'-DDT			5.00	4.80		ug/L		96	70 - 130		
Aldrin			5.00	5.06		ug/L		101	70 - 130		
Aldrin			5.00	5.14		ug/L		103	70 - 130		
alpha-BHC			5.00	4.81		ug/L		96	70 - 130		
alpha-BHC			5.00	4.86		ug/L		97	70 - 130		
alpha-Chlordane			5.00	5.25		ug/L		105	70 - 130		
alpha-Chlordane			5.00	5.37		ug/L		107	70 - 130		
beta-BHC			5.00	5.62		ug/L		112	70 - 130		
beta-BHC			5.00	5.74		ug/L		115	70 - 130		
delta-BHC			5.00	4.71		ug/L		94	70 - 130		
delta-BHC			5.00	4.80		ug/L		96	70 - 130		
Dieldrin			5.00	5.19		ug/L		104	70 - 130		
Dieldrin			5.00	5.30		ug/L		106	70 - 130		
Endosulfan I			5.00	5.38		ug/L		108	70 - 130		
Endosulfan I			5.00	5.52		ug/L		110	70 - 130		
Endosulfan II			5.00	5.84		ug/L		117	70 - 130		
Endosulfan II			5.00	5.86		ug/L		117	70 - 130		
Endosulfan sulfate			5.00	5.75		ug/L		115	70 - 130		
Endosulfan sulfate			5.00	5.68		ug/L		114	70 - 130		
Endrin			5.00	5.53		ug/L		111	70 - 130		
Endrin			5.00	5.58		ug/L		112	70 - 130		
Endrin aldehyde			5.00	5.72		ug/L		114	70 - 130		
Endrin aldehyde			5.00	5.74		ug/L		115	70 - 130		
Endrin ketone			5.00	5.65		ug/L		113	70 - 130		
Endrin ketone			5.00	5.57		ug/L		111	70 - 130		
gamma-BHC (Lindane)			5.00	4.98		ug/L		100	70 - 130		
gamma-BHC (Lindane)			5.00	5.02		ug/L		100	70 - 130		
gamma-Chlordane			5.00	5.14		ug/L		103	70 - 130		
gamma-Chlordane			5.00	5.34		ug/L		107	70 - 130		
Heptachlor			5.00	5.41		ug/L		108	70 - 130		
Heptachlor			5.00	5.51		ug/L		110	70 - 130		
Heptachlor epoxide			5.00	5.41		ug/L		108	70 - 130		
Heptachlor epoxide			5.00	5.51		ug/L		110	70 - 130		

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-176694/16
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Methoxychlor	5.00	6.05		ug/L		121	70 - 130
Methoxychlor	5.00	5.80		ug/L		116	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*125*		*50 - 150*
DCB Decachlorobiphenyl	*120*		*50 - 150*
Tetrachloro-m-xylene	*107*		*50 - 150*
Tetrachloro-m-xylene	*109*		*50 - 150*

Lab Sample ID: MRL 240-176694/31
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	6.17		ug/L		123	70 - 130
4,4'-DDD	5.00	5.65		ug/L		113	70 - 130
4,4'-DDE	5.00	5.51		ug/L		110	70 - 130
4,4'-DDE	5.00	5.34		ug/L		107	70 - 130
4,4'-DDT	5.00	4.83		ug/L		97	70 - 130
4,4'-DDT	5.00	4.70		ug/L		94	70 - 130
Aldrin	5.00	5.30		ug/L		106	70 - 130
Aldrin	5.00	5.32		ug/L		106	70 - 130
alpha-BHC	5.00	5.15		ug/L		103	70 - 130
alpha-BHC	5.00	5.11		ug/L		102	70 - 130
alpha-Chlordane	5.00	5.51		ug/L		110	70 - 130
alpha-Chlordane	5.00	5.53		ug/L		111	70 - 130
beta-BHC	5.00	6.09		ug/L		122	70 - 130
beta-BHC	5.00	5.96		ug/L		119	70 - 130
delta-BHC	5.00	5.27		ug/L		105	70 - 130
delta-BHC	5.00	5.15		ug/L		103	70 - 130
Dieldrin	5.00	5.46		ug/L		109	70 - 130
Dieldrin	5.00	5.37		ug/L		107	70 - 130
Endosulfan I	5.00	5.72		ug/L		114	70 - 130
Endosulfan I	5.00	5.72		ug/L		114	70 - 130
Endosulfan II	5.00	5.88		ug/L		118	70 - 130
Endosulfan II	5.00	5.73		ug/L		115	70 - 130
Endosulfan sulfate	5.00	6.01		ug/L		120	70 - 130
Endosulfan sulfate	5.00	5.74		ug/L		115	70 - 130
Endrin	5.00	5.81		ug/L		116	70 - 130
Endrin	5.00	5.65		ug/L		113	70 - 130
Endrin aldehyde	5.00	6.02		ug/L		120	70 - 130
Endrin aldehyde	5.00	5.80		ug/L		116	70 - 130
Endrin ketone	5.00	5.79		ug/L		116	70 - 130
Endrin ketone	5.00	5.56		ug/L		111	70 - 130
gamma-BHC (Lindane)	5.00	5.33		ug/L		107	70 - 130
gamma-BHC (Lindane)	5.00	5.27		ug/L		105	70 - 130
gamma-Chlordane	5.00	5.43		ug/L		109	70 - 130
gamma-Chlordane	5.00	5.52		ug/L		110	70 - 130

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-176694/31
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	5.00	5.76		ug/L		115	70 - 130
Heptachlor	5.00	5.81		ug/L		116	70 - 130
Heptachlor epoxide	5.00	5.71		ug/L		114	70 - 130
Heptachlor epoxide	5.00	5.72		ug/L		114	70 - 130
Methoxychlor	5.00	6.22		ug/L		124	70 - 130
Methoxychlor	5.00	5.73		ug/L		115	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*126*		*50 - 150*
DCB Decachlorobiphenyl	*123*		*50 - 150*
Tetrachloro-m-xylene	*112*		*50 - 150*
Tetrachloro-m-xylene	*112*		*50 - 150*

Lab Sample ID: MRL 240-177258/31
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	5.00	5.75		ug/L		115	70 - 130
Endrin	5.00	5.81		ug/L		116	70 - 130
gamma-BHC (Lindane)	5.00	5.48		ug/L		110	70 - 130
gamma-BHC (Lindane)	5.00	5.54		ug/L		111	70 - 130
Heptachlor	5.00	5.88		ug/L		118	70 - 130
Heptachlor	5.00	6.12		ug/L		122	70 - 130
Heptachlor epoxide	5.00	5.86		ug/L		117	70 - 130
Heptachlor epoxide	5.00	6.00		ug/L		120	70 - 130
Methoxychlor	5.00	5.97		ug/L		119	70 - 130
Methoxychlor	5.00	6.05		ug/L		121	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*50 - 150*
DCB Decachlorobiphenyl	*123*		*50 - 150*
Tetrachloro-m-xylene	*116*		*50 - 150*
Tetrachloro-m-xylene	*120*		*50 - 150*

Lab Sample ID: MRL 240-177258/49
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	5.00	5.61		ug/L		112	70 - 130
Endrin	5.00	5.42		ug/L		108	70 - 130
gamma-BHC (Lindane)	5.00	5.36		ug/L		107	70 - 130
gamma-BHC (Lindane)	5.00	5.46		ug/L		109	70 - 130
Heptachlor	5.00	5.73		ug/L		115	70 - 130
Heptachlor	5.00	5.96		ug/L		119	70 - 130
Heptachlor epoxide	5.00	5.76		ug/L		115	70 - 130
Heptachlor epoxide	5.00	5.86		ug/L		117	70 - 130

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-177258/49
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Methoxychlor	5.00	4.23		ug/L		85	70 - 130
Methoxychlor	5.00	3.94		ug/L		79	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*116*		*50 - 150*
DCB Decachlorobiphenyl	*117*		*50 - 150*
Tetrachloro-m-xylene	*117*		*50 - 150*
Tetrachloro-m-xylene	*118*		*50 - 150*

Lab Sample ID: MB 240-177491/3-A
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177491

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0012	U	0.030	0.00014	mg/L		04/22/15 15:15	04/27/15 16:16	1
Endrin	0.00012	U	0.010	0.000013	mg/L		04/22/15 15:15	04/27/15 16:16	1
gamma-BHC (Lindane)	0.00012	U	0.010	0.000013	mg/L		04/22/15 15:15	04/27/15 16:16	1
Heptachlor	0.00012	U	0.010	0.000014	mg/L		04/22/15 15:15	04/27/15 16:16	1
Heptachlor epoxide	0.00012	U	0.010	0.000015	mg/L		04/22/15 15:15	04/27/15 16:16	1
Methoxychlor	0.0000237	J	0.030	0.000013	mg/L		04/22/15 15:15	04/27/15 16:16	1
Toxaphene	0.0048	U	0.50	0.00020	mg/L		04/22/15 15:15	04/27/15 16:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*44 - 144*	*04/22/15 15:15*	*04/27/15 16:16*	*1*
DCB Decachlorobiphenyl	*98*		*44 - 144*	*04/22/15 15:15*	*04/27/15 16:16*	*1*
Tetrachloro-m-xylene	*79*		*44 - 127*	*04/22/15 15:15*	*04/27/15 16:16*	*1*
Tetrachloro-m-xylene	*78*		*44 - 127*	*04/22/15 15:15*	*04/27/15 16:16*	*1*

Lab Sample ID: LCS 240-177491/4-A
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.00200	0.00209	J D	mg/L		104	56 - 144
gamma-BHC (Lindane)	0.00200	0.00167	J D	mg/L		84	60 - 139
Heptachlor	0.00200	0.00181	J D	mg/L		91	65 - 123
Heptachlor epoxide	0.00200	0.00191	J D	mg/L		96	62 - 141
Methoxychlor	0.00400	0.00403	J D	mg/L		101	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*108*		*44 - 144*
DCB Decachlorobiphenyl	*105*		*44 - 144*
Tetrachloro-m-xylene	*72*		*44 - 127*
Tetrachloro-m-xylene	*71*		*44 - 127*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-178086/12
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			5.00	4.63		ug/L		93	70 - 130		
Endrin			5.00	4.62		ug/L		92	70 - 130		
gamma-BHC (Lindane)			5.00	5.09		ug/L		102	70 - 130		
gamma-BHC (Lindane)			5.00	5.14		ug/L		103	70 - 130		
Heptachlor			5.00	5.21		ug/L		104	70 - 130		
Heptachlor			5.00	5.42		ug/L		108	70 - 130		
Heptachlor epoxide			5.00	5.45		ug/L		109	70 - 130		
Heptachlor epoxide			5.00	5.54		ug/L		111	70 - 130		
Methoxychlor			5.00	5.00		ug/L		100	70 - 130		
Methoxychlor			5.00	5.12		ug/L		102	70 - 130		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*50 - 150*
DCB Decachlorobiphenyl	*101*		*50 - 150*
Tetrachloro-m-xylene	*109*		*50 - 150*
Tetrachloro-m-xylene	*113*		*50 - 150*

Lab Sample ID: MRL 240-178086/19
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			5.00	5.60		ug/L		112	70 - 130		
Endrin			5.00	5.47		ug/L		109	70 - 130		
gamma-BHC (Lindane)			5.00	4.98		ug/L		100	70 - 130		
gamma-BHC (Lindane)			5.00	4.91		ug/L		98	70 - 130		
Heptachlor			5.00	5.61		ug/L		112	70 - 130		
Heptachlor			5.00	5.65		ug/L		113	70 - 130		
Heptachlor epoxide			5.00	5.64		ug/L		113	70 - 130		
Heptachlor epoxide			5.00	5.60		ug/L		112	70 - 130		
Methoxychlor			5.00	6.15		ug/L		123	70 - 130		
Methoxychlor			5.00	5.77		ug/L		115	70 - 130		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*119*		*50 - 150*
DCB Decachlorobiphenyl	*115*		*50 - 150*
Tetrachloro-m-xylene	*112*		*50 - 150*
Tetrachloro-m-xylene	*115*		*50 - 150*

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 178086

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP
Prep Batch: 177491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin	0.00015	U Q J	0.00250	0.000411	D Q J	mg/L		16	50 - 150		
gamma-BHC (Lindane)	0.00015	U Q	0.00250	0.00157	J D Q	mg/L		63	50 - 150		
Heptachlor	0.00015	U Q J	0.00250	0.000356	D Q J	mg/L		14	50 - 150		

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 178086

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP
Prep Batch: 177491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	0.00015	U Q J	0.00250	0.000591	D Q J	mg/L		24	50 - 150
Methoxychlor	0.00015	U Q J	0.00500	0.00106	D Q J	mg/L		21	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*2*	*Q*	*44 - 144*
DCB Decachlorobiphenyl	*2*	*Q*	*44 - 144*
Tetrachloro-m-xylene	*34*	*Q*	*44 - 127*
Tetrachloro-m-xylene	*26*	*Q*	*44 - 127*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-176083/3-A
Matrix: Water
Analysis Batch: 176376

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176083

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	0.20	U	0.50	0.13	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1016	0.20	U	0.50	0.17	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1232	0.20	U	0.50	0.16	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1242	0.40	U	0.50	0.22	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1248	0.20	U	0.50	0.10	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1254	0.20	U	0.50	0.16	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1260	0.20	U	0.50	0.17	ug/L		04/13/15 06:11	04/14/15 14:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:21*	*1*
Tetrachloro-m-xylene	*70*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:21*	*1*
DCB Decachlorobiphenyl	*90*		*40 - 135*	*04/13/15 06:11*	*04/14/15 14:21*	*1*
DCB Decachlorobiphenyl	*88*		*40 - 135*	*04/13/15 06:11*	*04/14/15 14:21*	*1*

Lab Sample ID: LCS 240-176083/4-A
Matrix: Water
Analysis Batch: 176376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176083

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016			5.00	4.08		ug/L		82	25 - 145
Aroclor-1260			5.00	4.42		ug/L		88	30 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*40 - 140*
Tetrachloro-m-xylene	*82*		*40 - 140*
DCB Decachlorobiphenyl	*70*		*40 - 135*
DCB Decachlorobiphenyl	*69*		*40 - 135*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MRL 240-176376/10
Matrix: Water
Analysis Batch: 176376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0539		ng/uL		108	70 - 130
Aroclor-1016	0.0500	0.0572		ng/uL		114	70 - 130
Aroclor-1260	0.0500	0.0552		ng/uL		110	70 - 130
Aroclor-1260	0.0500	0.0563		ng/uL		113	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Tetrachloro-m-xylene	*119*		*50 - 150*
Tetrachloro-m-xylene	*111*		*50 - 150*
DCB Decachlorobiphenyl	*120*		*50 - 150*
DCB Decachlorobiphenyl	*130*		*50 - 150*

Lab Sample ID: MRL 240-176376/4
Matrix: Water
Analysis Batch: 176376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0541		ng/uL		108	70 - 130
Aroclor-1260	0.0500	0.0543		ng/uL		109	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Tetrachloro-m-xylene	*104*		*50 - 150*
Tetrachloro-m-xylene	*111*		*50 - 150*
DCB Decachlorobiphenyl	*111*		*50 - 150*
DCB Decachlorobiphenyl	*118*		*50 - 150*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 240-176663/5-A
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176663

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0040	U	0.50	0.0019	mg/L		04/16/15 08:24	04/21/15 22:05	1
Silvex (2,4,5-TP)	0.00020	U	0.10	0.00027	mg/L		04/16/15 08:24	04/21/15 22:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*		*37 - 116*	*04/16/15 08:24*	*04/21/15 22:05*	*1*
2,4-Dichlorophenylacetic acid	*72*		*37 - 116*	*04/16/15 08:24*	*04/21/15 22:05*	*1*

Lab Sample ID: LCS 240-176663/6-A
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.0200	0.0132	J	mg/L		66	35 - 136
Silvex (2,4,5-TP)	0.00500	0.00346	J	mg/L		69	46 - 112

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 240-176663/6-A
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176663

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	88		37 - 116
2,4-Dichlorophenylacetic acid	90		37 - 116

Lab Sample ID: MRL 240-177320/15
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.0200	0.0231	J	ng/uL		115	70 - 130		
2,4-D			0.0200	0.0261	J ^	ng/uL		131	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00555	J	ng/uL		111	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00562	J	ng/uL		112	70 - 130		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2,4-Dichlorophenylacetic acid	147		37 - 116
2,4-Dichlorophenylacetic acid	113		37 - 116

Lab Sample ID: MRL 240-177320/7
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.0200	0.0202	J	ng/uL		101	70 - 130		
2,4-D			0.0200	0.0219	J	ng/uL		109	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00497	J	ng/uL		99	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00471	J	ng/uL		94	70 - 130		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2,4-Dichlorophenylacetic acid	103		37 - 116
2,4-Dichlorophenylacetic acid	108		37 - 116

Lab Sample ID: 240-49236-1 MS
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D	0.0040	U	0.0200	0.0141	J	mg/L		71	54 - 114		
Silvex (2,4,5-TP)	0.00020	U	0.00500	0.00371	J	mg/L		74	52 - 124		

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	81		37 - 116
2,4-Dichlorophenylacetic acid	78		37 - 116

Method: 8330 Modified - Nitroguanidine (HPLC)

Lab Sample ID: MB 320-71039/1-A
Matrix: Water
Analysis Batch: 71582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71039

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0	U	20	2.4	ug/L		04/13/15 19:24	04/20/15 16:30	1

Lab Sample ID: LCS 320-71039/2-A
Matrix: Water
Analysis Batch: 71582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitroguanidine	250	195		ug/L		78	73 - 117

Lab Sample ID: 240-49236-3 MS
Matrix: Water
Analysis Batch: 71582

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitroguanidine	6.0	U	250	206		ug/L		82	73 - 117

Lab Sample ID: 240-49236-3 MSD
Matrix: Water
Analysis Batch: 71582

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71039

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitroguanidine	6.0	U	250	206		ug/L		83	73 - 117	0	15

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 320-70962/1-A
Matrix: Water
Analysis Batch: 71173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70962

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.050	U	0.10	0.031	ug/L		04/13/15 09:25	04/15/15 17:15	1
1,3-Dinitrobenzene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2,4,6-Trinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2,4-Dinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2,6-Dinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.20	0.015	ug/L		04/13/15 09:25	04/15/15 17:15	1
2-Nitrotoluene	0.10	U	0.50	0.088	ug/L		04/13/15 09:25	04/15/15 17:15	1
3-Nitrotoluene	0.10	U	0.50	0.057	ug/L		04/13/15 09:25	04/15/15 17:15	1
4-Nitrotoluene	0.10	U	0.50	0.088	ug/L		04/13/15 09:25	04/15/15 17:15	1
4-Amino-2,6-dinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
HMX	0.050	U	0.10	0.036	ug/L		04/13/15 09:25	04/15/15 17:15	1
RDX	0.050	U	0.10	0.036	ug/L		04/13/15 09:25	04/15/15 17:15	1
Nitrobenzene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
Tetryl	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
Nitroglycerin	0.50	U	0.65	0.33	ug/L		04/13/15 09:25	04/15/15 17:15	1
PETN	0.50	U	0.65	0.30	ug/L		04/13/15 09:25	04/15/15 17:15	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 320-70962/1-A
Matrix: Water
Analysis Batch: 71173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70962

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	92		79 - 111	04/13/15 09:25	04/15/15 17:15	1

Lab Sample ID: LCS 320-70962/2-A
Matrix: Water
Analysis Batch: 71173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	1.00	1.06		ug/L		106	74 - 120
1,3-Dinitrobenzene	1.00	1.07		ug/L		107	72 - 123
2,4,6-Trinitrotoluene	1.00	1.03		ug/L		103	69 - 111
2,4-Dinitrotoluene	1.00	1.02		ug/L		102	70 - 119
2,6-Dinitrotoluene	1.00	1.02		ug/L		102	71 - 119
2-Amino-4,6-dinitrotoluene	1.00	1.03		ug/L		103	77 - 123
2-Nitrotoluene	1.00	0.985		ug/L		98	64 - 120
3-Nitrotoluene	1.00	0.991		ug/L		99	67 - 114
4-Nitrotoluene	1.00	0.998		ug/L		100	67 - 115
4-Amino-2,6-dinitrotoluene	1.00	0.990		ug/L		99	68 - 113
HMX	1.00	1.05		ug/L		105	67 - 115
RDX	1.00	1.09		ug/L		109	68 - 122
Nitrobenzene	1.00	1.05		ug/L		105	69 - 119
Tetryl	1.00	1.03		ug/L		103	66 - 105
Nitroglycerin	5.00	5.38		ug/L		108	85 - 115
PETN	5.00	4.90		ug/L		98	84 - 117

Surrogate	LCS %Recovery	LCS Qualifier	Limits
3,4-Dinitrotoluene	95		79 - 111

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-176697/2-A
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176697

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0050	U	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 08:27	1
Arsenic	0.010	U	0.50	0.0029	mg/L		04/16/15 09:57	04/17/15 08:27	1
Barium	0.00189	J	10	0.0010	mg/L		04/16/15 09:57	04/17/15 08:27	1
Cadmium	0.0010	U	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 08:27	1
Chromium	0.000744	J	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 08:27	1
Lead	0.0050	U	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 08:27	1
Selenium	0.010	U	0.25	0.0040	mg/L		04/16/15 09:57	04/17/15 08:27	1

Lab Sample ID: LCS 240-176697/3-A
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0500	0.0493	J	mg/L		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-176697/3-A
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	1.94		mg/L		97	80 - 120
Barium	2.00	1.83	J	mg/L		91	80 - 120
Cadmium	0.0500	0.0476	J	mg/L		95	80 - 120
Chromium	0.200	0.185	J	mg/L		92	80 - 120
Lead	0.500	0.449	J	mg/L		90	80 - 120
Selenium	2.00	1.96		mg/L		98	80 - 120

Lab Sample ID: LB 240-176620/1-B
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 176697

Analyte	LB Result	LB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0050	U	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 08:22	1
Arsenic	0.00433	J	0.50	0.0029	mg/L		04/16/15 09:57	04/17/15 08:22	1
Barium	0.00472	J	10	0.0010	mg/L		04/16/15 09:57	04/17/15 08:22	1
Cadmium	0.0010	U	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 08:22	1
Chromium	0.00185	J	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 08:22	1
Lead	0.00212	J	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 08:22	1
Selenium	0.00653	J	0.25	0.0040	mg/L		04/16/15 09:57	04/17/15 08:22	1

Lab Sample ID: 240-49236-1 MS
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0027	J	1.00	1.01	J D	mg/L		101	80 - 120
Barium	0.38	J	50.0	49.1	J D	mg/L		98	80 - 120
Cadmium	0.0010	J	1.00	1.00	D	mg/L		100	80 - 120
Chromium	0.0039	J	5.00	4.93	D	mg/L		99	80 - 120
Lead	0.022	J	5.00	4.85	D	mg/L		96	80 - 120

Lab Sample ID: 240-49236-1 MS
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.013	J D	5.00	5.10	D	mg/L		102	80 - 120
Selenium	0.018	J D	1.00	1.06	J D	mg/L		104	80 - 120

Lab Sample ID: 240-49236-1 DU
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	0.0027	J	0.00285	J	mg/L		5	20
Barium	0.38	J	0.385	J	mg/L		1	20
Cadmium	0.0010	J	0.000918	J	mg/L		13	20
Chromium	0.0039	J	0.00359	J	mg/L		9	20
Lead	0.022	J	0.0226	J	mg/L		1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-49236-1 DU
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.013	J D	0.0164	J D	mg/L		22	20
Selenium	0.018	J D	0.040	U	mg/L		NC	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-176157/1-A
Matrix: Water
Analysis Batch: 176490

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.589	J	2.0	0.16	ug/L		04/13/15 10:08	04/14/15 11:09	1
Arsenic	0.744	J	5.0	0.18	ug/L		04/13/15 10:08	04/14/15 11:09	1
Barium	4.0	U	5.0	1.1	ug/L		04/13/15 10:08	04/14/15 11:09	1
Cadmium	0.592	J	2.0	0.061	ug/L		04/13/15 10:08	04/14/15 11:09	1
Calcium	1000	U	2000	240	ug/L		04/13/15 10:08	04/14/15 11:09	1
Chromium	1.20	J	6.0	0.20	ug/L		04/13/15 10:08	04/14/15 11:09	1
Cobalt	0.484	J	1.0	0.021	ug/L		04/13/15 10:08	04/14/15 11:09	1
Copper	1.17	J	4.0	0.75	ug/L		04/13/15 10:08	04/14/15 11:09	1
Iron	19.9	J	150	16	ug/L		04/13/15 10:08	04/14/15 11:09	1
Lead	0.367	J	1.0	0.11	ug/L		04/13/15 10:08	04/14/15 11:09	1
Magnesium	300	U	1000	48	ug/L		04/13/15 10:08	04/14/15 11:09	1
Nickel	0.413	J	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:09	1
Potassium	150	U	1000	30	ug/L		04/13/15 10:08	04/14/15 11:09	1
Selenium	1.12	J	5.0	0.25	ug/L		04/13/15 10:08	04/14/15 11:09	1
Silver	0.25	U	1.0	0.020	ug/L		04/13/15 10:08	04/14/15 11:09	1
Sodium	400	U	1000	68	ug/L		04/13/15 10:08	04/14/15 11:09	1
Thallium	0.530	J	2.0	0.074	ug/L		04/13/15 10:08	04/14/15 11:09	1
Vanadium	0.515	J	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:09	1
Zinc	50	U	50	7.3	ug/L		04/13/15 10:08	04/14/15 11:09	1

Lab Sample ID: MB 240-176157/1-A
Matrix: Water
Analysis Batch: 176660

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	9.0	ug/L		04/13/15 10:08	04/15/15 12:59	1
Magnesium	300	U	1000	48	ug/L		04/13/15 10:08	04/15/15 12:59	1
Manganese	10	U	10	1.1	ug/L		04/13/15 10:08	04/15/15 12:59	1
Sodium	400	U	1000	68	ug/L		04/13/15 10:08	04/15/15 12:59	1

Lab Sample ID: MB 240-176157/1-A
Matrix: Water
Analysis Batch: 177115

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.405	J	1.0	0.053	ug/L		04/13/15 10:08	04/20/15 17:25	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-176157/2-A
Matrix: Water
Analysis Batch: 176490

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	108		ug/L		108	80 - 120
Arsenic	1000	991		ug/L		99	80 - 120
Barium	1000	1120		ug/L		112	80 - 120
Cadmium	1000	1140		ug/L		114	80 - 120
Calcium	10000	9020		ug/L		90	80 - 120
Chromium	1000	1060		ug/L		106	80 - 120
Cobalt	1000	1090		ug/L		109	80 - 120
Copper	1000	1110		ug/L		111	80 - 120
Iron	10000	10600		ug/L		106	80 - 120
Lead	1000	1030		ug/L		103	80 - 120
Magnesium	10000	10300		ug/L		103	80 - 120
Nickel	1000	1120		ug/L		112	80 - 120
Potassium	10000	10100		ug/L		101	80 - 120
Selenium	1000	996		ug/L		100	80 - 120
Silver	100	103		ug/L		103	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Thallium	250	256		ug/L		103	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1120		ug/L		112	80 - 120

Lab Sample ID: LCS 240-176157/2-A
Matrix: Water
Analysis Batch: 176660

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9640		ug/L		96	80 - 120
Magnesium	10000	10200		ug/L		102	80 - 120
Manganese	1000	1040		ug/L		104	80 - 120
Sodium	10000	10100		ug/L		101	80 - 120

Lab Sample ID: LCS 240-176157/2-A
Matrix: Water
Analysis Batch: 177115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1000	1100		ug/L		110	80 - 120

Lab Sample ID: 240-49236-3 MS
Matrix: Water
Analysis Batch: 176490

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.43	J	100	103		ug/L		103	44 - 153
Arsenic	0.93	J	100	102		ug/L		101	82 - 123
Barium	18		100	119		ug/L		101	45 - 144
Cadmium	0.38	J	100	104		ug/L		103	78 - 117
Calcium	18000		10000	27900		ug/L		97	70 - 130
Chromium	1.3	J	100	103		ug/L		102	72 - 110
Cobalt	0.28	J	100	103		ug/L		103	67 - 114

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176490 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	1.1	J	100	105		ug/L		104	60 - 123
Iron	30	J	10000	10200		ug/L		101	22 - 169
Lead	0.18	J	100	102		ug/L		102	73 - 115
Nickel	3.0	U	100	103		ug/L		103	72 - 111
Potassium	2700		10000	12500		ug/L		98	70 - 130
Selenium	0.62	J	100	97.8		ug/L		97	72 - 148
Silver	0.25	U	100	99.8		ug/L		100	10 - 139
Thallium	0.22	J	100	103		ug/L		103	69 - 117
Vanadium	0.35	J	100	100		ug/L		100	70 - 112
Zinc	50	U	100	108		ug/L		108	49 - 156

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	60	U	10000	9410		ug/L		94	63 - 128
Manganese	10	U	100	98.3		ug/L		98	10 - 172
Sodium	43000		10000	51200	4	ug/L		83	80 - 120

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	31000	D	10000	39900	D	ug/L		88	70 - 130

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 177115 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.27	J	100	106		ug/L		106	77 - 124

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176490 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.43	J	0.328	J	ug/L		26	20
Arsenic	0.93	J	0.877	J	ug/L		5	20
Barium	18		17.1		ug/L		8	20
Cadmium	0.38	J	0.302	J	ug/L		23	20
Calcium	18000		17100		ug/L		7	20
Chromium	1.3	J	1.16	J	ug/L		12	20
Cobalt	0.28	J	0.193	J	ug/L		35	20
Copper	1.1	J	0.965	J	ug/L		12	20
Iron	30	J	26.7	J	ug/L		11	20
Lead	0.18	J	0.144	J	ug/L		22	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176490 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	3.0	U	3.0	U	ug/L		NC	20
Potassium	2700		2540		ug/L		5	20
Selenium	0.62	J	0.651	J	ug/L		5	20
Silver	0.25	U	0.25	U	ug/L		NC	20
Thallium	0.22	J	0.111	J	ug/L		66	20
Vanadium	0.35	J	1.5	U	ug/L		NC	20
Zinc	50	U	50	U	ug/L		NC	20

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	60	U	60	U	ug/L		NC	20
Manganese	10	U	10	U	ug/L		NC	20
Sodium	43000		40800		ug/L		5	20

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	31000	D	30400	D	ug/L		2	20

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 177115 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	0.27	J	0.303	J	ug/L		11	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-176162/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176385 — **Prep Batch: 176162**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		04/13/15 14:00	04/14/15 10:54	1

Lab Sample ID: LCS 240-176162/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176385 — **Prep Batch: 176162**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.67		ug/L		93	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 240-176701/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 176894 — **Prep Batch: 176701**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:41	1

Lab Sample ID: LCS 240-176701/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 176894 — **Prep Batch: 176701**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			0.00500	0.00501		mg/L		100	50 - 150		

Lab Sample ID: LB 240-176620/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 176894 — **Prep Batch: 176701**

Analyte	LB Result	LB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:40	1

Lab Sample ID: 240-49236-1 MS — **Client Sample ID: 079SB-0383-0001-IDW**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 176894 — **Prep Batch: 176701**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg	0.00020	U	0.00500	0.00531		mg/L		106	50 - 150		

Lab Sample ID: 240-49236-1 DU — **Client Sample ID: 079SB-0383-0001-IDW**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 176894 — **Prep Batch: 176701**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Hg	0.00020	U		0.00020	U	mg/L				NC	20

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 240-176597/1 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 176597

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Flashpoint			81.0	83.00		Degrees F		102	97 - 103		

Lab Sample ID: 240-49236-2 DU — **Client Sample ID: 079SB-0384-0001-IDW**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176597

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Flashpoint	>200			>200		Degrees F				NC	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-176155/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 176246 — **Prep Batch: 176155**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.30	mg/Kg		04/13/15 09:56	04/13/15 14:24	1

Lab Sample ID: LCS 240-176155/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 176246 — **Prep Batch: 176155**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	9.21	9.00		mg/Kg		98	68 - 123

Lab Sample ID: MB 240-177636/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177730 — **Prep Batch: 177636**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0050	U	0.010	0.0020	mg/L		04/23/15 11:18	04/23/15 14:31	1

Lab Sample ID: LCS 240-177636/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177730 — **Prep Batch: 177636**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0921	0.0719		mg/L		78	69 - 118

Lab Sample ID: MRL 240-177730/52 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 177730

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.00964	J	mg/L		96	70 - 130

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-176308/14-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176391 — **Prep Batch: 176308**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	0.94	mg/L		04/14/15 08:03	04/14/15 13:05	1

Lab Sample ID: MB 240-176308/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 176391 — **Prep Batch: 176308**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	29	U	30	22	mg/Kg		04/14/15 08:03	04/14/15 12:28	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 240-176308/15-A
Matrix: Water
Analysis Batch: 176391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176308

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			8.86	7.39		mg/L		83	70 - 130		

Lab Sample ID: LCS 240-176308/2-A
Matrix: Solid
Analysis Batch: 176391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176308

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			87.9	77.2		mg/Kg		88	70 - 130		

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 176391

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: Total/NA
Prep Batch: 176308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	3.0	U	8.86	7.39		mg/L		83	27 - 124		

Lab Sample ID: 240-49236-2 MSD
Matrix: Water
Analysis Batch: 176391

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: Total/NA
Prep Batch: 176308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	8.86	7.00		mg/L		79	27 - 124	5	20

Method: 9040C - pH

Lab Sample ID: LCS 240-176141/2
Matrix: Water
Analysis Batch: 176141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Corrosivity			6.15	6.150		SU		100	97 - 103		

Method: 9045C - pH

Lab Sample ID: 240-49236-1 DU
Matrix: Solid
Analysis Batch: 176141

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Corrosivity	6.26		6.490		SU		4	20

Method: WS-WC-0050 - Nitrocellulose

Lab Sample ID: MB 320-71147/1-B
Matrix: Water
Analysis Batch: 71741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71630

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0	U	2.0	0.48	mg/L		04/21/15 06:08	04/21/15 14:49	1

Lab Sample ID: LCS 320-71147/2-B
Matrix: Water
Analysis Batch: 71741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71630

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrocellulose			5.07	4.09		mg/L		81	26 - 144		

Lab Sample ID: 240-49236-3 MS
Matrix: Water
Analysis Batch: 71741

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrocellulose	1.0	U	5.07	3.89		mg/L		77	26 - 144		

Lab Sample ID: 240-49236-3 MSD
Matrix: Water
Analysis Batch: 71741

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrocellulose	1.0	U	5.07	4.57		mg/L		90	26 - 144	16	45

Lab Sample ID: MRL 320-71741/11
Matrix: Water
Analysis Batch: 71741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrocellulose			0.417	1.0	U	mg/L		108	70 - 130		

GC/MS VOA

Analysis Batch: 176298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8260B	
240-49236-5	079SB-0387-0001-RB	Total/NA	Water	8260B	
240-49236-6	079SB-0388-0001-TB	Total/NA	Water	8260B	
LCS 240-176298/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-176298/6	Method Blank	Total/NA	Water	8260B	
MRL 240-176298/15	Lab Control Sample	Total/NA	Water	8260B	
MRL 240-176298/5	Lab Control Sample	Total/NA	Water	8260B	

Leach Batch: 176667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 MSD	079SB-0384-0001-IDW	TCLP	Water	1311	
LB 240-176667/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 177316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8260B	176667
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8260B	176667
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	8260B	176667
240-49236-2 MSD	079SB-0384-0001-IDW	TCLP	Water	8260B	176667
LB 240-176667/1-A MB	Method Blank	TCLP	Solid	8260B	176667
LCS 240-177316/9	Lab Control Sample	Total/NA	Solid	8260B	
MRL 240-177316/14	Lab Control Sample	Total/NA	Solid	8260B	
MRL 240-177316/7	Lab Control Sample	Total/NA	Solid	8260B	

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Prep Batch: 176086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	3520C	
LCS 240-176086/3-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-176086/2-A	Method Blank	Total/NA	Water	3520C	

Leach Batch: 176620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	

Prep Batch: 176654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	3520C	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	3520C	176620
LCS 240-176654/9-A	Lab Control Sample	Total/NA	Solid	3520C	
MB 240-176654/8-A	Method Blank	Total/NA	Solid	3520C	

Analysis Batch: 177779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8270C	176654

GC/MS Semi VOA (Continued)

Analysis Batch: 177779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8270C	176654
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8270C	176086
LCS 240-176086/3-A	Lab Control Sample	Total/NA	Water	8270C	176086
LCS 240-176654/9-A	Lab Control Sample	Total/NA	Solid	8270C	176654
MB 240-176086/2-A	Method Blank	Total/NA	Water	8270C	176086
MB 240-176654/8-A	Method Blank	Total/NA	Solid	8270C	176654
MRL 240-177779/17	Lab Control Sample	Total/NA	Solid	8270C	
MRL 240-177779/3	Lab Control Sample	Total/NA	Solid	8270C	

GC Semi VOA

Analysis Batch: 174448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
PEM 240-174448/24	PEM		Solid	8081A	

Prep Batch: 176083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	3520C	
LCS 240-176083/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-176083/3-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 176376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8082	176083
LCS 240-176083/4-A	Lab Control Sample	Total/NA	Water	8082	176083
MB 240-176083/3-A	Method Blank	Total/NA	Water	8082	176083
MRL 240-176376/10	Lab Control Sample	Total/NA	Water	8082	
MRL 240-176376/4	Lab Control Sample	Total/NA	Water	8082	

Prep Batch: 176509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3 - RE	079SB-0385-0001-SW	Total/NA	Water	3520C	
LCS 240-176509/3-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-176509/2-A	Method Blank	Total/NA	Water	3520C	

Leach Batch: 176620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 - RE	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	1311	

Prep Batch: 176661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	3520C	176620
LCS 240-176661/6-A	Lab Control Sample	Total/NA	Solid	3520C	
MB 240-176661/5-A	Method Blank	Total/NA	Solid	3520C	

GC Semi VOA (Continued)

Prep Batch: 176663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8151A	176620
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	8151A	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8151A	176620
LCS 240-176663/6-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 240-176663/5-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 176694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3 - RE	079SB-0385-0001-SW	Total/NA	Water	8081A	176509
LCS 240-176509/3-A	Lab Control Sample	Total/NA	Water	8081A	176509
MB 240-176509/2-A	Method Blank	Total/NA	Water	8081A	176509
MRL 240-176694/15	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-176694/16	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-176694/30	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-176694/31	Lab Control Sample	Total/NA	Water	8081A	
PEM 240-176694/5	PEM		Water	8081A	

Analysis Batch: 177258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8081A	176661
LCS 240-176661/6-A	Lab Control Sample	Total/NA	Solid	8081A	176661
MB 240-176661/5-A	Method Blank	Total/NA	Solid	8081A	176661
MRL 240-177258/29	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/30	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/31	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/47	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/48	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/49	Lab Control Sample	Total/NA	Solid	8081A	
PEM 240-177258/27	PEM		Solid	8081A	

Analysis Batch: 177320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8151A	176663
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	8151A	176663
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8151A	176663
LCS 240-176663/6-A	Lab Control Sample	Total/NA	Solid	8151A	176663
MB 240-176663/5-A	Method Blank	Total/NA	Solid	8151A	176663
MRL 240-177320/15	Lab Control Sample	Total/NA	Solid	8151A	
MRL 240-177320/7	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 177491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2 - RE	079SB-0384-0001-IDW	TCLP	Water	3520C	176620
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	3520C	176620
LCS 240-177491/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-177491/3-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 178086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2 - RE	079SB-0384-0001-IDW	TCLP	Water	8081A	177491
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	8081A	177491

GC Semi VOA (Continued)

Analysis Batch: 178086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-177491/4-A	Lab Control Sample	Total/NA	Water	8081A	177491
MB 240-177491/3-A	Method Blank	Total/NA	Water	8081A	177491
MRL 240-178086/10	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/11	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/12	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/17	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/18	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/19	Lab Control Sample	Total/NA	Water	8081A	
PEM 240-178086/33	PEM		Water	8081A	
PEM 240-178086/5	PEM		Water	8081A	

HPLC/IC

Prep Batch: 70962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330-Prep	
LCS 320-70962/2-A	Lab Control Sample	Total/NA	Water	8330-Prep	
MB 320-70962/1-A	Method Blank	Total/NA	Water	8330-Prep	

Prep Batch: 71039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	Filtration	
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	Filtration	
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	Filtration	
LCS 320-71039/2-A	Lab Control Sample	Total/NA	Water	Filtration	
MB 320-71039/1-A	Method Blank	Total/NA	Water	Filtration	

Analysis Batch: 71173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330B	70962
LCS 320-70962/2-A	Lab Control Sample	Total/NA	Water	8330B	70962
MB 320-70962/1-A	Method Blank	Total/NA	Water	8330B	70962

Analysis Batch: 71582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330 Modified	71039
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	8330 Modified	71039
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	8330 Modified	71039
LCS 320-71039/2-A	Lab Control Sample	Total/NA	Water	8330 Modified	71039
MB 320-71039/1-A	Method Blank	Total/NA	Water	8330 Modified	71039

Analysis Batch: 71996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330B	70962

Metals

Prep Batch: 176157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 176157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	3005A	
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	3005A	
240-49236-3 PDS	079SB-0385-0001-SW	Total Recoverable	Water	3005A	
240-49236-3 SD	079SB-0385-0001-SW	Total Recoverable	Water	3005A	
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	3005A	
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 176162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	7470A	
240-49236-4	079SB-0386-0001-RB	Total/NA	Water	7470A	
LCS 240-176162/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-176162/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 176216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CRA 240-176216/9-A	DL		Water	7470A	

Analysis Batch: 176385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	7470A	176162
240-49236-4	079SB-0386-0001-RB	Total/NA	Water	7470A	176162
CRA 240-176216/9-A	DL		Water	7470A	176216
CRA 240-176216/9-A	DL		Water	7470A	176216
LCS 240-176162/2-A	Lab Control Sample	Total/NA	Water	7470A	176162
MB 240-176162/1-A	Method Blank	Total/NA	Water	7470A	176162

Analysis Batch: 176490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 PDS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 SD	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	6020	176157
CRI 240-176490/42	DL		Water	6020	
CRI 240-176490/9	DL		Water	6020	
ICSA 240-176490/10	ICS		Water	6020	
ICSAB 240-176490/11	ICS		Water	6020	
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	6020	176157
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	6020	176157

Leach Batch: 176620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 PDS	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 SD	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	

Metals (Continued)

Leach Batch: 176620 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-176620/1-B	Method Blank	TCLP	Solid	1311	
LB 240-176620/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 176660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 PDS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 PDS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 SD	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 SD	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	6020	176157
CRI 240-176660/65	DL		Water	6020	
CRI 240-176660/9	DL		Water	6020	
ICSA 240-176660/10	ICS		Water	6020	
ICSAB 240-176660/11	ICS		Water	6020	
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	6020	176157
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	6020	176157

Prep Batch: 176697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-1 PDS	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-1 SD	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	3010A	176620
LB 240-176620/1-B	Method Blank	TCLP	Solid	3010A	176620
LCS 240-176697/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-176697/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 176701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	7470A	176620
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	7470A	176620
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	7470A	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	7470A	176620
LB 240-176620/1-C	Method Blank	TCLP	Solid	7470A	176620
LCS 240-176701/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-176701/2-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 176762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CRA 240-176762/9-A	DL		Solid	7470A	

Metals (Continued)

Analysis Batch: 176894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	7470A	176701
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	7470A	176701
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	7470A	176701
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	7470A	176701
CRA 240-176762/9-A	DL		Solid	7470A	176762
CRA 240-176762/9-A	DL		Solid	7470A	176762
LB 240-176620/1-C	Method Blank	TCLP	Solid	7470A	176701
LCS 240-176701/3-A	Lab Control Sample	Total/NA	Solid	7470A	176701
MB 240-176701/2-A	Method Blank	Total/NA	Solid	7470A	176701

Analysis Batch: 176918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 PDS	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 PDS	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 SD	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 SD	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	6010B	176697
CRI 240-176918/44	DL		Solid	6010B	
CRI 240-176918/6	DL		Solid	6010B	
ICSA 240-176918/8	ICS		Solid	6010B	
ICSAB 240-176918/9	ICS		Solid	6010B	
LB 240-176620/1-B	Method Blank	TCLP	Solid	6010B	176697
LCS 240-176697/3-A	Lab Control Sample	Total/NA	Solid	6010B	176697
MB 240-176697/2-A	Method Blank	Total/NA	Solid	6010B	176697

Analysis Batch: 177115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 PDS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 SD	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	6020	176157
CRI 240-177115/10	DL		Water	6020	
CRI 240-177115/120	DL		Water	6020	
ICSA 240-177115/11	ICS		Water	6020	
ICSAB 240-177115/12	ICS		Water	6020	
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	6020	176157
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	6020	176157

General Chemistry

Pre Prep Batch: 71147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	353.2 (NCell)	
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	353.2 (NCell)	
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	353.2 (NCell)	
LCS 320-71147/2-B	Lab Control Sample	Total/NA	Water	353.2 (NCell)	
MB 320-71147/1-B	Method Blank	Total/NA	Water	353.2 (NCell)	

Prep Batch: 71630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	353 (NCell-Hyd)	71147
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	353 (NCell-Hyd)	71147
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	353 (NCell-Hyd)	71147
LCS 320-71147/2-B	Lab Control Sample	Total/NA	Water	353 (NCell-Hyd)	71147
MB 320-71147/1-B	Method Blank	Total/NA	Water	353 (NCell-Hyd)	71147

Analysis Batch: 71741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	WS-WC-0050	71630
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	WS-WC-0050	71630
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	WS-WC-0050	71630
LCS 320-71147/2-B	Lab Control Sample	Total/NA	Water	WS-WC-0050	71630
MB 320-71147/1-B	Method Blank	Total/NA	Water	WS-WC-0050	71630
MRL 320-71741/11	Lab Control Sample	Total/NA	Water	WS-WC-0050	

Analysis Batch: 175905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	Moisture	

Analysis Batch: 176141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9045C	
240-49236-1 DU	079SB-0383-0001-IDW	Total/NA	Solid	9045C	
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9040C	
LCS 240-176141/2	Lab Control Sample	Total/NA	Water	9040C	

Prep Batch: 176155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9012A	
LCS 240-176155/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 240-176155/1-A	Method Blank	Total/NA	Solid	9012A	

Analysis Batch: 176246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9012A	176155
LCS 240-176155/2-A	Lab Control Sample	Total/NA	Solid	9012A	176155
MB 240-176155/1-A	Method Blank	Total/NA	Solid	9012A	176155

Prep Batch: 176308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9030B	
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9030B	
240-49236-2 MS	079SB-0384-0001-IDW	Total/NA	Water	9030B	

General Chemistry (Continued)

Prep Batch: 176308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2 MSD	079SB-0384-0001-IDW	Total/NA	Water	9030B	
LCS 240-176308/15-A	Lab Control Sample	Total/NA	Water	9030B	
LCS 240-176308/2-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 240-176308/14-A	Method Blank	Total/NA	Water	9030B	
MB 240-176308/1-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 176391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9034	176308
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9034	176308
240-49236-2 MS	079SB-0384-0001-IDW	Total/NA	Water	9034	176308
240-49236-2 MSD	079SB-0384-0001-IDW	Total/NA	Water	9034	176308
LCS 240-176308/15-A	Lab Control Sample	Total/NA	Water	9034	176308
LCS 240-176308/2-A	Lab Control Sample	Total/NA	Solid	9034	176308
MB 240-176308/14-A	Method Blank	Total/NA	Water	9034	176308
MB 240-176308/1-A	Method Blank	Total/NA	Solid	9034	176308

Analysis Batch: 176597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	1010	
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	1010	
240-49236-2 DU	079SB-0384-0001-IDW	Total/NA	Water	1010	
LCS 240-176597/1	Lab Control Sample	Total/NA	Solid	1010	

Prep Batch: 177636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9012A	
LCS 240-177636/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 240-177636/1-A	Method Blank	Total/NA	Water	9012A	

Analysis Batch: 177730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9012A	177636
LCS 240-177636/2-A	Lab Control Sample	Total/NA	Water	9012A	177636
MB 240-177636/1-A	Method Blank	Total/NA	Water	9012A	177636
MRL 240-177730/52	Lab Control Sample	Total/NA	Water	9012A	

Client Sample ID: 079SB-0383-0001-IDW

Lab Sample ID: 240-49236-1

Date Collected: 04/10/15 08:00

Matrix: Solid

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			176667	04/15/15 18:45	DRJ	TAL CAN
TCLP	Analysis	8260B		1	177316	04/21/15 19:11	TJL1	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3520C			176654	04/16/15 08:13	CSC	TAL CAN
TCLP	Analysis	8270C		1	177779	04/24/15 12:18	MRU	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3520C			176661	04/16/15 08:22	CSC	TAL CAN
TCLP	Analysis	8081A		1	177258	04/22/15 04:55	BPM	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	8151A			176663	04/16/15 08:24	CSC	TAL CAN
TCLP	Analysis	8151A		1	177320	04/21/15 20:53	DEB	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3010A			176697	04/16/15 09:57	WAL	TAL CAN
TCLP	Analysis	6010B		1	176918	04/17/15 08:35	KLC	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3010A			176697	04/16/15 09:57	WAL	TAL CAN
TCLP	Analysis	6010B		4	176918	04/17/15 09:10	KLC	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	7470A			176701	04/16/15 14:00	WAL	TAL CAN
TCLP	Analysis	7470A		1	176894	04/17/15 10:44	BW	TAL CAN
Total/NA	Analysis	1010		1	176597	04/15/15 09:50	TPH	TAL CAN
Total/NA	Prep	9012A			176155	04/13/15 09:56	SEM	TAL CAN
Total/NA	Analysis	9012A		1	176246	04/13/15 14:29	SEM	TAL CAN
Total/NA	Prep	9030B			176308	04/14/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	176391	04/14/15 13:02	BLW	TAL CAN
Total/NA	Analysis	9045C		1	176141	04/13/15 12:45	SEM	TAL CAN
Total/NA	Analysis	Moisture		1	175905	04/10/15 18:17	SEM	TAL CAN

Client Sample ID: 079SB-0384-0001-IDW

Lab Sample ID: 240-49236-2

Date Collected: 04/10/15 08:30

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			176667	04/15/15 18:45	DRJ	TAL CAN
TCLP	Analysis	8260B		1	177316	04/21/15 19:36	TJL1	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	3520C			176654	04/16/15 08:13	CSC	TAL CAN
TCLP	Analysis	8270C		4	177779	04/24/15 12:43	MRU	TAL CAN
TCLP	Leach	1311	RE		176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	3520C	RE		177491	04/22/15 15:15	JDR	TAL CAN
TCLP	Analysis	8081A	RE	1	178086	04/27/15 15:27	BPM	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	8151A			176663	04/16/15 08:24	CSC	TAL CAN
TCLP	Analysis	8151A		1	177320	04/21/15 21:41	DEB	TAL CAN

Client Sample ID: 079SB-0384-0001-IDW

Lab Sample ID: 240-49236-2

Date Collected: 04/10/15 08:30

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	3010A			176697	04/16/15 09:57	WAL	TAL CAN
TCLP	Analysis	6010B		1	176918	04/17/15 09:06	KLC	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	7470A			176701	04/16/15 14:00	WAL	TAL CAN
TCLP	Analysis	7470A		1	176894	04/17/15 10:49	BW	TAL CAN
Total/NA	Analysis	1010		1	176597	04/15/15 06:57	TPH	TAL CAN
Total/NA	Prep	9012A			177636	04/23/15 11:18	DTN	TAL CAN
Total/NA	Analysis	9012A		1	177730	04/23/15 14:37	SEM	TAL CAN
Total/NA	Prep	9030B			176308	04/14/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	176391	04/14/15 13:11	BLW	TAL CAN
Total/NA	Analysis	9040C		1	176141	04/13/15 11:27	SEM	TAL CAN

Client Sample ID: 079SB-0385-0001-SW

Lab Sample ID: 240-49236-3

Date Collected: 04/10/15 08:45

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	176298	04/14/15 12:04	RJQ	TAL CAN
Total/NA	Prep	3520C			176086	04/13/15 06:18	CSC	TAL CAN
Total/NA	Analysis	8270C		1	177779	04/24/15 11:53	MRU	TAL CAN
Total/NA	Prep	3520C	RE		176509	04/15/15 09:05	CSC	TAL CAN
Total/NA	Analysis	8081A	RE	1	176694	04/16/15 20:43	BPM	TAL CAN
Total/NA	Prep	3520C			176083	04/13/15 06:11	CSC	TAL CAN
Total/NA	Analysis	8082		1	176376	04/14/15 14:05	KMG	TAL CAN
Total/NA	Prep	Filtration			71039	04/13/15 19:24	JER	TAL SAC
Total/NA	Analysis	8330 Modified		1	71582	04/20/15 17:05	YPH	TAL SAC
Total/NA	Prep	8330-Prep			70962	04/13/15 09:25	HJA	TAL SAC
Total/NA	Analysis	8330B		1	71173	04/15/15 20:09	YPH	TAL SAC
Total/NA	Prep	8330-Prep			70962	04/13/15 09:25	HJA	TAL SAC
Total/NA	Analysis	8330B		1	71996	04/24/15 02:59	YPH	TAL SAC
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176490	04/14/15 11:16	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176660	04/15/15 13:07	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		5	176660	04/15/15 13:43	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	177115	04/20/15 17:32	AS1	TAL CAN
Total/NA	Prep	7470A			176162	04/13/15 14:00	WAL	TAL CAN
Total/NA	Analysis	7470A		1	176385	04/14/15 11:15	BW	TAL CAN
Total/NA	Pre Prep	353.2 (NCell)			71147	04/15/15 08:50	HJA	TAL SAC
Total/NA	Prep	353 (NCell-Hyd)			71630	04/21/15 06:08	HJA	TAL SAC
Total/NA	Analysis	WS-WC-0050		1	71741	04/21/15 14:53	JCB	TAL SAC

Lab Chronicle

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Client Sample ID: 079SB-0386-0001-RB

Lab Sample ID: 240-49236-4

Date Collected: 04/10/15 08:50

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176490	04/14/15 11:43	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176660	04/15/15 13:31	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	177115	04/20/15 17:51	AS1	TAL CAN
Total/NA	Prep	7470A			176162	04/13/15 14:00	WAL	TAL CAN
Total/NA	Analysis	7470A		1	176385	04/14/15 11:16	BW	TAL CAN

Client Sample ID: 079SB-0387-0001-RB

Lab Sample ID: 240-49236-5

Date Collected: 04/10/15 09:00

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	176298	04/14/15 12:27	RJQ	TAL CAN

Client Sample ID: 079SB-0388-0001-TB

Lab Sample ID: 240-49236-6

Date Collected: 04/10/15 07:30

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	176298	04/14/15 12:50	RJQ	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	04-30-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-15
Arizona	State Program	9	AZ0708	08-11-15
Arkansas DEQ	State Program	6	88-0691	06-17-15
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-15
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-15
Hawaii	State Program	9	N/A	01-29-16
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	10-31-15
Louisiana	NELAP	6	30612	06-30-15
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-15
New Jersey	NELAP	2	CA005	06-30-15
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Oregon	NELAP Secondary AB	10	E87570	06-30-15
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-08-TX	05-31-15
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17

* Certification renewal pending - certification considered valid.

Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Washington	State Program	10	C581	05-05-15
West Virginia (DW)	State Program	3	9930C	12-31-15
Wyoming	State Program	8	8TMS-Q	01-29-16

Method Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8081A	Organochlorine Pesticides (GC)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
8151A	Herbicides (GC)	SW846	TAL CAN
8330 Modified	Nitroguanidine (HPLC)	SW846	TAL SAC
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9040C	pH	SW846	TAL CAN
9045C	pH	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
WS-WC-0050	Nitrocellulose	TAL-SAC	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-49236-1	079SB-0383-0001-IDW	Solid	04/10/15 08:00	04/10/15 14:21
240-49236-2	079SB-0384-0001-IDW	Water	04/10/15 08:30	04/10/15 14:21
240-49236-3	079SB-0385-0001-SW	Water	04/10/15 08:45	04/10/15 14:21
240-49236-4	079SB-0386-0001-RB	Water	04/10/15 08:50	04/10/15 14:21
240-49236-5	079SB-0387-0001-RB	Water	04/10/15 09:00	04/10/15 14:21
240-49236-6	079SB-0388-0001-TB	Water	04/10/15 07:30	04/10/15 14:21

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A3UX12 Analysis Batch Number: 170010

Lab Sample ID: STD8260 240-170010/6 ICIS Client Sample ID:

Date Analyzed: 02/28/15 13:55 Lab File ID: U1243086.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.17	Split Peak	laveyt	02/28/15 14:51

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A3UX12 Analysis Batch Number: 177316

Lab Sample ID: CCV 240-177316/3 Client Sample ID:

Date Analyzed: 04/21/15 16:23 Lab File ID: U1243873.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.16	Split Peak	laveyt	04/21/15 17:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 177011

Lab Sample ID: STD4 240-177011/3 IC Client Sample ID:

Date Analyzed: 04/20/15 09:14 Lab File ID: 50420003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.08	Poor Chromatography	ulmanm	04/20/15 09:44
Pyridine	3.62	Poor Chromatography	ulmanm	04/20/15 09:44
Benzoic acid	7.18	Poor Chromatography	ulmanm	04/20/15 09:44

Lab Sample ID: STD3 240-177011/4 IC Client Sample ID:

Date Analyzed: 04/20/15 09:40 Lab File ID: 50420004.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.07	Poor Chromatography	ulmanm	04/20/15 10:06
2,4-Dinitrophenol	9.02	Poor Chromatography	ulmanm	04/20/15 10:06
Dibenz(a,h)anthracene	16.31	Poor Chromatography	ulmanm	04/20/15 10:06

Lab Sample ID: STD2 240-177011/5 IC Client Sample ID:

Date Analyzed: 04/20/15 10:05 Lab File ID: 50420005.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	3.57	Poor Chromatography	ulmanm	04/20/15 11:55
Pyridine	3.63	Poor Chromatography	ulmanm	04/20/15 11:55
4-Chloroaniline	7.53	Poor Chromatography	ulmanm	04/20/15 11:55
Indeno[1,2,3-cd]pyrene	16.30	Poor Chromatography	ulmanm	04/20/15 11:55
Dibenz(a,h)anthracene	16.31	Poor Chromatography	ulmanm	04/20/15 11:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 177011

Lab Sample ID: STD1 240-177011/6 IC Client Sample ID:

Date Analyzed: 04/20/15 10:31 Lab File ID: 50420006.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	16.30	Poor Chromatography	ulmanm	04/20/15 11:57
Dibenz(a,h)anthracene	16.31	Poor Chromatography	ulmanm	04/20/15 11:57
Benzo[g,h,i]perylene	16.90	Poor Chromatography	ulmanm	04/20/15 11:57

Lab Sample ID: STD9 240-177011/7 IC Client Sample ID:

Date Analyzed: 04/20/15 10:56 Lab File ID: 50420007.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.09	Poor Chromatography	ulmanm	04/20/15 11:59
Benzoic acid	7.26	Poor Chromatography	ulmanm	04/20/15 11:59
Caprolactam	7.84	Poor Chromatography	ulmanm	04/20/15 11:59

Lab Sample ID: STD8 240-177011/8 IC Client Sample ID:

Date Analyzed: 04/20/15 11:22 Lab File ID: 50420008.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.25	Poor Chromatography	ulmanm	04/20/15 12:02
4-Chloroaniline	7.54	Poor Chromatography	ulmanm	04/20/15 12:02
Caprolactam	7.83	Poor Chromatography	ulmanm	04/20/15 12:02

Lab Sample ID: STD7 240-177011/9 IC Client Sample ID:

Date Analyzed: 04/20/15 11:47 Lab File ID: 50420009.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.09	Poor Chromatography	ulmanm	04/20/15 12:14
Caprolactam	7.83	Poor Chromatography	ulmanm	04/20/15 12:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 177011

Lab Sample ID: STD6 240-177011/10 ICIS Client Sample ID:

Date Analyzed: 04/20/15 12:41 Lab File ID: 50420010.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.08	Poor Chromatography	ulmanm	04/20/15 13:08

Lab Sample ID: ICV 240-177011/11 Client Sample ID:

Date Analyzed: 04/20/15 13:07 Lab File ID: 50420011.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.08	Poor Chromatography	ulmanm	04/20/15 13:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 177779

Lab Sample ID: MRL 240-177779/3 Client Sample ID:

Date Analyzed: 04/24/15 08:34 Lab File ID: 50424003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Chloroaniline	7.48	Poor Chromatography	ulmanm	04/24/15 09:01

Lab Sample ID: LCS 240-176086/3-A Client Sample ID:

Date Analyzed: 04/24/15 09:48 Lab File ID: 50424006.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.15	Poor Chromatography	ulmanm	04/24/15 10:36

Lab Sample ID: 240-49236-1 Client Sample ID: 079SB-0383-0001-IDW

Date Analyzed: 04/24/15 12:18 Lab File ID: 50424012.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	3.49	Poor Chromatography	ulmanm	04/24/15 13:09

Lab Sample ID: MRL 240-177779/17 Client Sample ID:

Date Analyzed: 04/24/15 14:23 Lab File ID: 50424017.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.15	Poor Chromatography	ulmanm	04/24/15 15:06

Lab Sample ID: LODV 240-177779/18 Client Sample ID:

Date Analyzed: 04/24/15 14:52 Lab File ID: 50424018.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	16.15	Poor Chromatography	ulmanm	04/24/15 15:18
Indeno[1,2,3-cd]pyrene	16.15	Poor Chromatography	ulmanm	04/24/15 15:18
Benzo[g,h,i]perylene	16.73	Poor Chromatography	ulmanm	04/24/15 15:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 177779

Lab Sample ID: LODV 240-177779/19 Client Sample ID:

Date Analyzed: 04/24/15 15:17 Lab File ID: 50424019.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	3.48	Poor Chromatography	ulmanm	04/24/15 15:46

Lab Sample ID: LODV 240-177779/20 Client Sample ID:

Date Analyzed: 04/24/15 15:42 Lab File ID: 50424020.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.13	Poor Chromatography	ulmanm	04/24/15 16:14

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/12 IC Client Sample ID:

Date Analyzed: 03/31/15 15:37 Lab File ID: P3033112.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:31

Lab Sample ID: STD 240-174448/12 IC Client Sample ID:

Date Analyzed: 03/31/15 15:37 Lab File ID: P3033112.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:31

Lab Sample ID: STD 240-174448/13 IC Client Sample ID:

Date Analyzed: 03/31/15 16:01 Lab File ID: P3033113.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:31

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/13 IC Client Sample ID:

Date Analyzed: 03/31/15 16:01 Lab File ID: P3033113.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:31

Lab Sample ID: STD 240-174448/14 ICRT Client Sample ID:

Date Analyzed: 03/31/15 16:24 Lab File ID: P3033114.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	10.81	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: STD 240-174448/14 ICRT Client Sample ID:

Date Analyzed: 03/31/15 16:24 Lab File ID: P3033114.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:32

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/15 IC Client Sample ID:

Date Analyzed: 03/31/15 16:47 Lab File ID: P3033115.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: STD 240-174448/15 IC Client Sample ID:

Date Analyzed: 03/31/15 16:47 Lab File ID: P3033115.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: STD 240-174448/16 IC Client Sample ID:

Date Analyzed: 03/31/15 17:11 Lab File ID: P3033116.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 4	10.81	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:41

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/16 IC Client Sample ID:

Date Analyzed: 03/31/15 17:11 Lab File ID: P3033116.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	11.27	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: ICV 240-174448/17 Client Sample ID:

Date Analyzed: 03/31/15 17:34 Lab File ID: P3033117.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 5	10.93	Baseline Event	matthewsb	04/01/15 08:40

Lab Sample ID: ICV 240-174448/17 Client Sample ID:

Date Analyzed: 03/31/15 17:34 Lab File ID: P3033117.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:42

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/18 IC Client Sample ID:

Date Analyzed: 03/31/15 17:57 Lab File ID: P3033118.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical) Peak 1	6.42	Baseline Event	matthewsb	04/01/15 08:44
Chlordane (technical) Peak 2	8.06	Baseline Event	matthewsb	04/01/15 08:44
Chlordane (technical) Peak 3	9.38	Baseline Event	matthewsb	04/01/15 08:44
Chlordane (technical) Peak 4	9.67	Baseline Event	matthewsb	04/01/15 08:44

Lab Sample ID: PEM 240-174448/24 Client Sample ID:

Date Analyzed: 03/31/15 20:11 Lab File ID: P3033124.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.18	Baseline Event	matthewsb	04/01/15 08:46

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 176694

Lab Sample ID: PEM 240-176694/5 Client Sample ID:

Date Analyzed: 04/16/15 15:14 Lab File ID: P3041605.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.08	Baseline Event	matthewsb	04/17/15 08:11

Lab Sample ID: CCV 240-176694/12 CCVRT Client Sample ID:

Date Analyzed: 04/16/15 17:59 Lab File ID: P3041612.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.63	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 2	10.09	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 5	10.85	Baseline Event	matthewsb	04/17/15 08:18

Lab Sample ID: CCV 240-176694/12 CCVRT Client Sample ID:

Date Analyzed: 04/16/15 17:59 Lab File ID: P3041612.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 4	12.36	Baseline Event	matthewsb	04/17/15 08:18
Toxaphene Peak 5	12.45	Baseline Event	matthewsb	04/17/15 08:18

Lab Sample ID: CCV 240-176694/14 CCVRT Client Sample ID:

Date Analyzed: 04/16/15 18:47 Lab File ID: P3041614.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Heptachlor	5.29	Baseline Event	matthewsb	04/17/15 08:20

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 176694

Lab Sample ID: MRL 240-176694/15 Client Sample ID:

Date Analyzed: 04/16/15 19:10 Lab File ID: P3041615.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 2	10.09	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 5	10.85	Baseline Event	matthewsb	04/17/15 08:21

Lab Sample ID: MRL 240-176694/15 Client Sample ID:

Date Analyzed: 04/16/15 19:10 Lab File ID: P3041615.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 4	12.36	Baseline Event	matthewsb	04/17/15 08:21
Toxaphene Peak 5	12.45	Baseline Event	matthewsb	04/17/15 08:21

Lab Sample ID: MRL 240-176694/30 Client Sample ID:

Date Analyzed: 04/17/15 00:56 Lab File ID: P3041630.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 2	10.09	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 5	10.85	Baseline Event	matthewsb	04/17/15 08:30

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 176694

Lab Sample ID: MRL 240-176694/30 Client Sample ID:

Date Analyzed: 04/17/15 00:56 Lab File ID: P3041630.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 4	12.36	Baseline Event	matthewsb	04/17/15 08:30
Toxaphene Peak 5	12.45	Baseline Event	matthewsb	04/17/15 08:30

Lab Sample ID: CCV 240-176694/34 Client Sample ID:

Date Analyzed: 04/17/15 02:26 Lab File ID: P3041634.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/17/15 08:32

Lab Sample ID: CCV 240-176694/34 Client Sample ID:

Date Analyzed: 04/17/15 02:26 Lab File ID: P3041634.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 4	12.36	Baseline Event	matthewsb	04/17/15 08:32
Toxaphene Peak 5	12.45	Baseline Event	matthewsb	04/17/15 08:32

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 177258

Lab Sample ID: CCV 240-177258/8 CCVRT Client Sample ID:

Date Analyzed: 04/21/15 15:32 Lab File ID: P3042108.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/22/15 07:18

Lab Sample ID: CCV 240-177258/8 CCVRT Client Sample ID:

Date Analyzed: 04/21/15 15:32 Lab File ID: P3042108.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/22/15 07:18

Lab Sample ID: PEM 240-177258/27 Client Sample ID:

Date Analyzed: 04/21/15 22:49 Lab File ID: P3042127.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.05	Baseline Event	matthewsb	04/22/15 07:28

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 177258

Lab Sample ID: MRL 240-177258/29 Client Sample ID:

Date Analyzed: 04/21/15 23:35 Lab File ID: P3042129.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 5	10.85	Baseline Event	matthewsb	04/22/15 07:29

Lab Sample ID: MRL 240-177258/30 Client Sample ID:

Date Analyzed: 04/21/15 23:58 Lab File ID: P3042130.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical) Peak 1	5.17	Baseline Event	matthewsb	04/22/15 07:30
Chlordane (technical) Peak 2	6.06	Baseline Event	matthewsb	04/22/15 07:30
Chlordane (technical) Peak 3	7.34	Baseline Event	matthewsb	04/22/15 07:30
Chlordane (technical) Peak 4	7.68	Baseline Event	matthewsb	04/22/15 07:30

Lab Sample ID: CCV 240-177258/40 Client Sample ID:

Date Analyzed: 04/22/15 03:48 Lab File ID: P3042140.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
beta-BHC	4.78	Baseline Event	matthewsb	04/22/15 07:35

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 177258

Lab Sample ID: MRL 240-177258/47 Client Sample ID:

Date Analyzed: 04/22/15 06:25 Lab File ID: P3042147.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/22/15 07:37

Lab Sample ID: MRL 240-177258/47 Client Sample ID:

Date Analyzed: 04/22/15 06:25 Lab File ID: P3042147.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 4	12.36	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/22/15 07:37

Lab Sample ID: MRL 240-177258/48 Client Sample ID:

Date Analyzed: 04/22/15 06:49 Lab File ID: P3042148.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical) Peak 1	5.17	Baseline Event	matthewsb	04/22/15 07:38
Chlordane (technical) Peak 2	6.06	Baseline Event	matthewsb	04/22/15 07:38
Chlordane (technical) Peak 3	7.34	Baseline Event	matthewsb	04/22/15 07:38
Chlordane (technical) Peak 4	7.68	Baseline Event	matthewsb	04/22/15 07:38

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 177258

Lab Sample ID: CCV 240-177258/52 Client Sample ID:

Date Analyzed: 04/22/15 08:22 Lab File ID: P3042152.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/22/15 08:57

Lab Sample ID: CCV 240-177258/52 Client Sample ID:

Date Analyzed: 04/22/15 08:22 Lab File ID: P3042152.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/22/15 08:56

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 178086

Lab Sample ID: PEM 240-178086/5 Client Sample ID:

Date Analyzed: 04/27/15 12:17 Lab File ID: P3042705.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.07	Baseline Event	matthewsb	04/27/15 13:50
4,4'-DDD	9.32	Baseline Event	matthewsb	04/27/15 13:50
Endrin aldehyde	10.21	Baseline Event	matthewsb	04/27/15 13:50

Lab Sample ID: CCV 240-178086/6 CCVRT Client Sample ID:

Date Analyzed: 04/27/15 12:40 Lab File ID: P3042706.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.61	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 2	10.07	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 3	10.38	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 4	10.72	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 5	10.83	Baseline Event	matthewsb	04/27/15 13:51

Lab Sample ID: CCV 240-178086/6 CCVRT Client Sample ID:

Date Analyzed: 04/27/15 12:40 Lab File ID: P3042706.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.02	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 2	11.19	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 3	11.61	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/27/15 13:51
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/27/15 13:51

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 178086

Lab Sample ID: MRL 240-178086/10 Client Sample ID:

Date Analyzed: 04/27/15 14:15 Lab File ID: P3042710.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.61	Baseline Event	matthewsb	04/27/15 14:40
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/27/15 14:40
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/27/15 14:40
Toxaphene Peak 4	10.73	Baseline Event	matthewsb	04/27/15 14:40
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/27/15 14:40

Lab Sample ID: MRL 240-178086/17 Client Sample ID:

Date Analyzed: 04/27/15 17:03 Lab File ID: P3042717.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.61	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 2	10.07	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 4	10.73	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/28/15 07:43

Lab Sample ID: MRL 240-178086/17 Client Sample ID:

Date Analyzed: 04/27/15 17:03 Lab File ID: P3042717.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.02	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 2	11.19	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 3	11.61	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/28/15 07:43
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/28/15 07:43

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 178086

Lab Sample ID: CCV 240-178086/20 Client Sample ID:

Date Analyzed: 04/27/15 18:13 Lab File ID: P3042720.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.61	Baseline Event	matthewsb	04/28/15 07:47
Toxaphene Peak 2	10.07	Baseline Event	matthewsb	04/28/15 07:47
Toxaphene Peak 3	10.38	Baseline Event	matthewsb	04/28/15 07:47
Toxaphene Peak 4	10.72	Baseline Event	matthewsb	04/28/15 07:47
Toxaphene Peak 5	10.83	Baseline Event	matthewsb	04/28/15 07:47

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP1 Analysis Batch Number: 177103

Lab Sample ID: STD1 240-177103/7 IC Client Sample ID:

Date Analyzed: 04/20/15 14:50 Lab File ID: P1042007.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	1.27	Baseline Event	bolgrind	04/21/15 11:34
2,4-DB	10.02	Baseline Event	bolgrind	04/21/15 11:34

Lab Sample ID: STD1 240-177103/7 IC Client Sample ID:

Date Analyzed: 04/20/15 14:50 Lab File ID: P1042007.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-DB	11.10	Baseline Event	bolgrind	04/21/15 11:34
Dinoseb	11.47	Baseline Event	bolgrind	04/21/15 11:34

Lab Sample ID: STD2 240-177103/8 IC Client Sample ID:

Date Analyzed: 04/20/15 15:14 Lab File ID: P1042008.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	1.27	Baseline Event	bolgrind	04/21/15 11:30

Lab Sample ID: STD2 240-177103/8 IC Client Sample ID:

Date Analyzed: 04/20/15 15:14 Lab File ID: P1042008.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	1.44	Baseline Event	bolgrind	04/21/15 11:30
2,4-DB	11.10	Baseline Event	bolgrind	04/21/15 11:30

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP1 Analysis Batch Number: 177103

Lab Sample ID: STD3 240-177103/9 ICRT Client Sample ID:

Date Analyzed: 04/20/15 15:38 Lab File ID: P1042009.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-DB	11.09	Baseline Event	bolgrind	04/21/15 11:31

Lab Sample ID: STD6 240-177103/12 IC Client Sample ID:

Date Analyzed: 04/20/15 16:50 Lab File ID: P1042012.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dinoseb	11.22	Baseline Event	bolgrind	04/21/15 11:32

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP1 Analysis Batch Number: 177320

Lab Sample ID: CCV 240-177320/8 CCVRT Client Sample ID:

Date Analyzed: 04/21/15 20:30 Lab File ID: P1042108.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D	8.19	Baseline Event	bolgrind	04/24/15 11:12

Lab Sample ID: 240-49236-2 Client Sample ID: 079SB-0384-0001-IDW

Date Analyzed: 04/21/15 21:41 Lab File ID: P1042111.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid	6.97	Split Peak	bolgrind	04/22/15 11:04

Lab Sample ID: 240-49236-2 Client Sample ID: 079SB-0384-0001-IDW

Date Analyzed: 04/21/15 21:41 Lab File ID: P1042111.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D	9.03	Baseline Event	bolgrind	04/22/15 11:04

Lab Sample ID: CCV 240-177320/14 Client Sample ID:

Date Analyzed: 04/21/15 22:52 Lab File ID: P1042114.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D	8.19	Baseline Event	bolgrind	04/22/15 11:05

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: PDA1 Analysis Batch Number: 70867

Lab Sample ID: STD03 320-70867/5 IC Client Sample ID:

Date Analyzed: 04/10/15 17:35 Lab File ID: 320-0020944-005-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.25	Incomplete Integration	huangyun	04/13/15 10:21

Lab Sample ID: STD02 320-70867/43 IC Client Sample ID:

Date Analyzed: 04/10/15 19:22 Lab File ID: STD02-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.24	Incomplete Integration	huangyun	04/13/15 10:20

Lab Sample ID: LODV 320-70867/12 Client Sample ID:

Date Analyzed: 04/10/15 19:57 Lab File ID: 320-0020944-012-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.26	Incomplete Integration	huangyun	04/13/15 10:36

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: PDA1 Analysis Batch Number: 71582

Lab Sample ID: CCVL 320-71582/3 Client Sample ID:

Date Analyzed: 04/20/15 12:57 Lab File ID: 320-0021160-003-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.04	Baseline	huangyun	04/20/15 13:40

Lab Sample ID: CCVL 320-71582/21 Client Sample ID:

Date Analyzed: 04/20/15 18:17 Lab File ID: 320-0021160-021-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	3.92	Incomplete Integration	huangyun	04/20/15 18:26

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC10 Analysis Batch Number: 67883

Lab Sample ID: IC 320-67883/4 Client Sample ID:

Date Analyzed: 03/11/15 15:47 Lab File ID: J000007.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.41	Baseline	phant	03/12/15 06:49
2,6-Dinitrotoluene	18.50	Baseline	phant	03/12/15 06:49
2,4-Dinitrotoluene	19.06	Baseline	phant	03/12/15 06:49
2-Nitrotoluene	22.41	Baseline	phant	03/12/15 06:49
4-Nitrotoluene	24.05	Baseline	phant	03/12/15 06:49
3-Nitrotoluene	25.84	Baseline	phant	03/12/15 06:49

Lab Sample ID: IC 320-67883/5 Client Sample ID:

Date Analyzed: 03/11/15 16:31 Lab File ID: J000008.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.41	Baseline	phant	03/12/15 06:31
2-Nitrotoluene	22.44	Baseline	phant	03/12/15 06:31
4-Nitrotoluene	24.07	Baseline	phant	03/12/15 06:31
3-Nitrotoluene	25.84	Baseline	phant	03/12/15 06:31
PETN	28.30	Baseline	phant	03/12/15 06:18

Lab Sample ID: IC 320-67883/6 Client Sample ID:

Date Analyzed: 03/11/15 17:14 Lab File ID: J000009.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.40	Baseline	phant	03/12/15 06:38
2-Nitrotoluene	22.43	Baseline	phant	03/12/15 06:39
4-Nitrotoluene	24.07	Baseline	phant	03/12/15 06:39
3-Nitrotoluene	25.83	Baseline	phant	03/12/15 06:39
PETN	28.33	Baseline	phant	03/12/15 06:17

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC10 Analysis Batch Number: 67883

Lab Sample ID: IC 320-67883/7 Client Sample ID:

Date Analyzed: 03/11/15 17:58 Lab File ID: J000010.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	22.46	Baseline	phant	03/12/15 06:40
4-Nitrotoluene	24.08	Baseline	phant	03/12/15 06:40
3-Nitrotoluene	25.84	Baseline	phant	03/12/15 06:40
PETN	28.31	Baseline	phant	03/12/15 06:17

Lab Sample ID: IC 320-67883/8 Client Sample ID:

Date Analyzed: 03/11/15 18:42 Lab File ID: J000011.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	22.45	Baseline	phant	03/12/15 06:41
4-Nitrotoluene	24.09	Baseline	phant	03/12/15 06:41
3-Nitrotoluene	25.85	Baseline	phant	03/12/15 06:41
PETN	28.30	Baseline	phant	03/12/15 06:17

Lab Sample ID: IC 320-67883/9 Client Sample ID:

Date Analyzed: 03/11/15 19:25 Lab File ID: J000012.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	22.46	Baseline	phant	03/12/15 06:42
4-Nitrotoluene	24.09	Baseline	phant	03/12/15 06:42
3-Nitrotoluene	25.85	Baseline	phant	03/12/15 06:42
PETN	28.33	Baseline	phant	03/12/15 06:18

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC10 Analysis Batch Number: 67883

Lab Sample ID: IC 320-67883/10 Client Sample ID:

Date Analyzed: 03/11/15 20:09 Lab File ID: J000013.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.38	Baseline	phant	03/12/15 06:47
PETN	28.30	Baseline	phant	03/12/15 06:18

Lab Sample ID: ICV 320-67883/12 Client Sample ID:

Date Analyzed: 03/11/15 21:36 Lab File ID: J000015.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	28.31	Baseline	phant	03/12/15 06:43

Lab Sample ID: LODV 320-67883/13 Client Sample ID:

Date Analyzed: 03/11/15 22:20 Lab File ID: J000016.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	12.21	Baseline	phant	03/12/15 06:46
3,5-Dinitroaniline	12.92	Baseline	phant	03/12/15 06:46
Tetryl	13.47	Baseline	phant	03/12/15 06:46
Nitrobenzene	13.94	Baseline	phant	03/12/15 06:46
2,4,6-Trinitrotoluene	15.44	Baseline	phant	03/12/15 06:46
4-Amino-2,6-dinitrotoluene	16.11	Baseline	phant	03/12/15 06:46
3,4-Dinitrotoluene	16.55	Baseline	phant	03/12/15 06:46
2-Amino-4,6-dinitrotoluene	16.95	Baseline	phant	03/12/15 06:46
2,6-Dinitrotoluene	18.51	Baseline	phant	03/12/15 06:46
2,4-Dinitrotoluene	19.10	Baseline	phant	03/12/15 06:46
2-Nitrotoluene	22.47	Baseline	phant	03/12/15 06:46
4-Nitrotoluene	24.08	Baseline	phant	03/12/15 06:46
3-Nitrotoluene	25.88	Baseline	phant	03/12/15 06:46
PETN	28.37	Baseline	phant	03/12/15 06:46

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC9 Analysis Batch Number: 63675

Lab Sample ID: STD1 320-63675/4 IC Client Sample ID:

Date Analyzed: 01/23/15 14:34 Lab File ID: W000004.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	34.79	Baseline	phant	01/26/15 10:15
4-Amino-2,6-dinitrotoluene	35.23	Baseline	phant	01/26/15 10:15

Lab Sample ID: STD2 320-63675/5 IC Client Sample ID:

Date Analyzed: 01/23/15 15:41 Lab File ID: W000005.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene glycol dinitrate	22.76	Baseline	phant	01/26/15 10:27
2-Amino-4,6-dinitrotoluene	34.82	Baseline	phant	01/26/15 10:16
4-Amino-2,6-dinitrotoluene	35.23	Peak not integrated	phant	01/26/15 10:16
Nitroglycerin	43.29	Baseline	phant	01/26/15 10:16
PETN	51.54	Baseline	phant	01/26/15 10:16

Lab Sample ID: STD3 320-63675/6 IC Client Sample ID:

Date Analyzed: 01/23/15 16:48 Lab File ID: W000006.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	34.83	Incomplete Integration	phant	01/26/15 10:26
4-Amino-2,6-dinitrotoluene	35.26	Incomplete Integration	phant	01/26/15 10:26
PETN	51.56	Baseline	phant	01/26/15 10:26

Lab Sample ID: STD4 320-63675/7 IC Client Sample ID:

Date Analyzed: 01/23/15 17:54 Lab File ID: W000007.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	34.88	Baseline	phant	01/26/15 10:25
PETN	51.59	Baseline	phant	01/26/15 10:25

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC9 Analysis Batch Number: 63675

Lab Sample ID: STD5 320-63675/8 IC Client Sample ID:

Date Analyzed: 01/23/15 19:01 Lab File ID: W000008.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	51.57	Baseline	phant	01/26/15 10:25

Lab Sample ID: STD6 320-63675/9 IC Client Sample ID:

Date Analyzed: 01/23/15 20:08 Lab File ID: W000009.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	51.57	Baseline	phant	01/26/15 10:24

Lab Sample ID: STD7 320-63675/10 IC Client Sample ID:

Date Analyzed: 01/23/15 21:15 Lab File ID: W000010.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	51.55	Baseline	phant	01/26/15 10:04

Lab Sample ID: ICV 320-63675/12 Client Sample ID:

Date Analyzed: 01/23/15 23:28 Lab File ID: W000012.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	51.57	Baseline	phant	01/26/15 10:04

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC9 Analysis Batch Number: 63675

Lab Sample ID: LODV 320-63675/13 Client Sample ID:

Date Analyzed: 01/24/15 00:35 Lab File ID: W000013.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene	26.87	Baseline	phant	01/26/15 10:19
2-Amino-4,6-dinitrotoluene	34.78	Baseline	phant	01/26/15 10:19
4-Amino-2,6-dinitrotoluene	35.19	Peak not integrated	phant	01/26/15 10:19
PETN	51.53	Baseline	phant	01/26/15 10:04

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC9 Analysis Batch Number: 71996

Lab Sample ID: CCVL 320-71996/3 Client Sample ID:

Date Analyzed: 04/23/15 18:05 Lab File ID: W000003.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	30.17	Baseline	huangyun	04/24/15 17:16
2,4-Dinitrotoluene	31.56	Baseline	huangyun	04/24/15 17:16
2-Amino-4,6-dinitrotoluene	34.66	Baseline	huangyun	04/24/15 17:16
4-Amino-2,6-dinitrotoluene	35.11	Incomplete Integration	huangyun	04/24/15 17:16
PETN	51.37	Baseline	huangyun	04/24/15 17:16

Lab Sample ID: CCV 320-71996/12 CCVRT Client Sample ID:

Date Analyzed: 04/24/15 04:05 Lab File ID: W000012.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	51.23	Baseline	huangyun	04/24/15 09:56

Lab Sample ID: CCVL 320-71996/13 Client Sample ID:

Date Analyzed: 04/24/15 05:12 Lab File ID: W000013.D GC Column: Zorbax CN ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	34.39	Peak not integrated	huangyun	04/24/15 17:18
4-Amino-2,6-dinitrotoluene	34.84	Peak not integrated	huangyun	04/24/15 17:18
PETN	51.25	Baseline	huangyun	04/24/15 17:18

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EX10PPMSPK_00016	06/10/16	04/03/15	MEOH, Lot 0000085233	1000 mL	EXPCB1016_00006	2 mL	Aroclor-1016	10 ug/mL
					EXPCB1260_00007	2 mL	Aroclor-1260	10 ug/mL
.EXPCB1016_00006	12/20/23	AccuStandard, Inc., Lot 213121297			(Purchased Reagent)		Aroclor-1016	5000 ug/mL
.EXPCB1260_00007	02/07/23	AccuStandard, Lot B3020274-1A			(Purchased Reagent)		Aroclor-1260	5000 ug/mL
EX2/.2SURRW_00053	06/10/16	03/24/15	MEOH, Lot 0000085233	2000 mL	EXPESTSURR_00001	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.EXPESTSURR_00001	05/31/21	Restek, Lot A0108779			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EX2/.2SURRW_00054	06/10/16	04/18/15	MEOH, Lot 0000085233	2000 mL	EXPESTSURR_00001	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.EXPESTSURR_00001	05/31/21	Restek, Lot A0108779			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXBenzaldehyd_00019	05/28/15	03/23/15	MEOH, Lot 0000085233	200 mL	SMLIST1 S8_00002	4 mL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
.SMLIST1 S8_00002	05/28/15	Restek, Lot A0103145			(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
EXBNASPIKE_00038	07/30/15	03/25/15	MEOH, Lot 0000085233	200 mL	SMLIST1 S1_00004	4 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
					SMLIST1 S2_00008	4 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SMLIST1 S7_00001	4 mL	N-Nitrosodiphenylamine	40 ug/mL
.SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.SMLIST1 S2_00008	07/30/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
EXBNASURR W_00021	06/10/16	03/16/15	MEOH, Lot 85233	2000 mL	SMLIST1 SURR_00003	8 mL	2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	20 ug/mL
.SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
EXHERBTSPIKEW_00017	01/09/16	01/09/15	ACETONE, Lot 0000083802	250 mL	EXTCLPHERBSPK_00004	25 mL	2,4-D	2 ug/mL
							Silvex (2,4,5-TP)	0.5 ug/mL
.EXTCLPHERBSPK_00004	08/28/13	08/28/12	ACETONE, Lot K42E14	100 mL	EXHERBTCLPSPK_00008	1 mL	2,4-D	20 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..EXHERBTCLPSPK_00008	01/31/17		ULTRA SCIENTIFIC, Lot CJ-5410		(Purchased Reagent)		2,4-D	2000 ug/mL
							Silvex (2,4,5-TP)	500 ug/mL
exNPDES spike_00003	06/10/16	03/04/15	MEOH, Lot 82533	200 mL	exNPDES stock_00001	0.1 mL	4,4'-DDD	1 ug/mL
							4,4'-DDE	1 ug/mL
							4,4'-DDT	1 ug/mL
							Aldrin	1 ug/mL
							alpha-BHC	1 ug/mL
							alpha-Chlordane	1 ug/mL
							beta-BHC	1 ug/mL
							delta-BHC	1 ug/mL
							Dieldrin	1 ug/mL
							Endosulfan I	1 ug/mL
							Endosulfan II	1 ug/mL
							Endosulfan sulfate	1 ug/mL
							Endrin	1 ug/mL
							Endrin aldehyde	1 ug/mL
							Endrin ketone	1 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							gamma-Chlordane	1 ug/mL
							Heptachlor	1 ug/mL
							Heptachlor epoxide	1 ug/mL
							Methoxychlor	1 ug/mL
.exNPDES stock_00001	02/28/18		Restek, Lot A0101246		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
EXpH(0-14)_00006	03/23/16	Merck, Lot HC432654			(Purchased Reagent)		pH at time of analysis	1 No Unit
EXTCLPBNA W_00037	08/31/15	04/10/15	MEOH, Lot 0000085233	200 mL	SMLIST1 S1_00004	4 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
.SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
EXTCLPBUFF1_00469	04/15/15	04/15/15	DIWATER, Lot 041515	48 L	EXTCLP5MNAOH_00028	751.49 g	Sodium Hydroxide	0.313121 %
					EXTCLPACETIC_00015	273.6 mL	Acetic acid	0.57 %
.EXTCLP5MNAOH_00028	03/30/16	03/30/15	DIWATER, Lot 03302015	3 L	EXTCLPNAOH_00021	600 g	Sodium Hydroxide	200 mol/L
..EXTCLPNAOH_00021	03/07/17	Macron, Lot 0000095327			(Purchased Reagent)		Sodium Hydroxide	1 g/g
.EXTCLPACETIC_00015	02/25/16	Fisher, Lot 146458			(Purchased Reagent)		Acetic acid	1 g/g
EXTCLPFILTERS_00023	08/22/16	Whatman, Lot 9588225			(Purchased Reagent)		Prep Analyte	100 No Unit
EXTCLPHCLW_00044	02/24/16	02/24/15	DIWATER, Lot 02242015	1000 mL	MTTMHCL_00051	83 mL	Hydrogen Chloride	83 mol/L
.MTTMHCL_00051	11/07/16	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
EXTCLPHERBSUR_00020	04/30/15	09/10/14	MEOH, Lot 0000062345	250 mL	EXHERBSURR_00015	25 mL	2,4-Dichlorophenylacetic acid	2 ug/mL
.EXHERBSURR_00015	01/31/14	09/26/13	MEOH, Lot 0000038701	500 mL	EXHERBSOILSUR_00011	2 mL	2,4-Dichlorophenylacetic acid	20 ug/mL
..EXHERBSOILSUR_00011	01/31/14	Ultra scientific, Lot CJ-4665			(Purchased Reagent)		2,4-Dichlorophenylacetic acid	5000 ug/mL
EXTCLPPESTSPW_00018	04/30/16	04/07/15	MEOH, Lot 0000085233	200 mL	EXTCLPPEST_00008	1 mL	Endrin	0.5 ug/mL
							gamma-BHC (Lindane)	0.5 ug/mL
							Heptachlor	0.5 ug/mL
							Heptachlor epoxide	0.5 ug/mL
							Methoxychlor	1 ug/mL
.EXTCLPPEST_00008	04/30/16	Ultra Scientific, Lot CL-0970			(Purchased Reagent)		Endrin	100 ug/mL
							gamma-BHC (Lindane)	100 ug/mL
							Heptachlor	100 ug/mL
							Heptachlor epoxide	100 ug/mL
							Methoxychlor	200 ug/mL
EXZHEFILTERS_00010	03/20/17	Environmental Express, Lot 102807-5057			(Purchased Reagent)		Prep Analyte	100 Filter
ICPCRIW_00011	09/13/15	03/13/15	DIWATER, Lot DIWATER	1000 mL	MTICPCRI1_00003	1 mL	Arsenic	15 ug/L
							Barium	10 ug/L
							Cadmium	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chromium	5 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
					MTICPCRILL3_00003	1 mL	Silver	5 ug/L
.MTICPCRI1_00003	04/01/16	INORGANIC VENTURES, Lot J2-MEB567105			(Purchased Reagent)		Arsenic	15 ug/mL
							Barium	10 ug/mL
							Cadmium	5 ug/mL
							Chromium	5 ug/mL
							Lead	10 ug/mL
							Selenium	20 ug/mL
.MTICPCRILL3_00003	04/01/16	INORGANIC VENTURES, Lot J2-MEB567107			(Purchased Reagent)		Silver	5 ug/mL
K2S2O8_00021	07/27/16	03/26/15	DIWATER, Lot DIWATER	2.5 L	MTK2S208_00019	125 g	Potassium persulfate	0.05 g/g
.MTK2S208_00019	07/27/16	Macron, Lot 0000046094			(Purchased Reagent)		Potassium persulfate	1 g/g
MT1to1HCL_00049	03/02/17	03/13/15	DIWATER, Lot DIWATER	2500 mL	MTTMHCL_00060	1250 mL	Hydrogen Chloride	0.5 mL/mL
.MTTMHCL_00060	03/02/17	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
MT6500ICV_00025	09/03/15	03/03/15	DIWATER, Lot DIWATER	1000 mL	MTTRICV3_00006	6 mL	Barium	1500 ug/L
							Chromium	1500 ug/L
					MTTRICV5_00012	1.5 mL	Arsenic	375 ug/L
							Cadmium	375 ug/L
							Lead	375 ug/L
							Selenium	375 ug/L
					MTTRICVAG_00005	7.5 mL	Silver	750 ug/L
.MTTRICV3_00006	04/01/16	CPI, Lot 1071810			(Purchased Reagent)		Barium	250 mg/L
							Chromium	250 mg/L
.MTTRICV5_00012	04/01/16	CPI, Lot 1071811			(Purchased Reagent)		Arsenic	250 ug/mL
							Cadmium	250 ug/mL
							Lead	250 ug/mL
							Selenium	250 ug/mL
.MTTRICVAG_00005	10/01/15	CPI, Lot 1065516			(Purchased Reagent)		Silver	100 mg/L
MTAGSPIKEW_00047	09/17/15	03/17/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
					MTTMHNO3_00052	50 mL	Nitric acid	50000000 ug/L
.MTAG_00005	12/27/15	HIGH PURITY STANDARDS, Lot 1401302			(Purchased Reagent)		Silver	1000 ug/mL
.MTTMHNO3_00052	03/02/17	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
MTH2S04_00021	10/21/16	Macron, Lot 0000080085			(Purchased Reagent)		Sulfuric acid	100 %
MTHGCALW_00879	04/13/15	04/13/15	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00016	1 mL	Hg	100 ug/L
					MTTMHNO3_00053	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00016	05/09/17	INORGANIC VENTURES, Lot H2-HG02126			(Purchased Reagent)		Hg	10 ug/mL
.MTTMHNO3_00053	03/24/17	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00883	04/16/15	04/16/15	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00016	1 mL	Hg	100 ug/L
					MTTMHNO3_00054	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00016	05/09/17	INORGANIC VENTURES, Lot H2-HG02126			(Purchased Reagent)		Hg	10 ug/mL
.MTTMHNO3_00054	04/07/17	Macron/Avantor, Lot 0000104740			(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00016	10/07/15	HPS, Lot 1509117			(Purchased Reagent)		Hg	1 ug/mL
MTICP1_00039	09/17/15	03/17/15	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00008	50 mL	Aluminum	100000 ug/L
							Arsenic	100000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							B	50000 ug/L
							Barium	100000 ug/L
							Beryllium	2500 ug/L
							Cadmium	2500 ug/L
							Chromium	10000 ug/L
							Cobalt	25000 ug/L
							Copper	12500 ug/L
							Iron	50000 ug/L
							Lead	25000 ug/L
							Manganese	25000 ug/L
							Nickel	25000 ug/L
							Selenium	100000 ug/L
							Thallium	100000 ug/L
							Vanadium	25000 ug/L
							Zinc	25000 ug/L
					MTICPSPIKEB_00008	50 mL	Antimony	25000 ug/L
							Mo	50000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00005	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00052	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00008	12/15/15	High Purity Standards, Lot 1434517			(Purchased Reagent)		Aluminum	2000 ug/mL
							Arsenic	2000 ug/mL
							B	1000 ug/mL
							Barium	2000 ug/mL
							Beryllium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Cobalt	500 ug/mL
							Copper	250 ug/mL
							Iron	1000 ug/mL
							Lead	500 ug/mL
							Manganese	500 ug/mL
							Nickel	500 ug/mL
							Selenium	2000 ug/mL
							Thallium	2000 ug/mL
							Vanadium	500 ug/mL
							Zinc	500 ug/mL
.MTICPSPIKEB_00008	12/15/15	High Purity Standards, Lot 1434518			(Purchased Reagent)		Antimony	500 ug/mL
							Mo	1000 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00005	12/15/15	High Purity Standards, Lot 1434513			(Purchased Reagent)		Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sr	1000 ug/mL
.MTTMHNO3_00052	03/02/17	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
MTICP2A_00048	06/29/15	02/18/14	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00050	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00010	250 mL	Calcium	2500 mg/L
							Magnesium	2500 mg/L
							Potassium	2500 mg/L
							Sodium	2500 mg/L
.MTTMHNO3_00050	01/16/17	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
.MTTRCAL2_00010	11/19/15	HIGH PURITY STANDARDS, Lot 1424003			(Purchased Reagent)		Calcium	10000 ug/mL
							Magnesium	10000 ug/mL
							Potassium	10000 ug/mL
							Sodium	10000 ug/mL
MTICPCCV_00045	10/02/15	04/02/15	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00008	200 mL	Arsenic	500 ug/L
							Barium	2000 ug/L
							Cadmium	500 ug/L
							Chromium	2000 ug/L
							Lead	500 ug/L
							Selenium	500 ug/L
					MTICPCCV2_00008	200 mL	Silver	1000 ug/L
.MTICPCCV1_00008	04/01/16	INORGANIC VENTURES, Lot J2-MEB567093			(Purchased Reagent)		Arsenic	5000 ug/L
							Barium	20000 ug/L
							Cadmium	5000 ug/L
							Chromium	20000 ug/L
							Lead	5000 ug/L
							Selenium	5000 ug/L
.MTICPCCV2_00008	04/01/16	INORGANIC VENTURES, Lot J2-MEB567104			(Purchased Reagent)		Silver	10000 ug/L
MTICPICSABW_00007	09/02/15	03/02/15	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00003	100 mL	Aluminum	500000 ug/L
							Arsenic	1000 ug/L
							Barium	500 ug/L
							Beryllium	500 ug/L
							Cadmium	1000 ug/L
							Calcium	500000 ug/L
							Chromium	500 ug/L
							Cobalt	500 ug/L
							Copper	500 ug/L
							Iron	200000 ug/L
							Lead	1000 ug/L
							Magnesium	500000 ug/L
							Manganese	500 ug/L
							Nickel	1000 ug/L
							Potassium	10000 ug/L
							Selenium	1000 ug/L
							Sodium	10000 ug/L
							Thallium	1000 ug/L
							Vanadium	500 ug/L
							Zinc	1000 ug/L
					MTICPICSAB2_00003	100 mL	Antimony	1000 ug/L

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Mo	1000 ug/L
							Silver	1000 ug/L
							Sn	500 ug/L
.MTICPICSAB1_00003	10/01/15	INORGANIC VENTURES, Lot H2-MEB546050			(Purchased Reagent)		Aluminum	5000000 ug/L
							Arsenic	10000 ug/L
							Barium	5000 ug/L
							Beryllium	5000 ug/L
							Cadmium	10000 ug/L
							Calcium	5000000 ug/L
							Chromium	5000 ug/L
							Cobalt	5000 ug/L
							Copper	5000 ug/L
							Iron	2000000 ug/L
							Lead	10000 ug/L
							Magnesium	5000000 ug/L
							Manganese	5000 ug/L
							Nickel	10000 ug/L
							Potassium	100000 ug/L
							Selenium	10000 ug/L
							Sodium	100000 ug/L
							Thallium	10000 ug/L
							Vanadium	5000 ug/L
							Zinc	10000 ug/L
.MTICPICSAB2_00003	10/01/15	INORGANIC VENTURES, Lot H2-MEB546051			(Purchased Reagent)		Antimony	10000 ug/L
							Mo	10000 ug/L
							Silver	10000 ug/L
							Sn	5000 ug/L
MTICPMS2_00020	02/01/16	Inorganic Ventures, Lot H2-MEB559070			(Purchased Reagent)		Aluminum	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
MTICPMSA_00021	12/15/15	High Purity Standards, Lot 1434610			(Purchased Reagent)		Arsenic	10 ug/mL
							B	10 ug/mL
							Barium	10 ug/mL
							Beryllium	10 ug/mL
							Cadmium	10 ug/mL
							Chromium	10 ug/mL
							Cobalt	10 ug/mL
							Copper	10 ug/mL
							Lead	10 ug/mL
							Manganese	10 ug/mL
							Nickel	10 ug/mL
							Selenium	10 ug/mL
							Sr	10 ug/mL
							Thallium	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vanadium	10 ug/mL
							Zinc	10 ug/mL
MTICPMSA_00022	02/01/16	Inorganic Ventures, Lot H2-MEB552051			(Purchased Reagent)		Arsenic	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Manganese	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Sr	100 ug/mL
							Thallium	25 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL
MTICPMSB_00021	12/15/15	High Purity Standards, Lot 1434611			(Purchased Reagent)		Antimony	10 ug/mL
							Mo	10 ug/mL
							Silver	10 ug/mL
							Sn	10 ug/mL
							Ti	10 ug/mL
							W	10 ug/mL
							Zr	10 ug/mL
MTICPMSB_00022	02/01/16	Inorganic Ventures, Lot H2-MEB559071			(Purchased Reagent)		Antimony	10 ug/mL
							B	10 ug/mL
							Mo	10 ug/mL
							Silver	10 ug/mL
							Sn	100 ug/mL
							Ti	10 ug/mL
							W	10 ug/mL
MTKMN04W_00081	04/07/17	04/07/15	DIWATER, Lot DIWATER	2.5 L	MTKMN04_00022	125 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00022	02/18/20	Fisher, Lot 121666			(Purchased Reagent)		Potassium Permanganate	1 g/g
MTMSCAL2CCVW_00110	10/01/15	03/10/15	DIWATER, Lot DIWATER	500 mL	MTMSCAL3_00008	5 mL	Aluminum	250 ug/L
							Arsenic	50 ug/L
							Barium	50 ug/L
							Beryllium	50 ug/L
							Cadmium	50 ug/L
							Calcium	25000 ug/L
							Chromium	50 ug/L
							Cobalt	50 ug/L
							Copper	50 ug/L
							Iron	12500 ug/L
							Lead	50 ug/L
							Magnesium	25000 ug/L
							Manganese	250 ug/L

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nickel	50 ug/L
							Potassium	25000 ug/L
							Selenium	50 ug/L
							Silver	50 ug/L
							Sodium	25000 ug/L
							Thallium	50 ug/L
							Vanadium	50 ug/L
							Zinc	50 ug/L
					MTMSCAL4_00009	5 mL	Antimony	50 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTMSCAL2CCVW_00116	10/01/15	04/09/15	DIWATER, Lot DIWATER	500 mL	MTMSCAL3_00008	5 mL	Aluminum	250 ug/L
							Arsenic	50 ug/L
							Barium	50 ug/L
							Beryllium	50 ug/L
							Cadmium	50 ug/L
							Calcium	25000 ug/L
							Chromium	50 ug/L
							Cobalt	50 ug/L
							Copper	50 ug/L
							Iron	12500 ug/L
							Lead	50 ug/L
							Magnesium	25000 ug/L
							Manganese	250 ug/L
							Nickel	50 ug/L
							Potassium	25000 ug/L
							Selenium	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Silver	50 ug/L
							Sodium	25000 ug/L
							Thallium	50 ug/L
							Vanadium	50 ug/L
							Zinc	50 ug/L
					MTMSCAL4_00009	5 mL	Antimony	50 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTMSCAL3W_00039	10/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSCAL3_00008	5 mL	Aluminum	500 ug/L
							Arsenic	100 ug/L
							Barium	100 ug/L
							Beryllium	100 ug/L
							Cadmium	100 ug/L
							Calcium	50000 ug/L
							Chromium	100 ug/L
							Cobalt	100 ug/L
							Copper	100 ug/L
							Iron	25000 ug/L
							Lead	100 ug/L
							Magnesium	50000 ug/L
							Manganese	500 ug/L
							Nickel	100 ug/L
							Potassium	50000 ug/L
							Selenium	100 ug/L
							Silver	100 ug/L
							Sodium	50000 ug/L
							Thallium	100 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vanadium	100 ug/L
							Zinc	100 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
MTMSCAL4W_00035	10/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSCAL4_00009	5 mL	Antimony	100 ug/L
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTMSCRI6020AW_00019	05/18/15	03/16/15	DIWATER, Lot DIWATER	500 mL	MS6020ACRIA_00002	0.5 mL	Aluminum	50 ug/L
							Arsenic	5 ug/L
							Barium	5 ug/L
							Beryllium	1 ug/L
							Cadmium	1 ug/L
							Calcium	1000 ug/L
							Chromium	2 ug/L
							Cobalt	1 ug/L
							Copper	2 ug/L
							Iron	100 ug/L
							Lead	1 ug/L
							Magnesium	1000 ug/L
							Manganese	5 ug/L
							Nickel	2 ug/L
							Potassium	1000 ug/L
							Selenium	5 ug/L
							Sodium	1000 ug/L
							Thallium	2 ug/L
							Vanadium	5 ug/L
							Zinc	20 ug/L
					MS6020ACRIB_00002	0.5 mL	Antimony	2 ug/L
					MTAGSPIKEW_00045	0.2 mL	Silver	1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MS6020ACRIA_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537060			(Purchased Reagent)		Aluminum	50 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	1 ug/mL
							Cadmium	1 ug/mL
							Calcium	1000 ug/mL
							Chromium	2 ug/mL
							Cobalt	1 ug/mL
							Copper	2 ug/mL
							Iron	100 ug/mL
							Lead	1 ug/mL
							Magnesium	1000 ug/mL
							Manganese	5 ug/mL
							Nickel	2 ug/mL
							Potassium	1000 ug/mL
							Selenium	5 ug/mL
							Sodium	1000 ug/mL
							Thallium	2 ug/mL
							Vanadium	5 ug/mL
							Zinc	20 ug/mL
.MS6020ACRIB_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537061			(Purchased Reagent)		Antimony	2 ug/mL
.MTAGSPIKEW_00045	05/18/15	11/18/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
..MTAG_00005	12/27/15	HIGH PURITY STANDARDS, Lot 1401302			(Purchased Reagent)		Silver	1000 ug/mL
MTMSCRI6020AW_00021	05/18/15	04/20/15	DIWATER, Lot DIWATER	500 mL	MS6020ACRIA_00002	0.5 mL	Aluminum	50 ug/L
							Arsenic	5 ug/L
							Barium	5 ug/L
							Beryllium	1 ug/L
							Cadmium	1 ug/L
							Calcium	1000 ug/L
							Chromium	2 ug/L
							Cobalt	1 ug/L
							Copper	2 ug/L
							Iron	100 ug/L
							Lead	1 ug/L
							Magnesium	1000 ug/L
							Manganese	5 ug/L
							Nickel	2 ug/L
							Potassium	1000 ug/L
							Selenium	5 ug/L
							Sodium	1000 ug/L
							Thallium	2 ug/L
							Vanadium	5 ug/L
							Zinc	20 ug/L
					MS6020ACRIB_00002	0.5 mL	Antimony	2 ug/L
					MTAGSPIKEW_00045	0.2 mL	Silver	1 ug/L
.MS6020ACRIA_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537060			(Purchased Reagent)		Aluminum	50 ug/mL
							Arsenic	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Barium	5 ug/mL
							Beryllium	1 ug/mL
							Cadmium	1 ug/mL
							Calcium	1000 ug/mL
							Chromium	2 ug/mL
							Cobalt	1 ug/mL
							Copper	2 ug/mL
							Iron	100 ug/mL
							Lead	1 ug/mL
							Magnesium	1000 ug/mL
							Manganese	5 ug/mL
							Nickel	2 ug/mL
							Potassium	1000 ug/mL
							Selenium	5 ug/mL
							Sodium	1000 ug/mL
							Thallium	2 ug/mL
							Vanadium	5 ug/mL
							Zinc	20 ug/mL
.MS6020ACRIB_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537061			(Purchased Reagent)		Antimony	2 ug/mL
.MTAGSPIKEW_00045	05/18/15	11/18/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
..MTAG_00005	12/27/15	HIGH PURITY STANDARDS, Lot 1401302			(Purchased Reagent)		Silver	1000 ug/mL
MTMSICSABW_00043	05/01/15	02/20/15	DIWATER, Lot DIWATER	200 mL	MTMSICSA_00009	10 mL	Aluminum	50000 ug/L
							Calcium	50000 ug/L
							Iron	50000 ug/L
							Magnesium	50000 ug/L
							Mo	1100 ug/L
							Potassium	50000 ug/L
							Sodium	50000 ug/L
							Ti	1100 ug/L
					MTMSICSABSOLA_00006	1 mL	Arsenic	100 ug/L
							B	100 ug/L
							Barium	100 ug/L
							Beryllium	100 ug/L
							Cadmium	100 ug/L
							Chromium	100 ug/L
							Cobalt	100 ug/L
							Copper	100 ug/L
							Lead	100 ug/L
							Manganese	100 ug/L
							Nickel	100 ug/L
							Selenium	100 ug/L
							Sr	100 ug/L
							Thallium	100 ug/L
							Vanadium	100 ug/L
							Zinc	100 ug/L
					MTMSICSABSOLB_00006	1 mL	Antimony	100 ug/L
							Mo	1100 ug/L

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Silver	100 ug/L
							Sn	100 ug/L
							Ti	1100 ug/L
							W	100 ug/L
.MTMSICSA_00009	05/01/15	INORGANIC VENTURES, Lot G2-MEB476152MCA			(Purchased Reagent)		Aluminum	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Mo	20 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
							Ti	20 ug/mL
.MTMSICSABSOLA_00006	02/10/16	HIGH PURITY STANDARDS, Lot 1503726			(Purchased Reagent)		Arsenic	20 ug/mL
							B	20 ug/mL
							Barium	20 ug/mL
							Beryllium	20 ug/mL
							Cadmium	20 ug/mL
							Chromium	20 ug/mL
							Cobalt	20 ug/mL
							Copper	20 ug/mL
							Lead	20 ug/mL
							Manganese	20 ug/mL
							Nickel	20 ug/mL
							Selenium	20 ug/mL
							Sr	20 ug/mL
							Thallium	20 ug/mL
							Vanadium	20 ug/mL
							Zinc	20 ug/mL
.MTMSICSABSOLB_00006	02/10/16	HIGH PURITY STANDARDS, Lot 1504002			(Purchased Reagent)		Antimony	20 ug/mL
							Mo	20 ug/mL
							Silver	20 ug/mL
							Sn	20 ug/mL
							Ti	20 ug/mL
							W	20 ug/mL
MTMSICSAW_00044	05/01/15	03/16/15	DIWATER, Lot DIWATER	200 mL	MTMSICSA_00009	10 mL	Aluminum	50000 ug/L
							Calcium	50000 ug/L
							Iron	50000 ug/L
							Magnesium	50000 ug/L
							Mo	1000 ug/L
							Potassium	50000 ug/L
							Sodium	50000 ug/L
							Ti	1000 ug/L
.MTMSICSA_00009	05/01/15	INORGANIC VENTURES, Lot G2-MEB476152MCA			(Purchased Reagent)		Aluminum	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Mo	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
							Ti	20 ug/mL
MTMSICVW_00043	08/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSICVA_00005	2.5 mL	Aluminum	200 ug/L
							Antimony	40 ug/L
							Arsenic	40 ug/L
							Barium	40 ug/L
							Beryllium	40 ug/L
							Cadmium	40 ug/L
							Chromium	40 ug/L
							Cobalt	40 ug/L
							Copper	40 ug/L
							Lead	40 ug/L
							Manganese	200 ug/L
							Nickel	40 ug/L
							Selenium	40 ug/L
							Silver	40 ug/L
							Thallium	40 ug/L
							Vanadium	40 ug/L
							Zinc	40 ug/L
					MTMSICVB_00005	2.5 mL	Calcium	20000 ug/L
							Iron	10000 ug/L
							Magnesium	20000 ug/L
							Potassium	20000 ug/L
							Sodium	20000 ug/L
.MTMSICVA_00005	08/01/15		CPI, Lot 1063211		(Purchased Reagent)		Aluminum	20 mg/L
							Antimony	4 mg/L
							Arsenic	4 mg/L
							Barium	4 mg/L
							Beryllium	4 mg/L
							Cadmium	4 mg/L
							Chromium	4 mg/L
							Cobalt	4 mg/L
							Copper	4 mg/L
							Lead	4 mg/L
							Manganese	20 mg/L
							Nickel	4 mg/L
							Selenium	4 mg/L
							Silver	4 mg/L
							Thallium	4 mg/L
							Vanadium	4 mg/L
							Zinc	4 mg/L
.MTMSICVB_00005	08/01/15		CPI, Lot 1063211		(Purchased Reagent)		Calcium	2000 mg/L
							Iron	1000 mg/L
							Magnesium	2000 mg/L
							Potassium	2000 mg/L
							Sodium	2000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTMSSCAL1_00014	10/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSCAL3_00008	0.5 mL	Aluminum	50 ug/L
							Arsenic	10 ug/L
							Barium	10 ug/L
							Beryllium	10 ug/L
							Cadmium	10 ug/L
							Calcium	5000 ug/L
							Chromium	10 ug/L
							Cobalt	10 ug/L
							Copper	10 ug/L
							Iron	2500 ug/L
							Lead	10 ug/L
							Magnesium	5000 ug/L
							Manganese	50 ug/L
							Nickel	10 ug/L
							Potassium	5000 ug/L
							Selenium	10 ug/L
							Silver	10 ug/L
							Sodium	5000 ug/L
							Thallium	10 ug/L
							Vanadium	10 ug/L
							Zinc	10 ug/L
					MTMSCAL4_00009	0.5 mL	Antimony	10 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTNONRCRA+ODD_00002	09/17/15	High-Purity Standards, Lot 1425326			(Purchased Reagent)		Aluminum	100 ug/mL
							Antimony	25 ug/mL
							B	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Beryllium	2.5 ug/mL
							Cobalt	25 ug/mL
							Copper	12.5 ug/mL
							Iron	50 ug/mL
							Li	50 ug/mL
							Manganese	25 ug/mL
							Mo	50 ug/mL
							Nickel	25 ug/mL
							Si	50 ug/mL
							Sn	100 ug/mL
							Sr	50 ug/mL
							Thallium	100 ug/mL
							Ti	50 ug/mL
							Vanadium	25 ug/mL
							Zinc	25 ug/mL
MTRCRA_00009	12/15/15	High Purity Standards, Lot 1434520			(Purchased Reagent)		Arsenic	500 mg/L
							Barium	5000 mg/L
							Cadmium	100 mg/L
							Chromium	500 mg/L
							Lead	500 mg/L
							Selenium	100 mg/L
							Silver	100 mg/L
MTTMHCL_00062	04/02/17	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
MTTMHNO3_00053	03/24/17	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
MTTMHNO3_00054	04/07/17	Macron/Avantor, Lot 0000104740			(Purchased Reagent)		Nitric acid	100 %
MTTRICSAW_00026	06/01/15	03/25/15	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00012	100 mL	Aluminum	500000 ug/L
							Calcium	500000 ug/L
							Iron	200000 ug/L
							Magnesium	500000 ug/L
.MTTRICSA_00012	06/01/15	INORGANIC VENTURES, Lot G2-MEB491156			(Purchased Reagent)		Aluminum	5000 ug/mL
							Calcium	5000 ug/mL
							Iron	2000 ug/mL
							Magnesium	5000 ug/mL
MTTRQSMASPK1_00004	12/01/15	INORGANIC VENTURES, Lot H2-MEB551116			(Purchased Reagent)		Arsenic	30 mg/L
							Barium	5 mg/L
							Cadmium	35 mg/L
							Chromium	20 mg/L
							Lead	15 mg/L
							Selenium	40 mg/L
MTTRQSMASPK2_00004	12/01/15	INORGANIC VENTURES, Lot H2-MEB551117			(Purchased Reagent)		Silver	10 mg/L
SG1248@.05ppm_00015	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	0.5 mL	PCB-1248 Peak 1	0.05 ug/mL
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.1PPM_00012	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	1 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.2ppm_00012	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	2 mL	PCB-1248 Peak 1	0.2 ug/mL
							PCB-1248 Peak 2	0.2 ug/mL
							PCB-1248 Peak 3	0.2 ug/mL
							PCB-1248 Peak 4	0.2 ug/mL
							PCB-1248 Peak 5	0.2 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.5ppm_00015	06/01/15	12/01/14	HEXANE, Lot 00000078259	100 mL	SG1248@10ppm_00006	5 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@1.0ppm_00010	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	10 mL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@2.0ppm_00010	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	20 mL	PCB-1248 Peak 1	2 ug/mL
							PCB-1248 Peak 2	2 ug/mL
							PCB-1248 Peak 3	2 ug/mL
							PCB-1248 Peak 4	2 ug/mL
							PCB-1248 Peak 5	2 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1660@.05PPM_00012	07/01/15	01/08/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260_00012	0.5 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 5	0.05 ug/mL
					SGPCGSURRSTK_00005	0.125 mL	DCB Decachlorobiphenyl	0.0025 ug/mL
							Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00012	08/25/15	08/25/14	HEXANE, Lot 0000075731	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@.05PPM_00012	07/01/15	01/08/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260_00012	0.5 mL	Aroclor-1016	0.05 ug/mL
							Aroclor-1260	0.05 ug/mL
.SG1016/1260_00012	08/25/15	08/25/14	HEXANE, Lot 0000075731	100 mL	SG1016/1260MX_00006	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
SG1660@0.2ppm_00011	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	2 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
					SGPCGSURRSTK_00005	0.5 mL	DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00042	07/31/15	02/04/15	HEXANE, Lot 0000086560	200 mL	SG1016/1260_00013	10 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00005	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00044	07/31/15	03/17/15	HEXANE, Lot 0000086559	200 mL	SG1016/1260_00013	10 mL	Aroclor-1016	0.5 ug/mL
							Aroclor-1260	0.5 ug/mL
							PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00005	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@1.0PPM_00011	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					SGPCGSURRSTK_00005	2.5 mL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@2.0PPM_00012	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	20 mL	PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
					SGPCGSURRSTK_00005	5 mL	DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660ICV@1.0_00004	07/05/15	01/05/15	HEXANE, Lot 0000086560	10 mL	SG1660ICV@10_00004	1 mL	Aroclor-1016	1 ug/mL
							Aroclor-1260	1 ug/mL
.SG1660ICV@10_00004	07/05/15	01/05/15	HEXANE, Lot 0000086560	10 mL	SG1660ICV@100_00002	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
..SG1660ICV@100_00002	08/22/15	08/22/14	HEXANE, Lot 0000075731	10 mL	SG 1660 ICV_00010	1 mL	Aroclor-1016	100 ug/mL
							Aroclor-1260	100 ug/mL
...SG 1660 ICV_00010	06/30/19		restek, Lot a094336		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
SG1660STD@0.1_00012	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	1 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					SGPCGSURRSTK_00005	0.25 mL	DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19	Restek, Lot a092844			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19	restek, Lot a092533			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG2154@0.05PP_00008	05/22/15	12/22/14	HEXANE, Lot 000078259	100 mL	SG2154@10ppm_00008	0.5 mL	PCB-1221 Peak 1	0.05 ug/mL
							PCB-1221 Peak 2	0.05 ug/mL
							PCB-1221 Peak 3	0.05 ug/mL
							PCB-1254 Peak 1	0.05 ug/mL
							PCB-1254 Peak 2	0.05 ug/mL
							PCB-1254 Peak 3	0.05 ug/mL
							PCB-1254 Peak 4	0.05 ug/mL
							PCB-1254 Peak 5	0.05 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18	RESTEK, Lot a090667			(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.2PPM_00009	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	2 mL	PCB-1221 Peak 1	0.2 ug/mL
							PCB-1221 Peak 2	0.2 ug/mL
							PCB-1221 Peak 3	0.2 ug/mL
							PCB-1254 Peak 1	0.2 ug/mL
							PCB-1254 Peak 2	0.2 ug/mL
							PCB-1254 Peak 3	0.2 ug/mL
							PCB-1254 Peak 4	0.2 ug/mL
							PCB-1254 Peak 5	0.2 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.5PPM_00016	05/22/15	12/22/14	HEXANE, Lot 00000078259	100 mL	SG2154@10ppm_00008	5 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@1.0PPM_00010	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	10 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@2.0PPM_00009	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	20 mL	PCB-1221 Peak 1	2 ug/mL
							PCB-1221 Peak 2	2 ug/mL
							PCB-1221 Peak 3	2 ug/mL
							PCB-1254 Peak 1	2 ug/mL
							PCB-1254 Peak 2	2 ug/mL
							PCB-1254 Peak 3	2 ug/mL
							PCB-1254 Peak 4	2 ug/mL
							PCB-1254 Peak 5	2 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.1PPM_00010	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	1 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG3262@.05PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	0.5 mL	PCB-1232 Peak 1	50 ug/L
							PCB-1232 Peak 2	50 ug/L
							PCB-1232 Peak 3	50 ug/L
							PCB-1232 Peak 4	50 ug/L
							PCB-1232 Peak 5	50 ug/L
							PCB-1262 Peak 1	50 ug/L
							PCB-1262 Peak 2	50 ug/L
							PCB-1262 Peak 3	50 ug/L
							PCB-1262 Peak 4	50 ug/L
							PCB-1262 Peak 5	50 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@.2PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	2 mL	PCB-1232 Peak 1	200 ug/L
							PCB-1232 Peak 2	200 ug/L
							PCB-1232 Peak 3	200 ug/L
							PCB-1232 Peak 4	200 ug/L
							PCB-1232 Peak 5	200 ug/L
							PCB-1262 Peak 1	200 ug/L
							PCB-1262 Peak 2	200 ug/L
							PCB-1262 Peak 3	200 ug/L
							PCB-1262 Peak 4	200 ug/L
							PCB-1262 Peak 5	200 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@0.1PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	1 mL	PCB-1232 Peak 1	100 ug/L
							PCB-1232 Peak 2	100 ug/L
							PCB-1232 Peak 3	100 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 4	100 ug/L
							PCB-1232 Peak 5	100 ug/L
							PCB-1262 Peak 1	100 ug/L
							PCB-1262 Peak 2	100 ug/L
							PCB-1262 Peak 3	100 ug/L
							PCB-1262 Peak 4	100 ug/L
							PCB-1262 Peak 5	100 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@0.5PPM_00004	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	5 mL	PCB-1232 Peak 1	500 ug/L
							PCB-1232 Peak 2	500 ug/L
							PCB-1232 Peak 3	500 ug/L
							PCB-1232 Peak 4	500 ug/L
							PCB-1232 Peak 5	500 ug/L
							PCB-1262 Peak 1	500 ug/L
							PCB-1262 Peak 2	500 ug/L
							PCB-1262 Peak 3	500 ug/L
							PCB-1262 Peak 4	500 ug/L
							PCB-1262 Peak 5	500 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@1.0PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	10 mL	PCB-1232 Peak 1	1000 ug/L
							PCB-1232 Peak 2	1000 ug/L
							PCB-1232 Peak 3	1000 ug/L
							PCB-1232 Peak 4	1000 ug/L
							PCB-1232 Peak 5	1000 ug/L
							PCB-1262 Peak 1	1000 ug/L
							PCB-1262 Peak 2	1000 ug/L
							PCB-1262 Peak 3	1000 ug/L
							PCB-1262 Peak 4	1000 ug/L
							PCB-1262 Peak 5	1000 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@2.0ppm_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	20 mL	PCB-1232 Peak 1	2000 ug/L
							PCB-1232 Peak 2	2000 ug/L
							PCB-1232 Peak 3	2000 ug/L
							PCB-1232 Peak 4	2000 ug/L
							PCB-1232 Peak 5	2000 ug/L
							PCB-1262 Peak 1	2000 ug/L
							PCB-1262 Peak 2	2000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 3	2000 ug/L
							PCB-1262 Peak 4	2000 ug/L
							PCB-1262 Peak 5	2000 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG42/68@1.0PP_00003	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	10 mL	PCB-1242 Peak 1	1000 ug/L
							PCB-1242 Peak 2	1000 ug/L
							PCB-1242 Peak 3	1000 ug/L
							PCB-1242 Peak 4	1000 ug/L
							PCB-1242 Peak 5	1000 ug/L
							PCB-1268 Peak 1	1000 ug/L
							PCB-1268 Peak 2	1000 ug/L
							PCB-1268 Peak 3	1000 ug/L
							PCB-1268 Peak 4	1000 ug/L
							PCB-1268 Peak 5	1000 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@.05PPM_00003	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	0.5 mL	PCB-1242 Peak 1	50 ug/L
							PCB-1242 Peak 2	50 ug/L
							PCB-1242 Peak 3	50 ug/L
							PCB-1242 Peak 4	50 ug/L
							PCB-1242 Peak 5	50 ug/L
							PCB-1268 Peak 1	50 ug/L
							PCB-1268 Peak 2	50 ug/L
							PCB-1268 Peak 3	50 ug/L
							PCB-1268 Peak 4	50 ug/L
							PCB-1268 Peak 5	50 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@.1PPM_00003	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	1 mL	PCB-1242 Peak 1	100 ug/L
							PCB-1242 Peak 2	100 ug/L
							PCB-1242 Peak 3	100 ug/L
							PCB-1242 Peak 4	100 ug/L
							PCB-1242 Peak 5	100 ug/L
							PCB-1268 Peak 1	100 ug/L
							PCB-1268 Peak 2	100 ug/L
							PCB-1268 Peak 3	100 ug/L
							PCB-1268 Peak 4	100 ug/L
							PCB-1268 Peak 5	100 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@.2PPM_00002	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	2 mL	PCB-1242 Peak 1	200 ug/L
							PCB-1242 Peak 2	200 ug/L
							PCB-1242 Peak 3	200 ug/L
							PCB-1242 Peak 4	200 ug/L
							PCB-1242 Peak 5	200 ug/L
							PCB-1268 Peak 1	200 ug/L
							PCB-1268 Peak 2	200 ug/L
							PCB-1268 Peak 3	200 ug/L
							PCB-1268 Peak 4	200 ug/L
							PCB-1268 Peak 5	200 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@0.5PPM_00003	06/11/15	12/11/14	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	5 mL	PCB-1242 Peak 1	500 ug/L
							PCB-1242 Peak 2	500 ug/L
							PCB-1242 Peak 3	500 ug/L
							PCB-1242 Peak 4	500 ug/L
							PCB-1242 Peak 5	500 ug/L
							PCB-1268 Peak 1	500 ug/L
							PCB-1268 Peak 2	500 ug/L
							PCB-1268 Peak 3	500 ug/L
							PCB-1268 Peak 4	500 ug/L
							PCB-1268 Peak 5	500 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@2.0PPM_00002	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	20 mL	PCB-1242 Peak 1	2000 ug/L
							PCB-1242 Peak 2	2000 ug/L
							PCB-1242 Peak 3	2000 ug/L
							PCB-1242 Peak 4	2000 ug/L
							PCB-1242 Peak 5	2000 ug/L
							PCB-1268 Peak 1	2000 ug/L
							PCB-1268 Peak 2	2000 ug/L
							PCB-1268 Peak 3	2000 ug/L
							PCB-1268 Peak 4	2000 ug/L
							PCB-1268 Peak 5	2000 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SGHERBICV_00027	06/06/15	12/10/14	hexane, Lot 0000075731	100 mL	SGHERBICVSTK_00002	1 mL	2,4-D	0.08 ug/mL
							2,4-Dichlorophenylacetic acid	0.08 ug/mL
							Silvex (2,4,5-TP)	0.02 ug/mL
.SGHERBICVSTK_00002	05/31/15		RESTEK, Lot A095508		(Purchased Reagent)		2,4-D	8 ug/mL
							2,4-Dichlorophenylacetic acid	8 ug/mL
							Silvex (2,4,5-TP)	2 ug/mL
SGHERBL1_00014	06/06/15	12/10/14	HEXANE, Lot 00000075731	100 mL	SGHERBST_00014	100 uL	2,4,5-T	0.005 ug/mL
							2,4-D	0.02 ug/mL
							2,4-DB	0.02 ug/mL
							2,4-Dichlorophenylacetic acid	0.02 ug/mL
							Dalapon	0.01 ug/mL
							Dicamba	0.01 ug/mL
							Dichlorprop	0.02 ug/mL
							Dinoseb	0.003 ug/mL
							MCPA	2 ug/mL
							MCPP	2 ug/mL
							Silvex (2,4,5-TP)	0.005 ug/mL
.SGHERBST_00014	06/06/15	12/10/14	HEXANE, Lot 0000075731	10 mL	SGHERB_00020	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00020	06/30/15		Ultra Scientific, Lot CH-1737		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL2_00011	06/06/15	12/10/14	HEXANE, Lot 00000075731	100 mL	SGHERBST_00014	200 uL	2,4,5-T	0.01 ug/mL
							2,4-D	0.04 ug/mL
							2,4-DB	0.04 ug/mL
							2,4-Dichlorophenylacetic acid	0.04 ug/mL
							Dalapon	0.02 ug/mL
							Dicamba	0.02 ug/mL
							Dichlorprop	0.04 ug/mL
							Dinoseb	0.006 ug/mL
							MCPA	4 ug/mL
							MCPP	4 ug/mL
							Silvex (2,4,5-TP)	0.01 ug/mL
.SGHERBST_00014	06/06/15	12/10/14	HEXANE, Lot 0000075731	10 mL	SGHERB_00020	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00020	06/30/15		Ultra Scientific, Lot CH-1737		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL3_00018	06/06/15	12/10/14	HEXANE, Lot 00000075731	100 mL	SGHERBST_00014	400 uL	2,4,5-T	0.02 ug/mL
							2,4-D	0.08 ug/mL
							2,4-DB	0.08 ug/mL
							2,4-Dichlorophenylacetic acid	0.08 ug/mL
							Dalapon	0.04 ug/mL
							Dicamba	0.04 ug/mL
							Dichlorprop	0.08 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	0.012 ug/mL
							MCPA	8 ug/mL
							MCPP	8 ug/mL
							Silvex (2,4,5-TP)	0.02 ug/mL
.SGHERBST_00014	06/06/15	12/10/14	HEXANE, Lot 0000075731	10 mL	SGHERB_00020	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00020	06/30/15		Ultra Scientific, Lot CH-1737		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL4_00011	06/06/15	12/10/14	HEXANE, Lot 00000075731	100 mL	SGHERBST_00014	800 uL	2,4,5-T	0.04 ug/mL
							2,4-D	0.16 ug/mL
							2,4-DB	0.16 ug/mL
							2,4-Dichlorophenylacetic acid	0.16 ug/mL
							Dalapon	0.08 ug/mL
							Dicamba	0.08 ug/mL
							Dichlorprop	0.16 ug/mL
							Dinoseb	0.024 ug/mL
							MCPA	16 ug/mL
							MCPP	16 ug/mL
							Silvex (2,4,5-TP)	0.04 ug/mL
.SGHERBST_00014	06/06/15	12/10/14	HEXANE, Lot 0000075731	10 mL	SGHERB_00020	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00020	06/30/15	Ultra Scientific, Lot CH-1737			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL5_00012	06/06/15	12/10/14	HEXANE, Lot 00000075731	100 mL	SGHERBST_00014	1000 uL	2,4,5-T	0.05 ug/mL
							2,4-D	0.2 ug/mL
							2,4-DB	0.2 ug/mL
							2,4-Dichlorophenylacetic acid	0.2 ug/mL
							Dalapon	0.1 ug/mL
							Dicamba	0.1 ug/mL
							Dichlorprop	0.2 ug/mL
							Dinoseb	0.03 ug/mL
							MCPA	20 ug/mL
							MCPP	20 ug/mL
							Silvex (2,4,5-TP)	0.05 ug/mL
.SGHERBST_00014	06/06/15	12/10/14	HEXANE, Lot 0000075731	10 mL	SGHERB_00020	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00020	06/30/15	Ultra Scientific, Lot CH-1737			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL6_00013	06/06/15	12/10/14	HEXANE, Lot 00000075731	100 mL	SGHERBST_00014	1.6 mL	2,4,5-T	0.08 ug/mL
							2,4-D	0.32 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	0.32 ug/mL
							2,4-Dichlorophenylacetic acid	0.32 ug/mL
							Dalapon	0.16 ug/mL
							Dicamba	0.16 ug/mL
							Dichlorprop	0.32 ug/mL
							Dinoseb	0.048 ug/mL
							MCPA	32 ug/mL
							MCPP	32 ug/mL
							Silvex (2,4,5-TP)	0.08 ug/mL
.SGHERBST_00014	06/06/15	12/10/14	HEXANE, Lot 0000075731	10 mL	SGHERB_00020	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00020	06/30/15	Ultra Scientific, Lot CH-1737			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGHERBL7_00003	06/06/15	12/10/14	HEXANE, Lot 00000075731	100 mL	SGHERBST_00014	3.2 mL	2,4,5-T	0.16 ug/mL
							2,4-D	0.64 ug/mL
							2,4-DB	0.64 ug/mL
							2,4-Dichlorophenylacetic acid	0.64 ug/mL
							Dalapon	0.32 ug/mL
							Dicamba	0.32 ug/mL
							Dichlorprop	0.64 ug/mL
							Dinoseb	0.096 ug/mL
							MCPA	64 ug/mL
							MCPP	64 ug/mL
							Silvex (2,4,5-TP)	0.16 ug/mL
.SGHERBST_00014	06/06/15	12/10/14	HEXANE, Lot 0000075731	10 mL	SGHERB_00020	1 mL	2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							2,4-Dichlorophenylacetic acid	20 ug/mL
							Dalapon	10 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	3 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
..SGHERB_00020	06/30/15		Ultra Scientific, Lot CH-1737		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							2,4-Dichlorophenylacetic acid	200 ug/mL
							Dalapon	100 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	30 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
SGPestAB1_00011	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	25 uL	4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL
							alpha-Chlordane	0.005 ug/mL
							beta-BHC	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							gamma-Chlordane	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL
							DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB2_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	50 uL	4,4'-DDD	0.01 ug/mL
							4,4'-DDE	0.01 ug/mL
							4,4'-DDT	0.01 ug/mL
							Aldrin	0.01 ug/mL
							alpha-BHC	0.01 ug/mL
							alpha-Chlordane	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							delta-BHC	0.01 ug/mL
							Dieldrin	0.01 ug/mL
							Endosulfan I	0.01 ug/mL
							Endosulfan II	0.01 ug/mL
							Endosulfan sulfate	0.01 ug/mL
							Endrin	0.01 ug/mL
							Endrin aldehyde	0.01 ug/mL
							Endrin ketone	0.01 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							gamma-Chlordane	0.01 ug/mL
							Heptachlor	0.01 ug/mL
							Heptachlor epoxide	0.01 ug/mL
							Methoxychlor	0.01 ug/mL
							DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SGPestAB3_00015	06/29/15	02/18/15	HEXANE, Lot 86560	200 mL	SGPESTABST_00010	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB4_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	250 uL	4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							alpha-Chlordane	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL
							Endosulfan sulfate	0.05 ug/mL
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL
							gamma-BHC (Lindane)	0.05 ug/mL
							gamma-Chlordane	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL
							DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB5_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	500 uL	4,4'-DDD	0.1 ug/mL
							4,4'-DDE	0.1 ug/mL
							4,4'-DDT	0.1 ug/mL
							Aldrin	0.1 ug/mL
							alpha-BHC	0.1 ug/mL
							alpha-Chlordane	0.1 ug/mL
							beta-BHC	0.1 ug/mL
							delta-BHC	0.1 ug/mL
							Dieldrin	0.1 ug/mL
							Endosulfan I	0.1 ug/mL
							Endosulfan II	0.1 ug/mL
							Endosulfan sulfate	0.1 ug/mL
							Endrin	0.1 ug/mL
							Endrin aldehyde	0.1 ug/mL
							Endrin ketone	0.1 ug/mL
							gamma-BHC (Lindane)	0.1 ug/mL
							gamma-Chlordane	0.1 ug/mL
							Heptachlor	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Heptachlor epoxide	0.1 ug/mL
							Methoxychlor	0.1 ug/mL
							DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB6_00010	06/29/15	12/30/14	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	1 mL	4,4'-DDD	0.2 ug/mL
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							alpha-Chlordane	0.2 ug/mL
							beta-BHC	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							gamma-Chlordane	0.2 ug/mL
							Heptachlor	0.2 ug/mL
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPESTABCV_00017	06/01/15	12/01/14	HEXANE, Lot 80387	100 mL	SGPESTABIC_00008	125 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
.SGPESTABIC_00008	06/01/15	12/01/14	HEXANE, Lot 80387	25 mL	SGPESTABIV_00010	0.5 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
..SGPESTABIV_00010	04/30/16	Ultra Scientific, Lot CL-1069			(Purchased Reagent)		4,4'-DDD	1000 ug/mL
							4,4'-DDE	1000 ug/mL
							4,4'-DDT	1000 ug/mL
							Aldrin	1000 ug/mL
							alpha-BHC	1000 ug/mL
							alpha-Chlordane	1000 ug/mL
							beta-BHC	1000 ug/mL
							delta-BHC	1000 ug/mL
							Dieldrin	1000 ug/mL
							Endosulfan I	1000 ug/mL
							Endosulfan II	1000 ug/mL
							Endosulfan sulfate	1000 ug/mL
							Endrin	1000 ug/mL
							Endrin aldehyde	1000 ug/mL
							Endrin ketone	1000 ug/mL
							gamma-BHC (Lindane)	1000 ug/mL
							gamma-Chlordane	1000 ug/mL
							Heptachlor	1000 ug/mL
							Heptachlor epoxide	1000 ug/mL
							Methoxychlor	1000 ug/mL
SGPESTPEM_00014	07/25/15	01/26/15	HEXANE, Lot 86560	100 mL	SGPESTPEMS_00011	1 mL	4,4'-DDT	0.1 ug/mL
							alpha-BHC	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							Endrin	0.05 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							Methoxychlor	0.25 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTPEMS_00011	12/31/15	Restek, Lot A085642			(Purchased Reagent)		4,4'-DDT	10 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							Endrin	5 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Methoxychlor	25 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
SGPESTTCIV_00006	07/10/15	07/12/14	HEXANE, Lot 86560	100 mL	SGPESTTCIVS_00003	0.1 mL	Chlordane (technical)	1 ug/mL
							Chlordane (technical) Peak 1	1 ug/mL
							Chlordane (technical) Peak 2	1 ug/mL
							Chlordane (technical) Peak 3	1 ug/mL
							Chlordane (technical) Peak 4	1 ug/mL
.SGPESTTCIVS_00003	07/11/15	01/29/15	HEXANE, Lot 0000086560	5 mL	SGPESTTC ICV_00002	1 mL	Chlordane (technical)	1000 ug/mL
							Chlordane (technical) Peak 1	1000 ug/mL
							Chlordane (technical) Peak 2	1000 ug/mL
							Chlordane (technical) Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlordane (technical) Peak 4	1000 ug/mL
..SGPESTTC ICV_00002	10/31/17		Restek, Lot A099127		(Purchased Reagent)		Chlordane (technical)	5000 ug/mL
							Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
SGPESTTCST_00016	07/05/15	01/06/15	HEXANE, Lot 86560	100 mL	SGPESTTCorp_00002	0.1 mL	Chlordane (technical) Peak 1	1 ug/mL
							Chlordane (technical) Peak 2	1 ug/mL
							Chlordane (technical) Peak 3	1 ug/mL
							Chlordane (technical) Peak 4	1 ug/mL
.SGPESTTCorp_00002	07/12/15	07/12/14	HEXANE, Lot 0000075731	5 mL	SGPESTTC_00006	1 mL	Chlordane (technical) Peak 1	1000 ug/mL
							Chlordane (technical) Peak 2	1000 ug/mL
							Chlordane (technical) Peak 3	1000 ug/mL
							Chlordane (technical) Peak 4	1000 ug/mL
..SGPESTTC_00006	11/30/17		Restek, Lot A099454		(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
SGPESTTCST_00016	07/05/15	01/06/15	HEXANE, Lot 86560	100 mL	SGPESTTCorp_00002	0.1 mL	Chlordane (technical)	1 ug/mL
.SGPESTTCorp_00002	07/12/15	07/12/14	HEXANE, Lot 0000075731	5 mL	SGPESTTC_00006	1 mL	Chlordane (technical)	1000 ug/mL
..SGPESTTC_00006	11/30/17		Restek, Lot A099454		(Purchased Reagent)		Chlordane (technical)	5000 ug/mL
SMLIST1 L1 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1PAH ST_00004	2 uL	1,1'-Biphenyl	0.1 ug/mL
							1-Methylnaphthalene	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Naphthalene	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	0.1 ug/mL
							Pyrene	0.1 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1 ug/mL
							Terphenyl-d14 (Surr)	0.1 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19		Restek, Lot A0101020		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1PAH ST_00004	05/31/16	01/26/15	MECL2, Lot 0000093871	3 mL	SMLIST1 PAH_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SURR_00003	60 uL	2-Fluorobiphenyl (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 PAH_00004	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L1 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMLIST1PAH ST_00004	2 uL	2,4,6-Tribromophenol (Surr)	0.1 ug/mL
							2-Fluorophenol (Surr)	0.1 ug/mL
							Phenol-d5 (Surr)	0.1 ug/mL
.SMLIST1PAH ST_00004	05/31/16	01/26/15	MECL2, Lot 0000093871	3 mL	SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
SMLIST1 L2 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dichlorophenol	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL
							bis (2-chloroisopropyl) ether	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	0.5 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Phenol-d5 (Surr)	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L3 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	20 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							bis (2-chloroisopropyl) ether	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L4 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							bis (2-chloroisopropyl) ether	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L5 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							bis (2-chloroisopropyl) ether	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added	Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L6 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							bis (2-chloroisopropyl) ether	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L7 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL
							1,2-Diphenylhydrazine	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,3-Dinitrobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	15 ug/mL
							1-Methylnaphthalene	15 ug/mL
							2,3,4,6-Tetrachlorophenol	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dichlorophenol	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL
							Benzyl alcohol	15 ug/mL
							bis (2-chloroisopropyl) ether	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	15 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							2-Fluorophenol (Surr)	15 ug/mL
							Nitrobenzene-d5 (Surr)	15 ug/mL
							Phenol-d5 (Surr)	15 ug/mL
							Terphenyl-d14 (Surr)	15 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19		Restek, Lot A0101020		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L8 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	400 uL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L9 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	500 uL	1,1'-Biphenyl	25 ug/mL
							1,2,4,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Diphenylhydrazine	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	25 ug/mL
							1-Methylnaphthalene	25 ug/mL
							2,3,4,6-Tetrachlorophenol	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dichlorophenol	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							bis (2-chloroisopropyl) ether	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	25 ug/mL
							Dibenz(a,h)anthracene	25 ug/mL
							Dibenzofuran	25 ug/mL
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							N-Nitrosodiphenylamine	50 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	25 ug/mL
							Benzoic acid	50 ug/mL
							Indene	50 ug/mL
							Atrazine	50 ug/mL
							Benzaldehyde	50 ug/mL
							Caprolactam	50 ug/mL
							3,3'-Dichlorobenzidine	50 ug/mL
							Benzidine	50 ug/mL
							2,4,6-Tribromophenol (Surr)	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol (Surr)	25 ug/mL
							Nitrobenzene-d5 (Surr)	25 ug/mL
							Phenol-d5 (Surr)	25 ug/mL
							Terphenyl-d14 (Surr)	25 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 SS W_00004	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMLIST1 SS ST_00004	200 uL	1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							bis (2-chloroisopropyl) ether	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Naphthalene	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzoic acid	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMLIST1 SS ST_00004	06/30/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 SS S1_00004	1 mL	1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 SS S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
					SMLIST1SS S10_00001	1 mL	Benzoic acid	200 ug/mL
					SMLIST1SS SUR_00002	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 SS S1_00004	06/30/16		Restek, Lot A0107697		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 SS S9_00001	07/31/16		Restek, Lot A0108170		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
..SMLIST1SS S10_00001	06/30/16		Restek, Lot A0107944		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1SS SUR_00002	09/30/18		Restek, Lot A092712		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
TOX ChemS_00004	08/11/15	02/11/15	HEXANE, Lot 86560	50 mL	TOX ChemServ_00002	0.5 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.TOX ChemServ_00002	11/30/15		ChemService, Lot 2180700		(Purchased Reagent)		Toxaphene	1000 ug/mL
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
Tox Ultra_00008	09/05/15	03/05/15	HEXANE, Lot 86559	50 mL	Tox Ultra_00006	0.5 mL	Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.Tox Ultra_00006	02/28/17		Ultra Scientific, Lot CK-0004		(Purchased Reagent)		Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
Tox Ultra_00008	09/05/15	03/05/15	HEXANE, Lot 86559	50 mL	Tox Ultra_00006	0.5 mL	Toxaphene	10 ug/mL
.Tox Ultra_00006	02/28/17		Ultra Scientific, Lot CK-0004		(Purchased Reagent)		Toxaphene	1000 ug/mL
vm100is_stk_00022	08/12/15	02/12/15	MEOH, Lot 85233	50 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100ss_stk_00019	04/21/15	10/21/14	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Dibromofluoromethane (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VM50IS_00048	08/06/15	02/05/15	MEOH, Lot 85233	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00196	04/08/15	04/01/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00063	06/08/15	12/08/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00089	02/28/15	02/25/15	MEOH, Lot na	3 mL	VMACROLSTD_00022	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00022	02/28/15	01/31/15	MEOH, Lot 0000085233	20 mL	VM568720_00004	0.25 mL	Acrolein	250 ug/mL
..VM568720_00004	02/28/15		restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00095	04/14/15	04/07/15	MEOH, Lot na	3 mL	VMACROLSTD_00024	3 mL	Acrolein	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMACROLSTD_00024	04/30/15	03/31/15	MEOH, Lot 0000085233	20 mL	VM568720_00006	0.25 mL	Acrolein	250 ug/mL
..VM568720_00006	05/31/15		restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00084	03/07/15	02/28/15	MEOH, Lot NA	2 mL	VMFASG_00026	2 mL	Vinyl chloride	50 ug/mL
.VMFASG_00026	03/12/15	02/12/15	MEOH, Lot +161620000085233JB	50 mL	VM567645S_00017	1.25 mL	Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
VMFASGW_00089	04/13/15	04/07/15	MEOH, Lot NA	2 mL	VMFASG_00027	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00027	04/13/15	03/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00090	04/20/15	04/13/15	MEOH, Lot NA	2 mL	VMFASG_00028	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00028	05/13/15	04/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00091	04/28/15	04/21/15	MEOH, Lot NA	2 mL	VMFASG_00028	2 mL	Vinyl chloride	50 ug/mL
.VMFASG_00028	05/13/15	04/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
VMFASPW_00087	03/04/15	02/25/15	MEOH, Lot n/a	2 mL	VMRFASP_00018	2 mL	1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							Benzene	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
.VMRFASP_00018	03/12/15	02/12/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							Benzene	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642S_00003	1 mL	2-Butanone (MEK)	100 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1-Dichloroethene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							Benzene	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642S_00003	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
VMFASPW_00093	04/11/15	04/07/15	MEOH, Lot n/a	2 mL	VMRFASP_00019	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
.VMRFASP_00019	04/11/15	03/11/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							Benzene	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
VMFASPW_00094	04/18/15	04/11/15	MEOH, Lot n/a	2 mL	VMRFASP_00020	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
.VMRFASP_00020	05/31/15	04/11/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2000 ug/mL
							Benzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
VMFASPW_00095	04/27/15	04/20/15	MEOH, Lot n/a	2 mL	VMRFASP_00020	2 mL	1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							Benzene	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
.VMRFASP_00020	05/31/15	04/11/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							Benzene	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1-Dichloroethene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							Benzene	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
VMRGAS_00091	02/28/15	02/24/15	MEOH, Lot 0000085233	10 mL	vm567645_00031	0.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00031	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00097	04/14/15	04/07/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00098	04/22/15	04/15/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Vinyl chloride	2500 ug/mL
VMRPRIMW_00114	03/07/15	02/28/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00120	04/14/15	04/07/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00120	04/14/15	04/07/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,2-Dichloroethene, Total	4000 ug/mL
							Xylenes, Total	4000 ug/mL
VMRPRIMW_00122	04/27/15	04/20/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							Benzene	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1-Dichloroethene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							Benzene	50 ug/mL
							Carbon tetrachloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
..VM567641_00012	02/29/16	restek, Lot A093581			(Purchased Reagent)		1,1-Dichloroethene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							Benzene	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16	Restek, Lot A093365			(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
WCCN.01MRL1_00184	04/28/15	04/21/15	NAOH, Lot 1960708	100 mL	WCCN10PPM1_00202	0.1 mL	Cyanide, Total	0.01 mg/L
.WCCN10PPM1_00202	04/28/15	04/21/15	NAOH, Lot 1960708	100 mL	WCCN1000PPM_00024	1 mL	Cyanide, Total	10 mg/L
..WCCN1000PPM_00024	12/09/16	INORGANIC VENTURES, Lot H2-CN01041			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCCN.1CCV1_00198	04/20/15	04/13/15	NAOH, Lot 1941901	100 mL	WCCN10PPM1_00201	1 mL	Cyanide, Total	0.1 mg/L
.WCCN10PPM1_00201	04/20/15	04/13/15	NAOH, Lot 1941901	100 mL	WCCN1000PPM_00024	1 mL	Cyanide, Total	10 mg/L
..WCCN1000PPM_00024	12/09/16	INORGANIC VENTURES, Lot H2-CN01041			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCCN.1CCV1_00199	04/28/15	04/21/15	NAOH, Lot 1960708	100 mL	WCCN10PPM1_00202	1 mL	Cyanide, Total	0.1 mg/L
.WCCN10PPM1_00202	04/28/15	04/21/15	NAOH, Lot 1960708	100 mL	WCCN1000PPM_00024	1 mL	Cyanide, Total	10 mg/L
..WCCN1000PPM_00024	12/09/16	INORGANIC VENTURES, Lot H2-CN01041			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCERAPHEN0L_00019	01/30/16	ERA, Lot P217-502			(Purchased Reagent)		Cyanide, Non-amenable	0.921 mg/L
							Cyanide, Total	0.921 mg/L
							Phenols, Total	0.702 mg/L
WCP-XYLENE_00016	01/19/17	Fisher Scientific, Lot 146880			(Purchased Reagent)		Flashpoint	81 Degrees F
WCPH7_00073	11/03/16	Fisher Scientific, Lot 147660			(Purchased Reagent)		Corrosivity	7 SU
WCPHLCS_00010	08/31/16	Phenova, Lot 8137-15			(Purchased Reagent)		Corrosivity	6.15 SU
WCSULFIDELCS_00843	05/14/15	04/14/15	DIWATER, Lot 030215	250 mL	WCNA SULFIDE_00778	3.5 g	Sodium Sulfide Nonahydrate	14000 mg/L
							Sulfide	1772.93 mg/L
.WCNA SULFIDE_00778	01/19/20	FISHER SCIENTIFIC, Lot 138248			(Purchased Reagent)		Sodium Sulfide Nonahydrate	1 g/g
							Sulfide	0.126638 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HP34DNTSU_00039	09/02/15	03/02/15	Acetonitrile, Lot Acetonitrile_00023	25 mL	HP8330SU_00032	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
.HP8330SU_00032	03/02/16		Restek, Lot A0102330		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
HP8330IC_00025	02/20/15	01/08/15	25% 0.1%HOAc in ACN, Lot 5160-009C	10 mL	HP8330TA_00031	10 uL	1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGTA_00027	20 uL	Nitroglycerin	200 ng/mL
					HPPETNTA_00025	20 uL	PETN	200 ng/mL
.HP8330TA_00031	10/13/15		Cerilliant, Lot ER083011-01		(Purchased Reagent)		1,3,5-Trinitrobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							2,4,6-Trinitrotoluene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Amino-4,6-dinitrotoluene	200 ug/mL
							2-Nitrotoluene	200 ug/mL
							3-Nitrotoluene	200 ug/mL
							4-Amino-2,6-dinitrotoluene	200 ug/mL
							4-Nitrotoluene	200 ug/mL
							HMX	200 ug/mL
							Nitrobenzene	200 ug/mL
							RDX	200 ug/mL
							Tetryl	200 ug/mL
.HPNGTA_00027	03/07/15		Accustandard, Lot 212031351-01		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.HPPETNTA_00025	02/20/15		Accustandard, Lot 211081055-01		(Purchased Reagent)		PETN	0.1 mg/mL
HP8330IC_00028	05/07/15	03/02/15	25% 0.1%HOAc in ACN, Lot 5160-029A	10 mL	HP8330TA_00034	10 uL	1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGTA_00035	20 uL	Nitroglycerin	200 ng/mL
					HPPETNTA_00032	20 uL	PETN	200 ng/mL
.HP8330TA_00034	10/13/15	Cerilliant, Lot ER083011-01			(Purchased Reagent)		1,3,5-Trinitrobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							2,4,6-Trinitrotoluene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Amino-4,6-dinitrotoluene	200 ug/mL
							2-Nitrotoluene	200 ug/mL
							3-Nitrotoluene	200 ug/mL
							4-Amino-2,6-dinitrotoluene	200 ug/mL
							4-Nitrotoluene	200 ug/mL
							HMX	200 ug/mL
							Nitrobenzene	200 ug/mL
							RDX	200 ug/mL
							Tetryl	200 ug/mL
.HPNGTA_00035	05/07/15	Accustandard, Lot 212031351-01			(Purchased Reagent)		Nitroglycerin	100 ug/mL
.HPPETNTA_00032	03/01/16	Accustandard, Lot 211081055-02			(Purchased Reagent)		PETN	0.1 mg/mL
HP8330ICL_00019	04/18/15	10/18/14	25:75 HOAc/ACN, Lot 5160-001B	50 mL	HP34DNTSU_00035	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00046	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00024	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15	Restek, Lot A095548			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15	Restek, Lot A0102389			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15	Restek, Lot A096573			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15	Restek, Lot AO98102			(Purchased Reagent)		PETN	1000 ug/mL
HP8330ICL_00023	04/18/15	04/06/15	25:75 HOAc/ACN, Lot 5160-029A	50 mL	HP34DNTSU_00035	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00046	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00024	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15	Restek, Lot A095548			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330ICL_00025	10/20/15	04/23/15	25:75 HOAc/ACN, Lot 5160-041E	50 mL	HP34DNTSU_00041	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00052	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00029	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HP34DNTSU_00041	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00052	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00029	10/21/15	04/21/15	Methanol, Lot 90285	10 mL	HPNGTA_00036	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00033	500 uL	PETN	50 ug/mL
..HPNGTA_00036	04/20/16		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00033	04/20/16		Restek, Lot A0106847		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L1_00019	04/18/15	11/18/14	25% 0.1%HoAC in ACN, Lot 5160-001B	50 mL	HP34DNTSU_00035	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00046	5 uL	3,5-Dinitroaniline	5 ng/mL
							1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPEGDNSP_00019	5 uL	Ethylene glycol dinitrate	5 ng/mL
					HPNGPETNSP_00024	5 uL	Nitroglycerin	5 ng/mL
							PETN	5 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15	Restek, Lot A095548			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15	Restek, Lot A0101716			(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15	Restek, Lot A0102389			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15	Restek, Lot A097821			(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15	Restek, Lot A096573			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15	Restek, Lot AO98102			(Purchased Reagent)		PETN	1000 ug/mL
HP8330L1_00021	04/18/15	02/13/15	25% 0.1%HoAC in ACN, Lot 5160-23B	50 mL	HP34DNTSU_00035	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00046	5 uL	3,5-Dinitroaniline	5 ng/mL
							1,3,5-Trinitrobenzene	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPEGDNSP_00019	5 uL	Ethylene glycol dinitrate	5 ng/mL
					HPNGPETNSP_00024	5 uL	Nitroglycerin	5 ng/mL
					HPPASP_00022	10 uL	2,4,6-Trinitrophenol	10 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L2_00013	04/18/15	11/18/14	25% 0.1%HoAC in ACN, Lot 5160-001B	50 mL	HP34DNTSU_00035	10 uL	3,4-Dinitrotoluene	10 ng/mL
					HP8330SP_00046	10 uL	3,5-Dinitroaniline	10 ng/mL
							1,3,5-Trinitrobenzene	10 ng/mL
							1,3-Dinitrobenzene	10 ng/mL
							2,4,6-Trinitrotoluene	10 ng/mL
							2,4-Dinitrotoluene	10 ng/mL
							2,6-Dinitrotoluene	10 ng/mL
							2-Amino-4,6-dinitrotoluene	10 ng/mL
							2-Nitrotoluene	10 ng/mL
							3-Nitrotoluene	10 ng/mL
							4-Amino-2,6-dinitrotoluene	10 ng/mL
							4-Nitrotoluene	10 ng/mL
							HMX	10 ng/mL
							Nitrobenzene	10 ng/mL
							RDX	10 ng/mL
							Tetryl	10 ng/mL
					HPEGDNSP_00019	10 uL	Ethylene glycol dinitrate	10 ng/mL
					HPNGPETNSP_00024	10 uL	Nitroglycerin	10 ng/mL
							PETN	10 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L2_00015	04/18/15	03/02/15	25% 0.1%HoAC in ACN, Lot 5160-023E	50 mL	HP34DNTSU_00035	10 uL	3,4-Dinitrotoluene	10 ng/mL
					HP8330SP_00046	10 uL	3,5-Dinitroaniline	10 ng/mL
							1,3,5-Trinitrobenzene	10 ng/mL
							1,3-Dinitrobenzene	10 ng/mL
							2,4,6-Trinitrotoluene	10 ng/mL
							2,4-Dinitrotoluene	10 ng/mL
							2,6-Dinitrotoluene	10 ng/mL
							2-Amino-4,6-dinitrotoluene	10 ng/mL
							2-Nitrotoluene	10 ng/mL
							3-Nitrotoluene	10 ng/mL
							4-Amino-2,6-dinitrotoluene	10 ng/mL
							4-Nitrotoluene	10 ng/mL
							HMX	10 ng/mL
							Nitrobenzene	10 ng/mL
							RDX	10 ng/mL
							Tetryl	10 ng/mL
					HPEGDNSP_00019	10 uL	Ethylene glycol dinitrate	10 ng/mL
					HPNGPETNSP_00024	10 uL	Nitroglycerin	10 ng/mL
							PETN	10 ng/mL
					HPPASP_00022	20 uL	2,4,6-Trinitrophenol	20 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L3_00014	04/18/15	11/18/14	25% 0.1%HoAC in ACN, Lot 5160-001B	25 mL	HP34DNTSU_00035	10 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00046	10 uL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL
							2-Nitrotoluene	20 ng/mL
							3-Nitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							4-Nitrotoluene	20 ng/mL
							HMX	20 ng/mL
							Nitrobenzene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
					HPEGDNSP_00019	10 uL	Ethylene glycol dinitrate	20 ng/mL
					HPNGPETNSP_00024	10 uL	Nitroglycerin	20 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PETN	20 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L3_00016	04/18/15	03/11/15	25% 0.1%HoAC in ACN, Lot 5160-029A	25 mL	HP34DNTSU_00035	10 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00046	10 uL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrotoluene	20 ng/mL
							3-Nitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							4-Nitrotoluene	20 ng/mL
							HMX	20 ng/mL
							Nitrobenzene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
					HPEGDNSP_00019	10 uL	Ethylene glycol dinitrate	20 ng/mL
					HPNGPETNSP_00024	10 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
					HPPASP_00022	25 uL	2,4,6-Trinitrophenol	50 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L4_00023	04/18/15	01/07/14	25% 0.1%HoAC in ACN, Lot 5160-009C	200 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00046	200 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPEGDNSP_00019	200 uL	Ethylene glycol dinitrate	50 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L4_00024	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	200 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00046	200 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPEGDNSP_00019	200 uL	Ethylene glycol dinitrate	50 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
					HPPASP_00022	400 uL	2,4,6-Trinitrophenol	100 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L4_00025	04/18/15	04/01/15	25% 0.1%HoAC in ACN, Lot 5160-029A	200 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00046	200 uL	1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L4_00026	10/20/15	04/20/15	25% 0.1%HoAC in ACN, Lot 5160-029A	200 mL	HP34DNTSU_00041	200 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00052	200 uL	1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPNGPETNSP_00028	200 uL	Nitroglycerin	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PETN	50 ng/mL
.HP34DNTSU_00041	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00052	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00028	10/20/15	04/20/15	Methanol, Lot 90285	10 mL	HPNGTA_00036	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00033	500 uL	PETN	50 ug/mL
..HPNGTA_00036	04/20/16		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00033	04/20/16		Restek, Lot A0106847		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00032	04/18/15	11/18/14	25% 0.1%HoAC in ACN, Lot 5160-009C	100 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00046	200 uL	3,5-Dinitroaniline	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPEGDNSP_00019	200 uL	Ethylene glycol dinitrate	100 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00033	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	100 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00046	200 uL	3,5-Dinitroaniline	100 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPEGDNSP_00019	200 uL	Ethylene glycol dinitrate	100 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
					HPPASP_00022	400 uL	2,4,6-Trinitrophenol	200 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L5_00034	04/18/15	04/01/15	25% 0.1%HoAC in ACN, Lot 5160-029A	100 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00046	200 uL	1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00035	10/20/15	04/21/15	25% 0.1%HoAC in ACN, Lot 5160-029A	50 mL	HP34DNTSU_00041	100 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00052	100 uL	1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPNGPETNSP_00028	100 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP34DNTSU_00041	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00052	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00028	10/20/15	04/20/15	Methanol, Lot 90285	10 mL	HPNGTA_00036	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00033	500 uL	PETN	50 ug/mL
..HPNGTA_00036	04/20/16		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00033	04/20/16		Restek, Lot A0106847		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L6_00026	04/18/15	11/17/14	25% 0.1%HoAC in ACN, Lot 5160-001B	25 mL	HP34DNTSU_00035	100 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00046	100 uL	3,5-Dinitroaniline	200 ng/mL
							1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPEGDNSP_00019	100 uL	Ethylene glycol dinitrate	200 ng/mL
					HPNGPETNSP_00024	100 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L6_00027	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	25 mL	HP34DNTSU_00035	100 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00046	100 uL	3,5-Dinitroaniline	200 ng/mL
							1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPEGDNSP_00019	100 uL	Ethylene glycol dinitrate	200 ng/mL
					HPNGPETNSP_00024	100 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HPPASP_00022	250 uL	2,4,6-Trinitrophenol	500 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L7_00016	04/18/15	01/08/15	25% 0.1%HoAC in ACN, Lot 5160-009C	10 mL	HP34DNTSU_00035	100 uL	3,4-Dinitrotoluene	500 ng/mL
					HP8330SP_00046	100 uL	3,5-Dinitroaniline	500 ng/mL
							1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPEGDNSP_00019	100 uL	Ethylene glycol dinitrate	500 ng/mL
					HPNGPETNSP_00024	100 uL	Nitroglycerin	500 ng/mL
							PETN	500 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15	Restek, Lot A096573			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15	Restek, Lot AO98102			(Purchased Reagent)		PETN	1000 ug/mL
HP8330L7_00018	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	25 mL	HP34DNTSU_00035	250 uL	3,4-Dinitrotoluene	500 ng/mL
					HP8330SP_00046	250 uL	3,5-Dinitroaniline	500 ng/mL
							1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL
							Tetryl	500 ng/mL
					HPEGDNSP_00019	250 uL	Ethylene glycol dinitrate	500 ng/mL
					HPNGPETNSP_00024	250 uL	Nitroglycerin	500 ng/mL
							PETN	500 ng/mL
					HPPASP_00022	500 uL	2,4,6-Trinitrophenol	1000 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15	Restek, Lot A095548			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15	Restek, Lot A0101716			(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15	Restek, Lot A0102389			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330SP_00051	09/11/15	03/11/15	Acetonitrile, Lot Acetonitrile_00024	10 mL	HP35DNATA_00030	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00032	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
.HP35DNATA_00030	11/17/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
.HP8330TA_00032	11/17/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HPNCSP_00013	07/14/15	01/14/15	Acetone, Lot 0000090987	200 mL	HPNCTA_00005	0.1014 g	Nitrocellulose	507 ug/mL
.HPNCTA_00005	11/01/17	Theater Affects, Lot 4721			(Purchased Reagent)		Nitrocellulose	1 g/g
HPNGPETNSP_00026	07/29/15	01/29/15	Methanol, Lot Methanol_00025	25 mL	HPNGTA_00033	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00030	1.25 mL	PETN	50 ug/mL
.HPNGTA_00033	01/29/16	Restek, Lot A0105695			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPETNTA_00030	01/29/16	Restek, Lot AO98102			(Purchased Reagent)		PETN	1000 ug/mL
HPNQIC_00007	07/03/15	04/10/15	Water, Lot M04102015	50 mL	HPNQTA_00017	250 uL	Nitroguanidine	500 ng/mL
.HPNQTA_00017	07/03/15	AccuStandard, Inc, Lot 213071053			(Purchased Reagent)		Nitroguanidine	100 ug/mL
HPNQL2_00008	04/27/15	11/19/14	Water, Lot M11172014	50 mL	HPNQSP_00016	20 uL	Nitroguanidine	20 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL3_00007	04/27/15	11/19/14	Water, Lot M11172014	25 mL	HPNQSP_00016	25 uL	Nitroguanidine	50 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL4_00009	04/27/15	10/28/14	Water, Lot M10272014	50 mL	HPNQSP_00016	100 uL	Nitroguanidine	100 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL5_00008	04/27/15	10/27/14	Water, Lot M10272014	50 mL	HPNQSP_00016	200 uL	Nitroguanidine	200 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL6_00007	04/27/15	11/19/14	Water, Lot M11172014	25 mL	HPNQSP_00016	250 uL	Nitroguanidine	500 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL7_00007	04/27/15	11/19/14	Water, Lot M11192014	25 mL	HPNQSP_00016	500 uL	Nitroguanidine	1000 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15	Restek, Lot A076817			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQSP_00015	04/17/15	10/17/14	Methanol, Lot 0000042259	25 mL	HPNQTA_00015	1.25 mL	Nitroguanidine	50 ug/mL
.HPNQTA_00015	10/17/15	Restek, Lot A0100497			(Purchased Reagent)		Nitroguanidine	1000 ug/mL
WC-353.2-ICV_00046	05/06/15	04/06/15	DI Water, Lot xxxxxxx	100 mL	WC-N02-1000_00052	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.33333 mg/L as N
					WC-N03-1000_00028	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.33333 mg/L as N
.WC-N02-1000_00052	05/25/15	CPI International, Lot 1064466			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WC-N03-1000_00028	08/12/15	CPI, Lot 1070689			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N
WC-353.2-L1_00051	05/06/15	04/06/15	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00049	0.05 mL	Nitrocellulose	0.416667 mg/L as N
.WC-353.2-INT_00049	05/06/15	04/06/15	DI Water, Lot xxxxxxx	10 mL	WC-N02SS50223_00002	0.5 mL	Nitrocellulose	833.333 mg/L as N
					WC-N03SS50223_00002	0.5 mL	Nitrocellulose	833.333 mg/L as N
..WC-N02SS50223_00002	08/23/15	ERA, Lot 070414			(Purchased Reagent)		Nitrocellulose	8333.33 mg/L as N
..WC-N03SS50223_00002	08/23/15	ERA, Lot 320614			(Purchased Reagent)		Nitrocellulose	8333.33 mg/L as N
WC-353.2-L4_00042	05/06/15	04/06/15	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00049	1 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.33333 mg/L as N
.WC-353.2-INT_00049	05/06/15	04/06/15	DI Water, Lot xxxxxxx	10 mL	WC-N02SS50223_00002	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	833.333 mg/L as N
					WC-N03SS50223_00002	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	833.333 mg/L as N
..WC-N02SS50223_00002	08/23/15	ERA, Lot 070414			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N
..WC-N03SS50223_00002	08/23/15	ERA, Lot 320614			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N

Reagent

EXHERBSURR_00015

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

DCAA (2,4-Dichlorophenylacetic Acid) Solution

Product Number: PPS-162 **Page:** 1 of 1

Lot Number: CL-0981 **Lot Issue Date:** 13-Mar-2014 **Expiration Date:** 30-Apr-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
DCAA	019719-28-9	RM01251	5003 ± 25 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
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William J. Leary
Quality Assurance Manager

Reagent

EXHERBTCLPSPK_00008

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Rec 1-8-15

Custom Standard

Product Number: CUS-9649 **Page:** 1 of 1

Lot Number: CL-5410 **Lot Issue Date:** 06-Jan-2015 **Expiration Date:** 31-Jan-2017

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2,4-D	000094-75-7	RM02867	2008 ± 10 µg/mL
2,4,5-TP	000093-72-1	RM04637	501.0 ± 2.5 µg/mL

Matrix: acetone

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

William J. Leahy
Quality Assurance Manager

250 SMITH STREET N. KINGSTOWN, RHODE ISLAND 02852 USA WWW.ULTRASCI.COM

Reagent

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exNPDES stock_00001

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32415 Lot No.: A0101246

Description : Organochlorine Pesticide Mix AB #3

Organochlorine Pesticide Mix AB #3 2,000 µg/mL, Hexane/Toluene (50:50), 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : February 28, 2018 Storage: 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	alpha-BHC		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 319-84-6	(Lot 27275-15)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
2	gamma-BHC (Lindane)		2,002.0 µg/mL		+/- 11.7489	µg/mL	Gravimetric
	CAS # 58-89-9	(Lot 2038100)			+/- 78.3137	µg/mL	Unstressed
	Purity 99%				+/- 124.2763	µg/mL	Stressed
3	beta-BHC		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 319-85-7	(Lot ER031313-01)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
4	delta-BHC		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 319-86-8	(Lot ER030911-01)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
5	Heptachlor		2,000.2 µg/mL		+/- 11.7382	µg/mL	Gravimetric
	CAS # 76-44-8	(Lot RM03111)			+/- 78.2425	µg/mL	Unstressed
	Purity 98%				+/- 124.1633	µg/mL	Stressed
6	Aldrin		2,001.0 µg/mL		+/- 11.7430	µg/mL	Gravimetric
	CAS # 309-00-2	(Lot 1949600)			+/- 78.2746	µg/mL	Unstressed
	Purity 99%				+/- 124.2142	µg/mL	Stressed
7	Heptachlor epoxide (isomer B)		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 1024-57-3	(Lot 34750-73)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
8	trans-Chlordane		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 5103-74-2	(Lot ER061906-04)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed

9	cis-Chlordane CAS # 5103-71-9 Purity 99%	(Lot ER062410-01)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	4,4'-DDE CAS # 72-55-9 Purity 99%	(Lot ER011106-01)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Endosulfan I CAS # 959-98-8 Purity 98%	(Lot ER012105-02)	2,001.2	µg/mL	+/- 11.7439 +/- 78.2809 +/- 124.2241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Dieldrin CAS # 60-57-1 Purity 98%	(Lot ER030105-03)	1,999.2	µg/mL	+/- 11.7324 +/- 78.2042 +/- 124.1025	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Endrin CAS # 72-20-8 Purity 99%	(Lot 461-108A)	2,001.0	µg/mL	+/- 11.7430 +/- 78.2746 +/- 124.2142	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4,4'-DDD CAS # 72-54-8 Purity 97%	(Lot ER061207-01)	2,002.1	µg/mL	+/- 11.7493 +/- 78.3169 +/- 124.2813	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Endosulfan II CAS # 33213-65-9 Purity 99%	(Lot ER102407-02)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	4,4'-DDT CAS # 50-29-3 Purity 98%	(Lot ER012306-03)	2,000.2	µg/mL	+/- 11.7382 +/- 78.2425 +/- 124.1633	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Endrin aldehyde CAS # 7421-93-4 Purity 98%	(Lot ER082306-01)	1,999.2	µg/mL	+/- 11.7324 +/- 78.2042 +/- 124.1025	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Methoxychlor CAS # 72-43-5 Purity 99%	(Lot 1977500)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Endosulfan sulfate CAS # 1031-07-8 Purity 99%	(Lot ER042406-04)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Endrin ketone CAS # 53494-70-5 Purity 98%	(Lot ER062806-01)	2,005.1	µg/mL	+/- 11.7669 +/- 78.4342 +/- 124.4675	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

Reagent

MS6020ACRIA_00002

INORGANIC VENTURES™
300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-ICPMS-6020A-CRI-A
Lot Number:	H2-MEB537060
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Ca, K, Mg, Na, 100 µg/mL ea: Fe, 50 µg/mL ea: Al, 20 µg/mL ea: B, Zn, 10 µg/mL ea: Sr, 5 µg/mL ea: As, Ba, Mn, Se, V, 2 µg/mL ea: Cr3, Cu, Ni, Tl, 1 µg/mL ea: Be, Cd, Co, Pb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	50.02 ± 0.30 µg/mL	Arsenic, As	5.001 ± 0.032 µg/mL	Barium, Ba	5.001 ± 0.032 µg/mL
Beryllium, Be	1.000 ± 0.007 µg/mL	Boron, B	20.00 ± 0.13 µg/mL	Cadmium, Cd	0.999 ± 0.008 µg/mL
Calcium, Ca	1,000 ± 6 µg/mL	Chromium+3, Cr3	2.000 ± 0.012 µg/mL	Cobalt, Co	0.999 ± 0.008 µg/mL
Copper, Cu	2.001 ± 0.013 µg/mL	Iron, Fe	100.0 ± 0.5 µg/mL	Lead, Pb	1.000 ± 0.006 µg/mL
Magnesium, Mg	1,000 ± 5 µg/mL	Manganese, Mn	5.000 ± 0.029 µg/mL	Nickel, Ni	2.000 ± 0.012 µg/mL
Potassium, K	1,001 ± 4 µg/mL	Selenium, Se	5.000 ± 0.029 µg/mL	Sodium, Na	999 ± 4 µg/mL
Strontium, Sr	10.00 ± 0.06 µg/mL	Thallium, Tl	2.001 ± 0.013 µg/mL	Vanadium, V	5.000 ± 0.032 µg/mL
Zinc, Zn	20.02 ± 0.11 µg/mL				

Certified Density: 1.036 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 14, 2014

11.2 Expiration Date

EXPIRES
1 Aug 2015

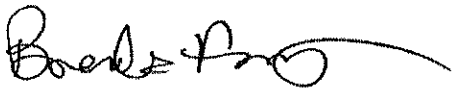
11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

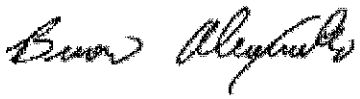
Certificate Prepared By:

Brenda Francis
Product Documentation Technician



Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MS6020ACRIB_00002

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-ICPMS-6020A-CRI-B
Lot Number:	H2-MEB537061
Matrix:	5% (v/v) HNO3 tr HF
Value / Analyte(s):	10 µg/mL ea: Mo, Sn, Ti, W, 2 µg/mL ea: Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	2.001 ± 0.013 µg/mL	Molybdenum, Mo	10.00 ± 0.06 µg/mL	Tin, Sn	10.00 ± 0.06 µg/mL
Titanium, Ti	10.00 ± 0.07 µg/mL	Tungsten, W	10.00 ± 0.06 µg/mL		

Certified Density: 1.023 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808
W	Calculated		See Sec. 4.2
W	ICP Assay	3163	060331

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 14, 2014

11.2 Expiration Date

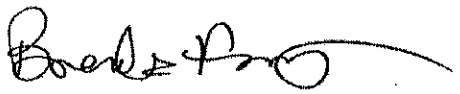
11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

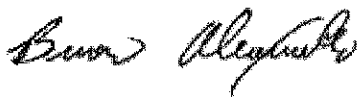
Certificate Prepared By:

Brenda Francis
Product Documentation Technician



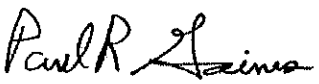
Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director



Reagent

MTAG_00005

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	Silver	Source Material:	Silver metal
Part Number:	**100051-1**	Material Purity:	99.999%
Lot Number:	**1401302**	Matrix:	2% (v/v) HNO_3

Certified Value: 1000 µg/mL ± 3 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3151 (lot number 992212) by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Density: 1.008 g/mL ± 0.002 g/mL @ 21.6°C

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot at 1000 µg/mL via ICP analysis. The values are reported in µg/L.

Ag		M	Cu	<	0.1	Li	<	0.5	Rb	<	0.02	Th	<	0.02
Al	<	0.1	Dy	<	0.02	Lu	<	0.02	Re	<	0.02	Ti	<	0.02
As	<	0.05	Er	<	0.02	Mg	<	0.5	Rh	<	0.02	Tl	<	0.02
Au	<	0.02	Eu	<	0.02	Mn	<	0.1	Ru	<	0.02	Tm	<	0.02
B	<	1	Fe	<	1	Mo	<	0.02	Sb	<	0.02	U	<	0.1
Ba	<	0.02	Ga	<	0.02	Na	<	3	Sc	<	0.02	V	<	0.05
Be	<	0.02	Gd	<	0.02	Nb	<	0.02	Se	<	0.1	W	<	0.02
Bi	<	0.02	Ge	<	0.02	Nd	<	0.02	Si	<	50	Y	<	0.02
Ca	<	1	Hf	<	0.02	Ni	<	0.1	Sm	<	0.02	Yb	<	0.02
Cd	<	0.02	Ho	<	0.02	Os	<	0.02	Sn	<	1	Zn	<	1
Ce	<	0.02	In	<	0.02	Pb	<	0.05	Sr	<	0.02	Zr	<	0.02
Co	<	1	Ir	<	0.02	Pd	<	0.1	Ta	<	0.02			
Cr	<	0.1	K	<	1	Pr	<	0.02	Tb	<	0.02			
Cs	<	6	La	<	0.02	Pt	<	0.02	Te	<	0.02			

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Intended Use:

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of silver, calibration of instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
   The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
b. **Volumetric Device**
   The calibration of volumetric vessels is checked annually using the ASTM method E542.
c. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
d. **Calibration Standards:**
   The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**January 13, 2014**
Shipped Date:	**6/27/14**
Expiration Date:	**12/27/15**
Certificate Issue Date:	**February 28, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Certificate Revision History: Rev No.: **5.2.1** –modified uncertainty. Rev No.: **5.2.0** – Original Certificate.

Reagent

MTHGCAL_00016

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHGN-10PPM
Lot Number:	H2-HG02126
Matrix:	10% (v/v) HNO3
Value/Analyte(s):	10 µg/mL Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1780
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.009 ± 0.077 µg/mL

Certified Density: 1.050 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1

ICP Assay NIST SRM 3133 Lot Number: 061204

Assay Method #2

EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two Methods

Certified Value, $X_{CRM/RM}$, where two methods of characterization are used is the weighted mean of the two results:

$X_{CRM/RM} = [(w_a)(X_a) + (w_b)(X_b)]$

X_a = mean of Assay Method A with standard uncertainty $u_{char\ a}$

X_b = mean of Assay Method B with standard uncertainty $u_{char\ b}$

w_a and w_b = the weighting factors for each method calculated using the inverse square of the variance:

$w_a = (1/u_{char\ a})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

$w_b = (1/u_{char\ b})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a\&b} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{1/2}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a\&b} = [(w_a)^2 (u_{char\ a})^2 + (w_b)^2 (u_{char\ b})^2]^{1/2}$ where $u_{char\ a}$ and $u_{char\ b}$ are the square root of the sum of the squares of errors from characterization which include instrument measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{sts} = short term stability standard uncertainty (transportation)

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM}$ = mean of Assay Method A with standard uncertainty $u_{char\ a}$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{1/2}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a}$ = square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{sts} = short term stability standard uncertainty (transportation)

No correction has been applied for transpiration that will occur after the CRM/RM bottle has been removed from the sealed aluminized bag. See Sec. 7.0 (Instructions for the Correct Use of this Reference Material) for more information.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004113	M	Er	<	0.010282	M	Mn	<	0.008226	O	S	<	0.025000	M	V	<	0.004113
O	Al			M	Eu	<	0.006169	M	Mo	<	0.004113	M	Sb	<	0.001028	M	W	<	0.020564
M	As	<	0.020564	O	Fe	<	0.001100	O	Na		0.000005	M	Sc	<	0.020564	M	Y	<	0.082257
M	Au	<	0.006169	M	Ga	<	0.002056	M	Nb	<	0.001028	M	Se	<	0.016451	M	Yb	<	0.002056
M	B	<	0.143950	M	Gd	<	0.002056	M	Nd	<	0.004113	O	Si	<	0.003400	M	Zn	<	0.041129
M	Ba	<	0.020564	O	Ge	<	0.018000	O	Ni	<	0.001000	M	Sm	<	0.002056	M	Zr	<	0.010282
M	Be	<	0.001028	M	Hf	<	0.004113	n	Os	<		M	Sn	<	0.010282				
M	Bi	<	0.000823	s	Hg	<		O	P	<	0.002600	M	Sr	<	0.001028				
O	Ca		0.000022	M	Ho	<	0.001028	M	Pb	<	0.006169	M	Ta	<	0.014395				
O	Cd	<	0.004600	M	In	<	0.020564	O	Pd	<	0.003800	M	Tb	<	0.000617				
M	Ce	<	0.010282	M	Ir	<	0.010282	M	Pr	<	0.000617	M	Te	<	0.061693				
M	Co	<	0.006169	O	K	<	0.002000	M	Pt	<	0.004113	M	Th	<	0.002056				
M	Cr	<	0.010282	M	La	<	0.001028	M	Rb	<	0.002056	M	Ti	<	0.102822				
M	Cs	<	0.000617	O	Li	<	0.000020	M	Re	<	0.002056	O	Tl	<	0.006000				
M	Cu	<	0.012339	M	Lu	<	0.000823	M	Rh	<	0.002056	M	Tm	<	0.000823				
M	Dy	<	0.012339	O	Mg		0.000006	M	Ru	<	0.004113	M	U	<	0.004113				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30°C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag keep cap tightly sealed when not in use. Store and use at 20° ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT.**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.
Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

- May 09, 2014

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec. 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year from the date of opening the sealed TCT bag or after the date given in Sec. 11.3, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.3 Lot Expiration Date

- May 09, 2017

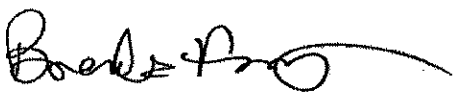
- The date after which this CRM/RM should not be used (See Sec. 11.2).

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

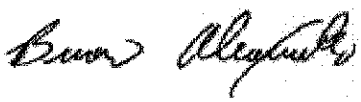
Certificate Prepared By:

Brenda Francis
Product Documentation Technician



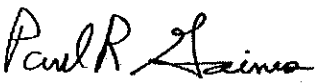
Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director



Reagent

MTHgStd_00016

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**1 33-1**	Material Purity:	99.9998%
Lot Number:	**1509117**	Matrix:	5% (v/v) HNO_3

Certified Value: 1.00 µg/mL ± 0.02 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

Intended Use:

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of mercury, calibration of instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards:**
The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for six months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**April 2, 2015**
Shipped Date:	**April 7, 2015**
Expiration Date:	**October 7, 2015**
Certificate Issue Date:	**April 2, 2015**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPCCV1_00008

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: TA-CCV1

Lot Number: J2-MEB567093

Matrix: 5% (v/v) HNO3

Value / Analyte(s):

500 000 µg/L ea:
Ca, K, Mg, Na,

250 000 µg/L ea:
Al, Fe,

50 000 µg/L ea:
B, Li, Sr,

20 000 µg/L ea:
Ba, Be, Co, Cr3, Cu, Mn, Ni, V, Zn,

10 000 µg/L ea:
Tl,

5 000 µg/L ea:
As, Cd, Pb, Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum	250 000.00 ± 1 300.00 µg/L	Arsenic	5 000 ± 32 µg/L
Barium	20 000.0 ± 90.0 µg/L	Beryllium	20 000.0 ± 90.0 µg/L
Boron	50 000.0 ± 340.0 µg/L	Cadmium	5 000 ± 32 µg/L
Calcium	500 000.00 ± 2 200.00 µg/L	Chromium+3	20 000.0 ± 100.0 µg/L
Cobalt	20 000.0 ± 100.0 µg/L	Copper	20 000.0 ± 90.0 µg/L
Iron	250 000.00 ± 1 100.00 µg/L	Lead	5 000 ± 25 µg/L
Lithium	50 000.0 ± 290.0 µg/L	Magnesium	500 000.00 ± 2 300.00 µg/L
Manganese	20 000.0 ± 90.0 µg/L	Nickel	20 000.0 ± 130.0 µg/L
Potassium	499 900.00 ± 2 200.00 µg/L	Selenium	5 000 ± 28 µg/L
Sodium	500 000.00 ± 2 200.00 µg/L	Strontium	50 000.0 ± 260.0 µg/L
Thallium	10 000.0 ± 60.0 µg/L	Vanadium	20 000.0 ± 100.0 µg/L
Zinc	20 000.0 ± 90.0 µg/L		

Certified Density: 1.034 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3181	000630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Li	ICP Assay	3129a	100714
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 27, 2015

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date

EXPIRES
01 APR 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTICPCCV2_00008

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CERTIFICATE OF ANALYSIS

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 583.01 ACCREDITED Reference Material Producer Certificate 583.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-CCV2
Lot Number:	J2-MEB567104
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	50 000 µg/L ea: Si, Sn, Ti, 20 000 µg/L ea: Mo, 10 000 µg/L ea: Ag, 5 000 µg/L ea: Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony	6 000 ± 36 µg/L	Molybdenum	20 000.0 ± 100.0 µg/L
Silicon	50 000.0 ± 340.0 µg/L	Silver	10 000.0 ± 60.0 µg/L
Tin	50 000.0 ± 230.0 µg/L	Titanium	50 000.0 ± 300.0 µg/L

Certified Density: 1.023 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = 2 [$\Sigma(s_i)^2$]$^{1/2}$ 2 = the coverage factor.
[$\Sigma(s_i)^2$]$^{1/2}$ = The square root of the sum of the squares of the most common errors (where's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- **HF Note:** This standard should not be prepared or stored in glass.

- **Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 27, 2015

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 01 APR 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTICPCRI1_00003

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-CRI1
Lot Number:	J2-MEB567105
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Ca, K, Mg, Na, 300 µg/mL ea: Fe, 200 µg/mL ea: Al, B, 50 µg/mL ea: Li, Sr, 40 µg/mL ea: Zn, 25 µg/mL ea: Ni, 20 µg/mL ea: Se, 15 µg/mL ea: As, Cu, Mn, Tl, 10 µg/mL ea: Ba, Pb, 7 µg/mL ea: V, 5 µg/mL ea: Be, Cd, Co, Cr3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum	200.0 ± 1.1 µg/mL	Arsenic	15.00 ± 0.10 µg/mL
Barium	10.00 ± 0.06 µg/mL	Beryllium	5.000 ± 0.028 µg/mL
Boron	200.0 ± 1.3 µg/mL	Cadmium	4.999 ± 0.032 µg/mL
Calcium	5 000 ± 22 µg/mL	Chromium+3	5.000 ± 0.028 µg/mL
Cobalt	4.999 ± 0.025 µg/mL	Copper	15.00 ± 0.10 µg/mL
Iron	300.0 ± 1.4 µg/mL	Lead	10.00 ± 0.06 µg/mL
Lithium	49.99 ± 0.30 µg/mL	Magnesium	5 000 ± 23 µg/mL
Manganese	15.00 ± 0.08 µg/mL	Nickel	25.00 ± 0.17 µg/mL
Potassium	5 000 ± 22 µg/mL	Selenium	20.00 ± 0.11 µg/mL
Sodium	5 000 ± 22 µg/mL	Strontium	50.01 ± 0.26 µg/mL
Thallium	15.00 ± 0.10 µg/mL	Vanadium	7.00 ± 0.04 µg/mL
Zinc	39.99 ± 0.19 µg/mL		

Certified Density: 1.086 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	060502
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	000630 Co
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Li	ICP Assay	3129a	100714
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

($\bar{x}$) = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 27, 2015

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 01 APR 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTICPCRILL3_00003

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CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 843.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-CRI-LL3
Lot Number:	J2-MEB567107
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 µg/mL ea: Ag

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Silver	5.000 ± 0.036 µg/mL		

Certified Density: 1.025 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty (±) = $2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- **Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 27, 2015

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 01 APR 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTICPICSAB1_00003

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: TA-ICSAB1

Lot Number: H2-MEB546050

Matrix: 5% (v/v) HNO3

Value / Analyte(s):

5 000 000 µg/L ea:
Al, Ca, Mg,

2 000 000 µg/L ea:
Fe,

100 000 µg/L ea:
K, Na,

15 000 µg/L ea:
Sr,

10 000 µg/L ea:
As, Cd, Ni, Pb,
Se, Tl, Zn,

5 000 µg/L ea:
B, Ba, Be, Co,
Cr3, Cu, Li, Mn,
V

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	5 000 000.000 ± 26 000.000 µg/L	Arsenic, As	10 000.0 ± 60.0 µg/L	Barium, Ba	5 000 ± 28 µg/L
Beryllium, Be	4 999 ± 28 µg/L	Boron, B	5 000 ± 32 µg/L	Cadmium, Cd	10 000.0 ± 60.0 µg/L
Calcium, Ca	5 000 000.000 ± 22 000.000 µg/L	Chromium+3, Cr3	5 001 ± 28 µg/L	Cobalt, Co	5 000 ± 32 µg/L
Copper, Cu	5 001 ± 32 µg/L	Iron, Fe	2 000 000.000 ± 9 000.000 µg/L	Lead, Pb	10 000.0 ± 60.0 µg/L
Lithium, Li	5 001 ± 26 µg/L	Magnesium, Mg	5 000 000.000 ± 23 000.000 µg/L	Manganese, Mn	5 000 ± 28 µg/L
Nickel, Ni	10 000.0 ± 60.0 µg/L	Potassium, K	100 000.00 ± 700.00 µg/L	Selenium, Se	10 000.0 ± 60.0 µg/L
Sodium, Na	100 000.00 ± 400.00 µg/L	Strontium, Sr	15 000.0 ± 100.0 µg/L	Thallium, Tl	10 000.0 ± 60.0 µg/L
Vanadium, V	5 000 ± 32 µg/L	Zinc, Zn	10 000.0 ± 60.0 µg/L		

Certified Density: 1.099 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Li	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 18, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 1 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Zach Saunders
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTICPICSAB2_00003

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-ICSAB2
Lot Number:	H2-MEB546051
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	100 000 µg/L ea: Si, 10 000 µg/L ea: Ag, Mo, Sb, 5 000 µg/L ea: Sn, Ti

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	10 000.0 ± 70.0 µg/L	Molybdenum, Mo	10 000.0 ± 60.0 µg/L	Silicon, Si	100 000.00 ± 700.00 µg/L
Silver, Ag	10 000.0 ± 70.0 µg/L	Tin, Sn	5 000 ± 32 µg/L	Titanium, Ti	5 001 ± 28 µg/L

Certified Density: 1.026 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\ [\ \Sigma(s_i)^2\ ]^{1/2}$ 2 = the coverage factor.
$[\ \Sigma(s_i)^2\ ]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- **HF Note:** This standard should not be prepared or stored in glass.

- **Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 17, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 1 Sep 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Zach Saunders
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTICPMS2_00020

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: TA-84

Lot Number: H2-MEB559070

Matrix: 3% (v/v) HNO3

Value / Analyte(s): 1 000 µg/mL ea:

Al,	Ca,	Fe,
K,	Mg,	Na

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum	1 000 ± 5 µg/mL	Calcium	1 000 ± 4 µg/mL
Iron	1 000 ± 5 µg/mL	Magnesium	1 000 ± 5 µg/mL
Potassium	1 000 ± 4 µg/mL	Sodium	1 000 ± 4 µg/mL

Certified Density: 1.035 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.
$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 30, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 1 FEB 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTICPMSA_00021

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	ICV/LCS-1 10ppm
Part Number:	**SM-606-021 Solution A**
Lot Number:	**1434610**
Matrix:	2% HNO_3
Purity:	99.99% - 99.9999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
As	10.0 ± 0.1	3103a	100818	Pb	10.00 ± 0.06	3128	101026
Ba	10.00 ± 0.06	3104a	070222	Mn	10.0 ± 0.1	3132	050429
Be	10.0 ± 0.1	3105a	090514	Ni	10.00 ± 0.05	3136	120619
B	10.00 ± 0.05	3107	070514	Se	10.0 ± 0.1	3149	100901
Cd	10.00 ± 0.05	3108	130116	Sr	10.00 ± 0.05	3153a	990906
Cr	10.00 ± 0.05	3112a	030730	Tl	10.00 ± 0.05	3158	993012
Co	10.00 ± 0.05	3113	000630	V	10.00 ± 0.06	3165	992706
Cu	10.00 ± 0.05	3114	121207	Zn	10.00 ± 0.05	3168a	120629

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2
* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 12, 2014**
Shipped Date:	**December 15, 2014**
Expiration Date:	**December 15, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPMSA_00022

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: TA-ICPMS-1A

Lot Number: H2-MEB552051

Matrix: 5% (v/v) HNO3

Value / Analyte(s): 100 µg/mL ea:

As,	Ba,	Be,
Cd,	Co,	Cr3,
Cu,	Mn,	Ni,
Pb,	Se,	Sr,
V,	Zn,	

25 µg/mL ea:
Tl

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic	100.0 ± 0.9 µg/mL	Barium	100.0 ± 0.5 µg/mL
Beryllium	100.0 ± 0.5 µg/mL	Cadmium	100.0 ± 0.5 µg/mL
Chromium+3	100.0 ± 0.6 µg/mL	Cobalt	100.0 ± 0.6 µg/mL
Copper	100.0 ± 0.6 µg/mL	Lead	100.0 ± 0.6 µg/mL
Manganese	100.0 ± 0.6 µg/mL	Nickel	100.0 ± 0.6 µg/mL
Selenium	100.0 ± 0.6 µg/mL	Strontium	100.0 ± 0.5 µg/mL
Thallium	25.01 ± 0.15 µg/mL	Vanadium	100.0 ± 0.6 µg/mL
Zinc	100.0 ± 0.7 µg/mL		

Certified Density: 1.029 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	000630 Co
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 22, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date

EXPIRES
1 FEB 2016

Reagent

MTICPMSB_00021

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
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Certificate of Analysis

Product Description:

Name:	ICV/LCS-1 10ppm
Part Number:	**SM-606-021 Solution B**
Lot Number:	**1434611**
Matrix:	2% HNO_3 + Tr HF
Purity:	99.92% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Sb	10.00 ± 0.06	*		Ti	10.00 ± 0.06	3162a	130925
Mo	10.00 ± 0.06	3134	891307	W	10.00 ± 0.06	3163	080331
Ag	10.00 ± 0.05	3151	992212	Zr	10.00 ± 0.06	3169	130920
Sn	10.00 ± 0.06	3161a	070330				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 12, 2014**
Shipped Date:	**December 15, 2014**
Expiration Date:	**December 15, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPMSB_00022

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 · ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-ICPMS-1BREV1
Lot Number:	H2-MEB559071
Matrix:	5% (v/v) HNO3 tr HF
Value / Analyte(s):	100 µg/mL ea: Sn, 10 µg/mL ea: Ag, B, Mo, Sb, Ti, W

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony	10.01 ± 0.07 µg/mL	Boron	10.00 ± 0.06 µg/mL
Molybdenum	10.00 ± 0.06 µg/mL	Silver	10.00 ± 0.07 µg/mL
Tin	100.0 ± 0.5 µg/mL	Titanium	10.01 ± 0.06 µg/mL
Tungsten	10.00 ± 0.06 µg/mL		

Certified Density: 1.025 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808
W	Calculated		See Sec. 4.2
W	ICP Assay	3163	080331

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\ [\ \Sigma(s_i)^2\ ]^{½}$ 2 = the coverage factor.
$[\ \Sigma(s_i)^2\ ]^{½}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- **HF Note:** This standard should not be prepared or stored in glass.

- **Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 30, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 1 FEB 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Donna Senn

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTICPSPIKE1A_00008

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	ICP Spike 1
Part Number:	**SM-606-101 Solution A**
Lot Number:	**1434517**
Matrix:	5% HNO_3
Purity:	99.95% - 99.9999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Al	2000 ± 10	3101a	060502	Fe	1000 ± 5	*	
As	2000 ± 20	3103a	100818	Pb	500 ± 3	3128	101026
Ba	2000 ± 12	3104a	070222	Mn	500 ± 5	3132	050429
Be	50.0 ± 0.5	3105a	090514	Ni	500.0 ± 2.5	3136	120619
B	1000 ± 5	3107	070514	Se	2000 ± 20	3149	100901
Cd	50.0 ± 0.5	3108	130116	Tl	2000 ± 10	3158	993012
Cr	200 ± 1	3112a	030730	V	500 ± 3	3165	992706
Co	500.0 ± 2.5	3113	000630	Zn	500.0 ± 2.5	3168a	120629
Cu	250.00 ± 1.25	3114	121207				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 12, 2014**
Shipped Date:	**December 15, 2014**
Expiration Date:	**December 15, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPSPIKEB_00008

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	ICP Spike 1
Part Number:	**SM-606-101 Solution B**
Lot Number:	**1434518**
Matrix:	5% HNO_3 + 0.5% HF
Purity:	99.95% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Sb	500 ± 3	*		Sn	2000 ± 12	3161a	070330
Mo	1000 ± 6	3134	891307	Ti	1000 ± 6	3162a	130925

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 12, 2014**
Shipped Date:	**December 15, 2014**
Expiration Date:	**December 15, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPSpikeOdd_00005

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	ICP Spike Odds
Part Number:	**SM-606-121**
Lot Number:	**1434513**
Matrix:	2% HNO_3
Purity:	99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Li	1000 ± 6	3129a	100714	Sr	1000 ± 5	3153a	990906
Si	1000 ± 10	*					

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 12, 2014**
Shipped Date:	**December 15, 2014**
Expiration Date:	**December 15, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTMSCAL3_00008

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CERTIFICATE OF ANALYSIS

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fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: STLPA-CAL-SPECA-REV

Lot Number: H2-MEB544052

Matrix: 3% (v/v) HNO3

Value / Analyte(s):

2 500 µg/mL ea:
Ca, K, Mg, Na,
1 250 µg/mL ea:
Fe,
25 µg/mL ea:
Al, Mn,
5 µg/mL ea:
Ag, As, Ba, Be, Cd, Co,
Cr3, Cu, Ni, Pb, Se, Sr,
Tl, V, Zn

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	25.01 ± 0.17 µg/mL	Arsenic, As	5.000 ± 0.032 µg/mL	Barium, Ba	5.002 ± 0.029 µg/mL
Beryllium, Be	4.999 ± 0.029 µg/mL	Cadmium, Cd	4.999 ± 0.032 µg/mL	Calcium, Ca	2 500 ± 11 µg/mL
Chromium+3, Cr3	5.002 ± 0.029 µg/mL	Cobalt, Co	5.000 ± 0.032 µg/mL	Copper, Cu	4.998 ± 0.032 µg/mL
Iron, Fe	1 250 ± 6 µg/mL	Lead, Pb	5.002 ± 0.025 µg/mL	Magnesium, Mg	2 500 ± 12 µg/mL
Manganese, Mn	25.01 ± 0.17 µg/mL	Nickel, Ni	5.000 ± 0.029 µg/mL	Potassium, K	2 501 ± 11 µg/mL
Selenium, Se	5.001 ± 0.029 µg/mL	Silver, Ag	4.999 ± 0.036 µg/mL	Sodium, Na	2 500 ± 11 µg/mL
Strontium, Sr	5.001 ± 0.032 µg/mL	Thallium, Tl	4.998 ± 0.032 µg/mL	Vanadium, V	5.000 ± 0.032 µg/mL
Zinc, Zn	5.002 ± 0.029 µg/mL				

Certified Density: 1.052 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 22, 2014

11.2 Expiration Date

EXPIRES
1 2015

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTMSCAL4_00009

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CAL-SPECC
Lot Number:	H2-MEB544053
Matrix:	3% (v/v) HNO_3 tr. HF
Value / Analyte(s):	5 µg/mL ea: B, Mo, Sb, Sn, Ti, W

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	5.001 ± 0.047 µg/mL	Boron, B	5.000 ± 0.032 µg/mL	Molybdenum, Mo	5.001 ± 0.039 µg/mL
Tin, Sn	5.001 ± 0.036 µg/mL	Titanium, Ti	5.001 ± 0.043 µg/mL	Tungsten, W	5.002 ± 0.032 µg/mL

Certified Density: 1.017 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	060808
W	Calculated		See Sec. 4.2
W	ICP Assay	3163	080331

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\ [\ \Sigma(s_i)^2\ ]^{1/2}$ 2 = the coverage factor.
$[\ \Sigma(s_i)^2\ ]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 22, 2014

11.2 Expiration Date

EXPIRES
1 2015

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTMSICSA_00009

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 960.02

2.0 **DESCRIPTION OF CRM**

Stock Solution

Catalog No.: 6020ICS-0A

Lot Number: **G2-MEB476152MCA**

Matrix: 1.4% HNO3(v/v)

10,000 µg/mL ea:
Chloride,

2,000 µg/mL ea:
C,

1,000 µg/mL ea:
Al, Ca, Fe, K, Mg, Na, P, S,

20 µg/mL ea:
Mo, Ti

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	1,002 ± 6 µg/mL	Calcium, Ca	1,002 ± 6 µg/mL	Carbon, C	2,004 ± 13 µg/mL
Chloride, Chloride	10,020.0 ± 50.0 µg/mL	Iron, Fe	1,002 ± 7 µg/mL	Magnesium, Mg	1,002 ± 4 µg/mL
Molybdenum, Mo	20.04 ± 0.14 µg/mL	Phosphorus, P	1,002 ± 7 µg/mL	Potassium, K	1,002 ± 4 µg/mL
Sodium, Na	1,002 ± 7 µg/mL	Sulfur, S	1,002 ± 5 µg/mL	Titanium, Ti	20.04 ± 0.13 µg/mL

Certified Density: 1.034 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.
- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
C	Gravimetric		See Sec. 4.2
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Chloride	Acidimetric	84L	84L
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	010728
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84k	84k
Ti	ICP Assay	3162a	060808

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL

Custom-Grade solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al		M	Dy	< 0.000100	O	Li	0.002000	M	Pr	< 0.000100	M	Te	< 0.012007
M	Sb	< 0.000600	M	Er	< 0.000100	M	Lu	< 0.000100	M	Re	< 0.000100	M	Tb	< 0.000100
O	As	< 0.020000	M	Eu	< 0.000100	s	Mg		M	Rh	< 0.000100	M	Tl	< 0.000100
O	Ba	< 0.000200	M	Gd	< 0.000100	O	Mn	0.003000	M	Rb	< 0.020012	M	Th	< 0.000100
O	Be	< 0.000090	M	Ga	< 0.001001	O	Hg	< 0.005000	M	Ru	< 0.000100	M	Tm	< 0.000100
M	Bi	< 0.005003	O	Ge	< 0.015000	s	Mo		M	Sm	< 0.000100	M	Sn	< 0.003002
O	B	< 0.005000	M	Au	< 0.001001	M	Nd	< 0.000100	O	Sc	< 0.000700	s	Tl	
O	Cd	0.003400	M	Hf	< 0.002001	O	Ni	< 0.002000	M	Se	< 0.050029	O	W	< 0.007000
s	Ca		M	Ho	< 0.000100	M	Nb	< 0.002001	n	Si		M	U	< 0.000100
M	Ce	< 0.000500	M	In	< 0.001001	n	Os		M	Ag	< 0.001001	O	V	< 0.004000
M	Cs	< 0.001001	M	Ir	< 0.000100	M	Pd	< 0.003002	s	Na		M	Yb	< 0.000100
O	Cr	< 0.010000	s	Fe		s	P		O	Sr	0.005000	M	Y	< 0.000100
M	Co	< 0.001001	M	La	< 0.000200	M	Pt	< 0.000100	s	S		M	Zn	0.016610
O	Cu	< 0.020000	M	Pb	0.002001	s	K		M	Ta	< 0.001001	M	Zr	< 0.004002

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: July 12, 2013

Expiration Date:

EXPIRES
01 Mo 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Allyson Gulliams
Quality Control Supervisor

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Reagent

MTMSICSABSOLA_00006

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Part Number:	**SM-606-031**
	Solution A
Lot Number:	**1503726**
Matrix:	2% HNO_3
Purity:	99.99% - 99.9995%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
As	20.0 ± 0.2	3103a	100818	Pb	20.00 ± 0.12	3128	101026
Ba	20.00 ± 0.12	3104a	070222	Mn	20.0 ± 0.2	3132	050429
Be	20.0 ± 0.2	3105a	090514	Ni	20.0 ± 0.1	3136	120619
B	20.0 ± 0.1	3107	070514	Se	20.0 ± 0.2	3149	100901
Cd	20.0 ± 0.1	3108	130116	Sr	20.0 ± 0.1	3153a	990906
Cr	20.0 ± 0.1	3112a	030730	Tl	20.0 ± 0.1	3158	993012
Co	20.0 ± 0.1	3113	000630	V	20.00 ± 0.12	3165	992706
Cu	20.0 ± 0.1	3114	121207	Zn	20.0 ± 0.1	3168a	120629

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2
* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**February 6, 2015**
Shipped Date:	**February 10, 2015**
Expiration Date:	**February 10, 2016**
Certificate Issue Date:	**February 6, 2015**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTMSICSABSOLB_00006

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7908

Certificate of Analysis

Product Description:

Part Number:	**SM-606-031**
	Solution B
Lot Number:	**1504002**
Matrix:	2% HNO_3 + Tr HF
Purity:	99.92% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Sb	20.00 ± 0.12	*		Ti	20.00 ± 0.12	3162a	130925
Mo	20.00 ± 0.12	3134	891307	W	20.00 ± 0.12	3163	080331
Ag	20.0 ± 0.1	3151	992212	Zr	20.00 ± 0.12	3169	130920
Sn	20.00 ± 0.12	3161a	070330				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**February 9, 2015**
Shipped Date:	**February 10, 2015**
Expiration Date:	**February 10, 2016**
Certificate Issue Date:	**February 9, 2015**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTMSICVA_00005

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The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Additional Information:

Date Received: 29/Aug/2014

Container: 4 oz (125 mL) Narrow Mouth, LDPE clean

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Aluminum	Al	7429-90-5	3101	060502	7001.46.7P	99.9995	20	0.09
Manganese	Mn	7439-96-5	3132	050429	7017.46.5P	99.95	20	0.07
Silver	Ag	7440-22-4	3151	992212	7000.29.1P	99.999	4	0.04001
Arsenic	As	7440-38-2	3103	010713	7002.46.5P	99.9999	4	0.04
Boron	B	7440-42-8	3107	070514	7003.46.5P	99.999	4	0.04
Barium	Ba	7440-39-3	3104	070222	7004.29.2P	99.997	4	0.04
Beryllium	Be	7440-41-7	3105	892707	7005.46.5P	99.999	4	0.04
Cadmium	Cd	7440-43-9	3108	060531	7007.46.3P	99.9999	4	0.04002
Cobalt	Co	7440-48-4	3113	000630	7008.46.8P	99.995	4	0.04003
Chromium	Cr	7440-47-3	3112	030730	7009.46.3P	99.998	4	0.044
Copper	Cu	7440-50-8	3114	011017	7011.46.5P	99.9995	4	0.04001
Molybdenum	Mo	7439-98-7	3134	891307	7018.29.3P	99.999	4	0.04
Nickel	Ni	7440-02-0	3136	000612	7021.46.8P	99.995	4	0.04001
Lead	Pb	7439-92-1	3128	030721	7023.29.2P	99.999	4	0.04001
Antimony	Sb	7440-36-0	3102	061229	7026.46.3P	99.999	4	0.04002
Selenium	Se	7782-49-2	3149	992106	7027.46.4P	99.999	4	0.04001
Tin	Sn	7440-31-5	3161	070330	7029.46.4P	99.999	4	0.04
Strontium	Sr	7440-24-6	3153	990906	7030.46.4P	99.998	4	0.04001
Titanium	Ti	7440-32-6	3162	060808	7033.343.1P	99.995	4	0.04001
Thallium	Tl	7440-28-0	3158	993012	7034.29.3P	99.999	4	0.04
Vanadium	V	7440-62-2	3165	992706	7036.46.5P	99.99	4	0.04
Tungsten	W	7440-33-7	3163	080331	7072.46.2P	99.99	4	0.044011
Zinc	Zn	7440-66-6	3168	080123	7037.46.5P	99.9995	4	0.04002
Calcium	Ca	7440-70-2	3109	050825	7006.29.2P	99.999	2000	7
Potassium	K	7440-09-7	3141	051220	7013.46.9P	99.999	2000	7
Magnesium	Mg	7439-95-4	3131	050302	7016.46.5P	99.99	2000	7
Sodium	Na	7440-23-5	3152	010728	7020.46.7P	99.999	2000	7
Iron	Fe	7439-89-6	3126	051031	7012.46.14P	99.99	1000	3.5

USA

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The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

USA

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The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c = \sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Tiffany Kwasigroch

Manufacture Date: 7/18/2014

Certified By:

Zachary Spinelli

Certified Date:7/21/2014

Released By:

HuiChen Stavros, Ph.D.

Original Issue Date: 7/22/2014

Reagent

MTMSICVB_00005

USA

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The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Additional Information:

Date Received: 29/Aug/2014

Container: 4 oz (125 mL) Narrow Mouth, LDPE clean

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Aluminum	Al	7429-90-5	3101	060502	7001.46.7P	99.9995	20	0.09
Manganese	Mn	7439-96-5	3132	050429	7017.46.5P	99.95	20	0.07
Silver	Ag	7440-22-4	3151	992212	7000.29.1P	99.999	4	0.04001
Arsenic	As	7440-38-2	3103	010713	7002.46.5P	99.9999	4	0.04
Boron	B	7440-42-8	3107	070514	7003.46.5P	99.999	4	0.04
Barium	Ba	7440-39-3	3104	070222	7004.29.2P	99.997	4	0.04
Beryllium	Be	7440-41-7	3105	892707	7005.46.5P	99.999	4	0.04
Cadmium	Cd	7440-43-9	3108	060531	7007.46.3P	99.9999	4	0.04002
Cobalt	Co	7440-48-4	3113	000630	7008.46.8P	99.995	4	0.04003
Chromium	Cr	7440-47-3	3112	030730	7009.46.3P	99.998	4	0.044
Copper	Cu	7440-50-8	3114	011017	7011.46.5P	99.9995	4	0.04001
Molybdenum	Mo	7439-98-7	3134	891307	7018.29.3P	99.999	4	0.04
Nickel	Ni	7440-02-0	3136	000612	7021.46.8P	99.995	4	0.04001
Lead	Pb	7439-92-1	3128	030721	7023.29.2P	99.999	4	0.04001
Antimony	Sb	7440-36-0	3102	061229	7026.46.3P	99.999	4	0.04002
Selenium	Se	7782-49-2	3149	992106	7027.46.4P	99.999	4	0.04001
Tin	Sn	7440-31-5	3161	070330	7029.46.4P	99.999	4	0.04
Strontium	Sr	7440-24-6	3153	990906	7030.46.4P	99.998	4	0.04001
Titanium	Ti	7440-32-6	3162	060808	7033.343.1P	99.995	4	0.04001
Thallium	Tl	7440-28-0	3158	993012	7034.29.3P	99.999	4	0.04
Vanadium	V	7440-62-2	3165	992706	7036.46.5P	99.99	4	0.04
Tungsten	W	7440-33-7	3163	080331	7072.46.2P	99.99	4	0.044011
Zinc	Zn	7440-66-6	3168	080123	7037.46.5P	99.9995	4	0.04002
Calcium	Ca	7440-70-2	3109	050825	7006.29.2P	99.999	2000	7
Potassium	K	7440-09-7	3141	051220	7013.46.9P	99.999	2000	7
Magnesium	Mg	7439-95-4	3131	050302	7016.46.5P	99.99	2000	7
Sodium	Na	7440-23-5	3152	010728	7020.46.7P	99.999	2000	7
Iron	Fe	7439-89-6	3126	051031	7012.46.14P	99.99	1000	3.5

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The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

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The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c = \sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Tiffany Kwasigroch

Manufacture Date: 7/18/2014

Certified By:

Zachary Spinelli

Certified Date:7/21/2014

Released By:

HuiChen Stavros, Ph.D.

Original Issue Date: 7/22/2014

Reagent

MTNONRCRA+ODD_00002

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Part Number:	**SM-606-135**
Lot Number:	**1425326**
Matrix:	2% HNO_3 + Tr HF
Purity:	99.95% - 99.9995%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Al	100.0 ± 0.6	3101a	060502	Mo	50.0 ± 0.5	3134	891307
Sb	25.0 ± 0.3	3102a	061229	Ni	25.0 ± 0.2	3136	120619
Be	2.50 ± 0.03	3105a	090514	Si	50.0 ± 0.5	3149	*
B	50.0 ± 0.5	3107	070514	Sr	50.0 ± 0.3	3153a	990906
Co	25.0 ± 0.2	3113	000630	Tl	100.0 ± 0.6	3158	993012
Cu	12.5 ± 0.1	3114	121207	Sn	100 ± 1	3161a	070330
Fe	50.0 ± 0.3	3126a	*	Ti	50.0 ± 0.5	3162a	130925
Li	50.0 ± 0.5	3129a	100714	V	25.0 ± 0.3	3165	992706
Mn	25.0 ± 0.4	3132	050429	Zn	25.0 ± 0.2	3168a	120629

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2.

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally manufactured from CRM single element solutions that were prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

Intended Use:

The CRM is intended for use as a calibration standard and QC control for instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Informatiou:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**September 10, 2014**
Shipped Date:	**September 17, 2014**
Expiration Date:	**September 17, 2015**
Certificate Issue Date:	**September 16, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTRCRA_00009

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Part Number:	**SM-606-080**
Lot Number:	**1434520**
Matrix:	2% HNO_3
Purity:	99.98% - 99.9999%

Certified Values:

Element	(mg/L)	SRM ID	SRM Lot#	Element	(mg/L)	SRM ID	SRM Lot#
As	500 ± 5	3103a	100818	Pb	500 ± 3	3128	101026
Ba	5000 ± 30	3104a	070222	Se	100 ± 1	3149	100901
Cd	100.0 ± 0.5	3108	130116	Ag	100.0 ± 0.5	3151	992212
Cr	500 ± 2.5	3112a	030730				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2
* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 11, 2014**
Shipped Date:	**December 12, 2014**
Expiration Date:	**December 12, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTTRCAL2_00010

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	ICP Analytical Mixture 15
Part Number:	**ICP-AM-15**
Lot Number:	**1424003**
Matrix:	5% HNO_3
Purity:	99.98% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Ca	10000 ± 60	3109a	050825	K	10000 ± 100	3141a	*
Mg	10000 ± 60	3131a	050302	Na	10000 ± 60	3152a	120715

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally manufactured from CRM single element solutions that were prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

Intended Use:

The CRM is intended for use as a calibration standard and QC control for instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**August 28, 2014**
Shipped Date:	**11/19/2014**
Expiration Date:	**11/19/2015**
Certificate Issue Date:	**August 29, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTTRICSA_00012

INORGANIC™ VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Stock Solution**

Catalog No.: CLPP-ICS-A

Lot Number: **G2-MEB491156**

Matrix: 2% HNO3(v/v)

5,000 µg/mL ea:
Al, Ca, Mg,

2,000 µg/mL ea:
Fe

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	4,996 ± 31 µg/mL	Calcium, Ca	4,996 ± 31 µg/mL	Iron, Fe	1,998 ± 10 µg/mL
Magnesium, Mg	4,996 ± 32 µg/mL				

Certified Density: 1.084 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 **TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL

Custom-Grade solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al		M	Dy	< 0.000300	O	Li	0.010000	M	Pr	< 0.000300	M	Te	< 0.030004
M	Sb	< 0.003000	M	Er	< 0.000300	M	Lu	< 0.000100	M	Re	< 0.001000	M	Tb	< 0.000300
M	As	< 0.010001	M	Eu	< 0.000300	s	Mg		M	Rh	< 0.001000	M	Tl	< 0.001000
O	Ba	< 0.000900	M	Gd	< 0.000600	O	Mn	0.010000	M	Rb	< 0.001000	M	Th	< 0.000100
O	Be	< 0.000300	M	Ga	< 0.002000	O	Hg	< 0.005000	M	Ru	< 0.002000	M	Tm	< 0.000300
M	Bi	< 0.002000	i	Ge		M	Mo	< 0.009001	M	Sm	< 0.000600	M	Sn	< 0.002000
O	B	< 0.005000	O	Au	< 0.008000	M	Nd	< 0.002000	O	Sc	< 0.000300	O	Ti	< 0.005000
M	Cd	< 0.000900	M	Hf	< 0.001000	O	Ni	< 0.002300	M	Se	< 0.008001	M	W	< 0.010001
s	Ca		M	Ho	< 0.000100	M	Nb	< 0.003000	O	Si	< 0.003400	M	U	< 0.000100
M	Ce	< 0.000100	M	In	< 0.006001	n	Os		M	Ag	< 0.002000	O	V	< 0.002700
M	Cs	< 0.000300	M	Ir	< 0.005001	M	Pd	< 0.005001	O	Na	0.040000	M	Yb	< 0.000100
O	Cr	< 0.003000	s	Fe		O	P	< 0.005000	O	Sr	0.100000	O	Y	< 0.000700
O	Co	< 0.003000	M	La	< 0.002000	M	Pt	< 0.002000	n	S		O	Zn	< 0.005000
O	Cu	< 0.004000	M	Pb	< 0.004001	O	K	< 0.002000	M	Ta	< 0.003000	M	Zr	< 0.005001

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

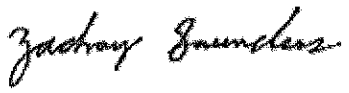
Certification Date: October 29, 2013

Expiration Date:

EXPIRES
01 JAN 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician



Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Reagent

MTTRICV3_00006

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -080925JC03	1071810	1-Apr-2016	2% HNO3 + Tr HF	ISO Guide 34 - Z-G34-4400-090825JC03, 100 mL mg/L in 2% HNO_3 + Tr HF 250 Ba, Be, Cr, Co, Cu, Mn, Mo, Ni, V, Zn

Additional Information:

Date Received: 3/3/15 AMM

Container: 4 oz (125 mL) Narrow Mouth, LDPE clean

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Barium	Ba	7440-39-3	3104	070222	7004.29.3P	99.997	250	0.88
Beryllium	Be	7440-41-7	3105	892707	7005.46.5P	99.999	250	0.88
Chromium	Cr	7440-47-3	3112	030730	7009.46.3P	99.998	250	0.88
Cobalt	Co	7440-48-4	3113	000630	7008.46.8P	99.995	250	0.88
Copper	Cu	7440-50-8	3114	011017	7011.46.5P	99.9995	250	0.88
Manganese	Mn	7439-96-5	3132	050429	7017.46.5P	99.95	250	0.88
Molybdenum	Mo	7439-98-7	3134	891307	7018.29.3P	99.999	250	0.88
Nickel	Ni	7440-02-0	3136	000612	7021.46.9P	99.995	250	0.88
Vanadium	V	7440-62-2	3165	992706	7036.46.6P	99.995	250	0.88
Zinc	Zn	7440-66-6	3168	080123	7037.46.5P	99.9995	250	0.88

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -080925JC03	1071810	1-Apr-2016	2% HNO3 + Tr HF	ISO Guide 34 - Z-G34-4400-090825JC03, 100 mL mg/L in 2% HNO_3 + Tr HF 250 Ba, Be, Cr, Co, Cu, Mn, Mo, Ni, V, Zn

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

CPI INTERNATIONAL

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -080925JC03	1071810	1-Apr-2016	2% HNO3 + Tr HF	ISO Guide 34 - Z-G34-4400-090825JC03, 100 mL mg/L in 2% HNO_3 + Tr HF 250 Ba, Be, Cr, Co, Cu, Mn, Mo, Ni, V, Zn

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty

$u_c=\sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Tiffany Kwasigroch

Manufacture Date: 2/25/2015

Certified By:

Zachary Spinelli

Certified Date:2/25/2015

Released By:

Mark Filla

Original Issue Date: 2/26/2015

Reagent

MTTRICV5_00012

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Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -080925JC05	1071811	1-Apr-2016	2% HNO3 + Tr HF	ISO Guide 34 - Z-G34-4400-090825JC05, 100 mL mg/L in 2% HNO_3 + Tr HF 500 Tl

Additional Information:

Date Received: 3/3/15

Container: 4 oz (125 mL) Narrow Mouth, LDPE clean

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Thallium	Tl	7440-28-0	3158	993012	7034.29.4P	99.99	500	1.75
Arsenic	As	7440-38-2	3103	010713	7002.46.4P	99.999	250	0.88
Cadmium	Cd	7440-43-9	3108	060531	7007.46.3P	99.9999	250	0.88
Lead	Pb	7439-92-1	3128	030721	7023.29.3P	99.999	250	0.88
Antimony	Sb	7440-36-0	3102	061229	7026.46.3P	99.999	250	0.88
Selenium	Se	7782-49-2	3149	992106	7027.46.4P	99.999	250	0.88

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Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -080925JC05	1071811	1-Apr-2016	2% HNO3 + Tr HF	ISO Guide 34 - Z-G34-4400-090825JC05, 100 mL mg/L in 2% HNO_3 + Tr HF 500 Tl

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

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Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -080925JC05	1071811	1-Apr-2016	2% HNO3 + Tr HF	ISO Guide 34 - Z-G34-4400-090825JC05, 100 mL mg/L in 2% HNO_3 + Tr HF 500 Tl

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty

$u_c=\sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

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Manufactured By:

Tiffany Kwasigroch

Manufacture Date: 2/25/2015

Certified By:

Zachary Spinelli

Certified Date:2/25/2015

Released By:

Mark Filla

Original Issue Date: 2/26/2015

Reagent

MTTRICVAG_00005

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CPI INTERNATIONAL

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-060047-03-01	1065516	1-Oct-2015	2% HNO_3	ISO Guide 34 - Silver, 100 mL 100 mg/L in 2% HNO_3 (Ag Metal)

Additional Information:

Date Received: _____

Container: 4 oz (125 mL) Narrow Mouth, HDPE clean

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Silver	Ag	7440-22-4	3151	992212	7000.29.1P	99.999	100	0.35

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CPI INTERNATIONAL

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-060047-03-01	1065516	1-Oct-2015	2% HNO_3	ISO Guide 34 - Silver, 100 mL 100 mg/L in 2% HNO_3 (Ag Metal)

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balanees are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this produet has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

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Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-060047-03-01	1065516	1-Oct-2015	2% HNO_3	ISO Guide 34 - Silver, 100 mL 100 mg/L in 2% HNO_3 (Ag Metal)

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c=\sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Tiffany Kwasigroch

Manufacture Date: 9/15/2014

Certified By:

Zachary Spinelli

Certified Date:9/18/2014

Released By:

HuiChen Stavros, Ph.D.

Original Issue Date: 9/19/2014

Reagent

MTTRQSMASPK1_00004

INORGANIC VENTURES™
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-QSM-A-SPK1
Lot Number:	H2-MEB551116
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 000 µg/L ea: Na, 1 000 000 µg/L ea: Ca, 500 000 µg/L ea: Al, K, 450 000 µg/L ea: Fe, 300 000 µg/L ea: B, Mg, 50 000 µg/L ea: Li, Sr, Zn, 45 000 µg/L ea: Cu, Tl, 40 000 µg/L ea: Se, 35 000 µg/L ea: Cd, 30 000 µg/L ea: As, 25 000 µg/L ea: Ni, 20 000 µg/L ea: Cr3, 15 000 µg/L ea: Co, Pb, 5 000 µg/L ea: Ba, V, 2 500 µg/L ea: Be, Mn

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum	500 000.00 ± 2 600.00 µg/L	Arsenic	29 990.0 ± 200.0 µg/L
Barium	5 001 ± 39 µg/L	Beryllium	2 501 ± 19 µg/L
Boron	300 000.00 ± 2 000.00 µg/L	Cadmium	35 000.0 ± 170.0 µg/L
Calcium	1 000 000.000 ± 4 000.000 µg/L	Chromium+3	20 000.0 ± 100.0 µg/L
Cobalt	15 000.0 ± 100.0 µg/L	Copper	45 020.0 ± 200.0 µg/L
Iron	450 000.00 ± 2 000.00 µg/L	Lead	15 000.0 ± 120.0 µg/L
Lithium	50 010.0 ± 290.0 µg/L	Magnesium	299 900.00 ± 1 400.00 µg/L
Manganese	2 501 ± 27 µg/L	Nickel	25 000.0 ± 170.0 µg/L
Potassium	500 000.00 ± 2 200.00 µg/L	Selenium	40 010.0 ± 230.0 µg/L
Sodium	5 000 000.000 ± 22 000.000 µg/L	Strontium	50 010.0 ± 230.0 µg/L
Thallium	45 000.0 ± 260.0 µg/L	Vanadium	5 001 ± 39 µg/L
Zinc	50 000.0 ± 230.0 µg/L		

Certified Density: 1.052 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Li	ICP Assay	3129a	100714
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

($\bar{x}$) = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 11, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date

EXPIRES
01 DEC 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTTRQSMASPK2_00004

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-QSM-A-SPK2
Lot Number:	H2-MEB551117
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	300 000 µg/L ea: Si, 50 000 µg/L ea: Ti, 30 000 µg/L ea: Sn, 15 000 µg/L ea: Sb, 10 000 µg/L ea: Ag, Mo

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony	15 000.0 ± 110.0 µg/L	Molybdenum	10 000.0 ± 60.0 µg/L
Silicon	300 000.00 ± 2 300.00 µg/L	Silver	10 000.0 ± 70.0 µg/L
Tin	29 990.0 ± 140.0 µg/L	Titanium	50 000.0 ± 300.0 µg/L

Certified Density: 1.028 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Si	Calculated		See Sec. 4.2
Si	ICP Assay	3150	071204
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.

$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- **HF Note:** This standard should not be prepared or stored in glass.

- **Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.
$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

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4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- **HF Note:** This standard should not be prepared or stored in glass.

- **Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 11, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 01 DEC 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

SG 1660 ICV_00010

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039.sec **Lot No.:** A094336

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

1637993
ID: SG 1660 ICV_00010
Exp: 06/30/19 Prpd: LSH
Arochlor 1016/1260 sec

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 12674-11-2.SEC		+/- 20.8758	µg/mL	Unstressed
	Purity ----%		+/- 34.3670	µg/mL	Stressed
2	Aroclor 1260	1,000.5 µg/mL	+/- 5.8715	µg/mL	Gravimetric
	CAS # 11096-82-5.SEC		+/- 20.8863	µg/mL	Unstressed
	Purity ----%		+/- 34.3842	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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SH

Reagent

SG1016/1260MX_00006

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A092844

Description : Aroclor® 1016/1260 Mix

Aroclor 1016/1260 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016	1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 12674-11-2		+/- 20.8643	µg/mL	Unstressed
	Purity 99%		+/- 34.3600	µg/mL	Stressed
2	Aroclor 1260	1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 11096-82-5		+/- 20.8643	µg/mL	Unstressed
	Purity ----%		+/- 34.3600	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

SG1242_00005

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A090182

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,000.0	µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)			+/- 20.8643	µg/mL	Unstressed
	Purity ----%				+/- 34.3600	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

SG1248_00003

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A086044

Description : Aroclor® 1248 Standard

Aroclor 1248 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 12672-29-6		+/- 20.8758	µg/mL	Unstressed
	Purity ----%		+/- 34.3670	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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Reagent

SGHERB_00020

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Received 6/3/13

Method 8150 Calibration Standard

Product Number: QTR-008 **Page:** 1 of 1

Lot Number: CK-1737 **Lot Issue Date:** 30-May-2013 **Expiration Date:** 30-Jun-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2,4-D methyl ester	001928-38-7	RM03040	212.9 ± 1.1 µg/mL
2,4-DB methyl ester	018625-12-2	RM03029	210.7 ± 1.1 µg/mL
silvex methyl ester	004841-20-7	RM03037	52.4 ± 0.3 µg/mL
2,4,5-T methyl ester	001928-37-6	RM03033	52.9 ± 0.3 µg/mL
dalapon methyl ester	017640-02-7	RM01429	110.0 ± 0.6 µg/mL
dicamba methyl ester	006597-78-0	RM03039	105.7 ± 0.5 µg/mL
dichlorprop methyl ester	057153-17-0	RM00002	211.5 ± 1.1 µg/mL
dinoseb methyl ether	006099-79-2	RM03051	31.9 ± 0.2 µg/mL
MCPA methyl ester	002436-73-9	RM05003	21494 ± 107 µg/mL
MCPP methyl ester	002786-19-8	RM03034	21406 ± 107 µg/mL
DCAA methyl ester	055954-23-9	RM00704	215.4 ± 1.1 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (15-30°C)

1016965
ID: SGHERB_00017
Exp:06/30/15 Prpd:DB Opn:06/03/13
Herbicide Standard Mixtur

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Reagent

SGHERBICVSTK_00002

9	2,4,5-TP (silvex) methyl ester		2.0	µg/mL	+/-	0.1208	µg/mL	Gravimetric
	CAS # 4841-20-7	(Lot 504400)			+/-	0.1361	µg/mL	Unstressed
	Purity 99%				+/-	0.1361	µg/mL	Stressed
10	2,4,5-T methyl ester		2.0	µg/mL	+/-	0.1208	µg/mL	Gravimetric
	CAS # 1928-37-6	(Lot 447-92B)			+/-	0.1361	µg/mL	Unstressed
	Purity 99%				+/-	0.1361	µg/mL	Stressed
11	2,4-DB methyl ester		8.0	µg/mL	+/-	0.0654	µg/mL	Gravimetric
	CAS # 18625-12-2	(Lot 440-121A)			+/-	0.2592	µg/mL	Unstressed
	Purity 99%				+/-	0.2592	µg/mL	Stressed
12	Picloram methyl ester		8.0	µg/mL	+/-	0.0654	µg/mL	Gravimetric
	CAS # 14143-55-6	(Lot 853300)			+/-	0.2592	µg/mL	Unstressed
	Purity 99%				+/-	0.2592	µg/mL	Stressed
13	Dinoseb methyl ether		1.2	µg/mL	+/-	0.0725	µg/mL	Gravimetric
	CAS # 6099-79-2	(Lot 820200)			+/-	0.0817	µg/mL	Unstressed
	Purity 99%				+/-	0.0817	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Recvd 6/3/13

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Certificate of Composition

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 557670 **Lot No.:** A095508

Description : Custom Herbicide Methyl Esters Standard

Herbicide Methyl Esters Std 1.2-800µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

1016966
ID: SGHERBICV_00018
Exp:05/31/15 Prpd:DB Opn:06/03/13
RESTEKHerbICV

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon methyl ester		4.0 µg/mL	+/- 0.0327	µg/mL	Gravimetric
	CAS # 17640-02-7	(Lot 622600)		+/- 0.1296	µg/mL	Unstressed
	Purity 99%			+/- 0.1296	µg/mL	Stressed
2	2,4-Dichlorophenyl acetic acid methyl ester		8.0 µg/mL	+/- 0.0654	µg/mL	Gravimetric
	CAS # 55954-23-9	(Lot CSC42194-01)		+/- 0.2592	µg/mL	Unstressed
	Purity 99%			+/- 0.2592	µg/mL	Stressed
3	Dicamba methyl ester		4.0 µg/mL	+/- 0.0327	µg/mL	Gravimetric
	CAS # 6597-78-0	(Lot 851900)		+/- 0.1296	µg/mL	Unstressed
	Purity 99%			+/- 0.1296	µg/mL	Stressed
4	MCPP (Mecoprop) methyl ester		800.3 µg/mL	+/- 4.7532	µg/mL	Gravimetric
	CAS # 2786-19-8	(Lot 251100)		+/- 25.5355	µg/mL	Unstressed
	Purity 97%			+/- 25.5355	µg/mL	Stressed
5	MCPA methyl ester		800.0 µg/mL	+/- 4.7518	µg/mL	Gravimetric
	CAS # 2436-73-9	(Lot 35091-88)		+/- 25.5275	µg/mL	Unstressed
	Purity 99%			+/- 25.5275	µg/mL	Stressed
6	Dichlorprop methyl ester		8.0 µg/mL	+/- 0.0654	µg/mL	Gravimetric
	CAS # 57153-17-0	(Lot 470700)		+/- 0.2591	µg/mL	Unstressed
	Purity 98%			+/- 0.2591	µg/mL	Stressed
7	2,4-D methyl ester		8.0 µg/mL	+/- 0.0654	µg/mL	Gravimetric
	CAS # 1928-38-7	(Lot 379-147A)		+/- 0.2591	µg/mL	Unstressed
	Purity 98%			+/- 0.2591	µg/mL	Stressed
8	Pentachloroanisole		2.0 µg/mL	+/- 0.1208	µg/mL	Gravimetric
	CAS # 1825-21-4	(Lot 401-145A)		+/- 0.1361	µg/mL	Unstressed
	Purity 98%			+/- 0.1361	µg/mL	Stressed

Reagent

SGPCB1221_00004

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A090667

Description : Aroclor® 1221 Standard

Aroclor 1221 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 2018 **Storage:** 25°C nominal

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11104-28-2		+/- 20.8758	µg/mL	Unstressed
	Purity -----%		+/- 34.3670	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

SGPCB1232STD_00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 **Lot No.:** A086119

Description : Aroclor® 1232 Standard

Aroclor 1232 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 2018 **Storage:** 25°C nominal

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11141-16-5		+/- 20.8758	µg/mL	Unstressed
	Purity 99%		+/- 34.3670	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

2 vials
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Reagent

SGPCB1254_00007

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A093609

Description : Aroclor® 1254 Standard

Aroclor 1254 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11097-69-1		+/- 20.8758	µg/mL	Unstressed
	Purity 99%		+/- 34.3670	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

SGPCB1262STD_00004

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32409 **Lot No.:** A092660

Description : Aroclor® 1262 Standard

Aroclor 1262 Std 1000µg/mL, 1mL/ampul, Hexane

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1262	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 37324-23-5		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

SGpcb1268std_00005

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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32410 **Lot No.:** A091468

Description : Aroclor® 1268 Standard

Aroclor 1268 Std 1000µg/mL, 1mL/ampul, Hexane

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1268	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11100-14-4		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

recd 7-1-13

Reagent

SGPCBSURRMX_00007

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A092533

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 2019 **Storage:** 10°C or colder

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	200.1 µg/mL	+/- 1.1662	µg/mL	Gravimetric
	CAS # 877-09-8		+/- 4.1753	µg/mL	Unstressed
	Purity 98%		+/- 6.8760	µg/mL	Stressed
2	Decachlorobiphenyl	200.0 µg/mL	+/- 1.1655	µg/mL	Gravimetric
	CAS # 2051-24-3		+/- 4.1729	µg/mL	Unstressed
	Purity 99%		+/- 6.8720	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Reagent

SGPESTAB #3_00003

Reagent

SGPESTABIV_00010

Certificate of Analysis

Organochlorine Pesticides Mixture

Product Number: PPM-808C **Page:** 1 of 2

Lot Number: CL-1069 **Lot Issue Date:** 24-Mar-2014 **Expiration Date:** 30-Apr-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
aldrin	000309-00-2	RM00635	1004 ± 5 µg/mL
alpha-BHC	000319-84-6	RM02725	1003 ± 5 µg/mL
beta-BHC	000319-85-7	RM06986	1003 ± 5 µg/mL
delta-BHC	000319-86-8	RM05696	1003 ± 5 µg/mL
gamma-BHC	000058-89-9	RM02694	1003 ± 5 µg/mL
cis-chlordane	005103-71-9	RM02742	1003 ± 5 µg/mL
trans-chlordane	005103-74-2	RM02726	1003 ± 5 µg/mL
4,4'-DDD	000072-54-8	RM00615	1004 ± 5 µg/mL
4,4'-DDE	000072-55-9	RM02892	1004 ± 5 µg/mL
4,4'-DDT	000050-29-3	RM06888	1003 ± 5 µg/mL
dieldrin	000060-57-1	RM03957	1003 ± 5 µg/mL
endosulfan I	000959-98-8	RM00834	1003 ± 5 µg/mL
endosulfan II	033213-65-9	RM07039	1003 ± 5 µg/mL
endosulfan sulfate	001031-07-8	RM06741	1003 ± 5 µg/mL
endrin	000072-20-8	NT01979	1003 ± 5 µg/mL
endrin aldehyde	007421-93-4	RM04131	1003 ± 5 µg/mL
endrin ketone	053494-70-5	RM07329	1003 ± 5 µg/mL
heptachlor	000076-44-8	RM03111	1004 ± 5 µg/mL
heptachlor epoxide - isomer B	001024-57-3	RM05373	1003 ± 5 µg/mL
methoxychlor	000072-43-5	RM07523	1004 ± 5 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

Reagent

SGPESTPEMS_00011

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

1361168
ID: SGPESTPEMS_00011
Exp:12/31/15 Prpd:RES Opn:01/29/14
PEM Source RESTEK

1361167
ID: SGPESTPEMS_00011
Exp:12/31/15 Prpd:RES Opn:01/29/14
PEM Source RESTEK

1361166
ID: SGPESTPEMS_00011
Exp:12/31/15 Prpd:RES Opn:01/29/14
PEM Source RESTEK

Catalog No. : 32074 **Lot No.:** A085642

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25ug/mL, Hexane, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : December 2015 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene **CAS #** 877-09-8 **Purity** 98%	2.0 ug/mL	+/- 0.0332 +/- 0.0770 +/- 0.1256	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
2	alpha-BHC **CAS #** 319-84-6 **Purity** 99%	1.0 ug/mL	+/- 0.0166 +/- 0.0385 +/- 0.0628	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
3	gamma-BHC (Lindane) **CAS #** 58-89-9 **Purity** 99%	1.0 ug/mL	+/- 0.0166 +/- 0.0385 +/- 0.0628	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
4	beta-BHC **CAS #** 319-85-7 **Purity** 98%	1.0 ug/mL	+/- 0.0166 +/- 0.0385 +/- 0.0628	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
5	Endrin **CAS #** 72-20-8 **Purity** 99%	5.0 ug/mL	+/- 0.0808 +/- 0.1917 +/- 0.3135	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
6	4,4'-DDT **CAS #** 50-29-3 **Purity** 99%	10.0 ug/mL	+/- 0.1615 +/- 0.3834 +/- 0.6269	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
7	Methoxychlor **CAS #** 72-43-5 **Purity** 99%	25.0 ug/mL	+/- 0.4032 +/- 0.9583 +/- 1.5672	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
8	Decachlorobiphenyl **CAS #** 2051-24-3 **Purity** 99%	2.0 ug/mL	+/- 0.0332 +/- 0.0771 +/- 0.1256	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

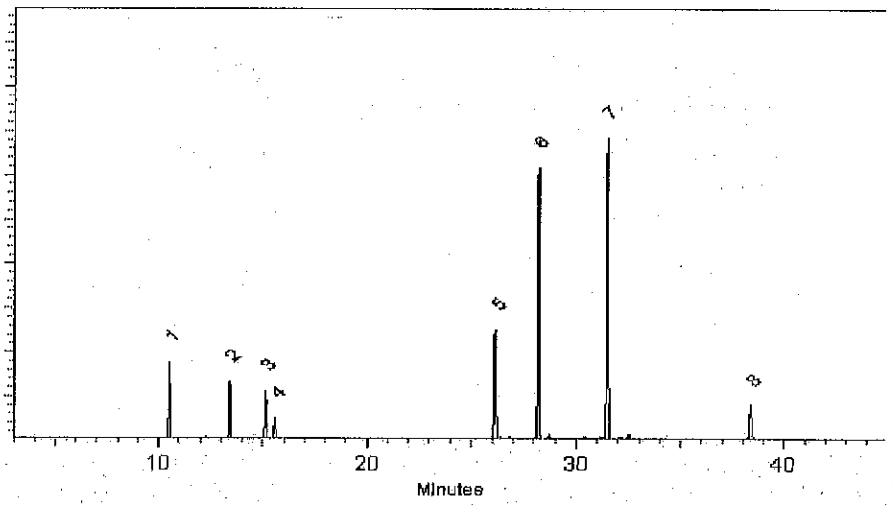
Carrier Gas:
helium-constant pressure 7 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst

Date Passed: 22-Dec-2011 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

SGPESTSURR_00006

Reagent

SGPESTTC ICV_00002

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32072.SEC **Lot No.:** A099127

Description : Chlordane Standard

Chlordane Standard 5,000 µg/mL, Isooctane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Chlordane	5,003.9 µg/mL	+/- 29.3656	µg/mL	Gravimetric
	CAS # 57-74-9,SEC (Lot 80508)		+/- 100.3941	µg/mL	Unstressed
	Purity 98%		+/- 169.5292	µg/mL	Stressed

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

Tech Tips:
CAS #57-74-9 nomenclature is based on EPA method 8081B.

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32072 **Lot No.:** A099454

Description : Chlordane Standard

Chlordane Standard 5,000 µg/mL, Isooctane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Chlordane	4,958.8 µg/mL	+/- 46.1142	µg/mL	Gravimetric
	CAS # 57-74-9 (Lot 1753800)		+/- 99.5744	µg/mL	Unstressed
	Purity 98%		+/- 168.0521	µg/mL	Stressed

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

Tech Tips:
CAS #57-74-9 nomenclature is based on EPA method 8081B.

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A0101020

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2019 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4	2,005.4 µg/mL	+/- 11.6596	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-18488)		+/- 89.1010	µg/mL	Unstressed
	Purity 99%		+/- 97.8939	µg/mL	Stressed
2	Naphthalene-d8	2,005.8 µg/mL	+/- 11.6619	µg/mL	Gravimetric
	CAS # 1146-65-2 (Lot PR-20449)		+/- 89.1187	µg/mL	Unstressed
	Purity 99%		+/- 97.9134	µg/mL	Stressed
3	Acenaphthene-d10	1,998.2 µg/mL	+/- 11.6177	µg/mL	Gravimetric
	CAS # 15067-26-2 (Lot PR-21070)		+/- 88.7811	µg/mL	Unstressed
	Purity 97%		+/- 97.5424	µg/mL	Stressed
4	Phenanthrene-d10	2,001.2 µg/mL	+/- 11.6351	µg/mL	Gravimetric
	CAS # 1517-22-2 (Lot PR-23065)		+/- 88.9144	µg/mL	Unstressed
	Purity 99%		+/- 97.6889	µg/mL	Stressed
5	Chrysene-d12	1,999.6 µg/mL	+/- 11.6258	µg/mL	Gravimetric
	CAS # 1719-03-5 (Lot PR-24875)		+/- 88.8429	µg/mL	Unstressed
	Purity 98%		+/- 97.6104	µg/mL	Stressed
6	Perylene-d12	2,002.6 µg/mL	+/- 11.6433	µg/mL	Gravimetric
	CAS # 1520-96-3 (Lot PR-24113)		+/- 88.9766	µg/mL	Unstressed
	Purity 99%		+/- 97.7572	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

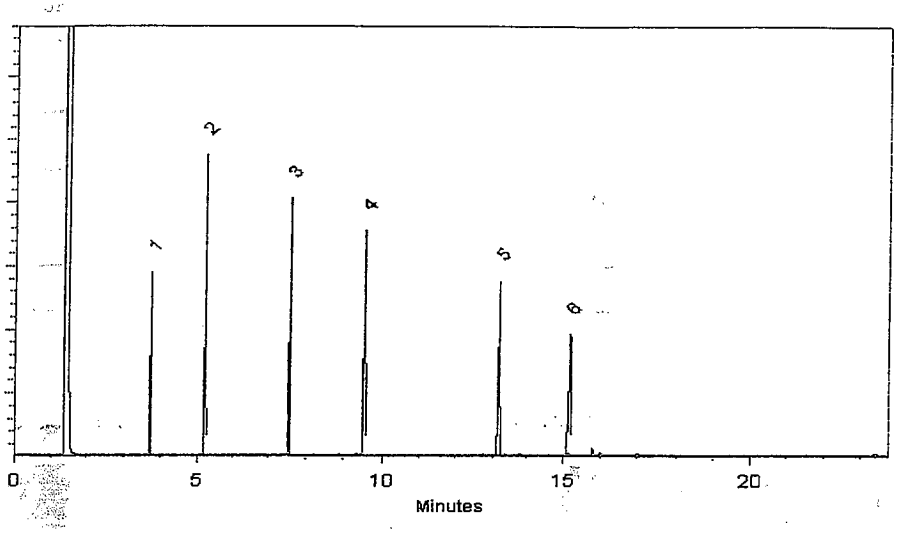
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 30-Jan-2014 **Balance:** 1128342313

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Feb-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569729 **Lot No.:** A0107399

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBD8744V)	1,004.4 µg/mL	+/- 5.8397 µg/mL +/- 10.9969 µg/mL +/- 18.6525 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot SHBC7174V)	1,001.0 µg/mL	+/- 5.8199 µg/mL +/- 10.9596 µg/mL +/- 18.5894 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 3213100)	1,000.2 µg/mL	+/- 5.8152 µg/mL +/- 10.9509 µg/mL +/- 18.5745 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot K22Z462)	1,002.3 µg/mL	+/- 5.8275 µg/mL +/- 10.9739 µg/mL +/- 18.6135 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot 45296HKV)	1,001.4 µg/mL	+/- 5.8222 µg/mL +/- 10.9640 µg/mL +/- 18.5968 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot MKBD3900V)	1,000.8 µg/mL	+/- 5.8187 µg/mL +/- 10.9575 µg/mL +/- 18.5856 µg/mL	Gravimetric Unstressed Stressed
7	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot SHBC6998V)	1,006.9 µg/mL	+/- 5.8542 µg/mL +/- 11.0242 µg/mL +/- 18.6989 µg/mL	Gravimetric Unstressed Stressed

8	n-Decane (C10)		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 124-18-5	(Lot SHBF1587V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
9	1,4-Dichlorobenzene		1,005.3	µg/mL	+/-	5.8449	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBL3891V)			+/-	11.0067	µg/mL	Unstressed
	Purity 99%				+/-	18.6692	µg/mL	Stressed
10	1,3-Dichlorobenzene		1,002.0	µg/mL	+/-	5.8257	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBC1891V)			+/-	10.9706	µg/mL	Unstressed
	Purity 99%				+/-	18.6079	µg/mL	Stressed
11	1,2-Dichlorobenzene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot 68996CMV)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
12	Benzyl alcohol		1,000.4	µg/mL	+/-	5.8164	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBC1850V)			+/-	10.9531	µg/mL	Unstressed
	Purity 99%				+/-	18.5782	µg/mL	Stressed
13	2,2'-oxybis(1-chloropropane)		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 2-EAW-18-3)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
14	2-Methylphenol (o-cresol)		1,003.6	µg/mL	+/-	5.8350	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBC1479V)			+/-	10.9881	µg/mL	Unstressed
	Purity 99%				+/-	18.6376	µg/mL	Stressed
15	Hexachloroethane		1,005.9	µg/mL	+/-	5.8484	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot 4H3SF)			+/-	11.0133	µg/mL	Unstressed
	Purity 99%				+/-	18.6804	µg/mL	Stressed
16	Acetophenone		1,002.7	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot MKBR7156V)			+/-	10.9783	µg/mL	Unstressed
	Purity 99%				+/-	18.6209	µg/mL	Stressed
17	N-Nitroso-di-n-propylamine		1,003.9	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot OPAGF)			+/-	10.9914	µg/mL	Unstressed
	Purity 99%				+/-	18.6432	µg/mL	Stressed
18	4-Methylphenol (p-cresol)		500.4	µg/mL	+/-	2.9161	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot 49396APV)			+/-	5.4823	µg/mL	Unstressed
	Purity 99%				+/-	9.2949	µg/mL	Stressed
19	3-Methylphenol (m-cresol)		500.2	µg/mL	+/-	2.9149	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot SHBD0627V)			+/-	5.4801	µg/mL	Unstressed
	Purity 99%				+/-	9.2912	µg/mL	Stressed
20	Nitrobenzene		1,001.1	µg/mL	+/-	5.8205	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot 65096APV)			+/-	10.9607	µg/mL	Unstressed
	Purity 99%				+/-	18.5912	µg/mL	Stressed
21	Isophorone		999.3	µg/mL	+/-	5.8100	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot 06705DE)			+/-	10.9410	µg/mL	Unstressed
	Purity 97%				+/-	18.5577	µg/mL	Stressed
22	2-Nitrophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCBH7602V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
23	2,4-Dimethylphenol		1,003.2	µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot 10165155)			+/-	10.9837	µg/mL	Unstressed
	Purity 99%				+/-	18.6302	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,004.5	µg/mL	+/-	5.8402	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 317200)			+/-	10.9980	µg/mL	Unstressed
	Purity 99%				+/-	18.6544	µg/mL	Stressed
25	2,4-Dichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
27	Naphthalene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
28	2,6-Dichlorophenol		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot MKBN2776V)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
29	4-Chloroaniline		1,000.3	µg/mL	+/-	5.8157	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9518	µg/mL	Unstressed
	Purity 98%				+/-	18.5761	µg/mL	Stressed
30	Hexachlorobutadiene		999.9	µg/mL	+/-	5.8135	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)			+/-	10.9475	µg/mL	Unstressed
	Purity 98%				+/-	18.5688	µg/mL	Stressed
31	2-Methylnaphthalene		998.6	µg/mL	+/-	5.8059	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	10.9333	µg/mL	Unstressed
	Purity 96%				+/-	18.5446	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 525000-10)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,002.4	µg/mL	+/-	5.8280	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 3140300)			+/-	10.9750	µg/mL	Unstressed
	Purity 99%				+/-	18.6154	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
38	2-Chloronaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
39	Biphenyl		1,006.1	µg/mL	+/-	5.8496	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	11.0155	µg/mL	Unstressed
	Purity 99%				+/-	18.6841	µg/mL	Stressed

40	2-Nitroaniline		1,004.6 µg/mL	+/-	5.8408	µg/mL	Gravimetric
	CAS # 88-74-4	(Lot MKBK7597V)		+/-	10.9991	µg/mL	Unstressed
	Purity 99%			+/-	18.6562	µg/mL	Stressed
41	Acenaphthylene		1,000.0 µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 208-96-8	(Lot ER030707-01)		+/-	10.9487	µg/mL	Unstressed
	Purity 99%			+/-	18.5708	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,006.4 µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)		+/-	11.0188	µg/mL	Unstressed
	Purity 99%			+/-	18.6896	µg/mL	Stressed
43	Dimethylphthalate		1,001.0 µg/mL	+/-	5.8199	µg/mL	Gravimetric
	CAS # 131-11-3	(Lot 10117699)		+/-	10.9596	µg/mL	Unstressed
	Purity 99%			+/-	18.5894	µg/mL	Stressed
44	2,6-Dimitrotoluene		1,001.6 µg/mL	+/-	5.8234	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)		+/-	10.9662	µg/mL	Unstressed
	Purity 99%			+/-	18.6005	µg/mL	Stressed
45	Acenaphthene		1,001.8 µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 83-32-9	(Lot MKBP0384V)		+/-	10.9684	µg/mL	Unstressed
	Purity 99%			+/-	18.6042	µg/mL	Stressed
46	2,4-Dinitrophenol		2,008.7 µg/mL	+/-	11.6788	µg/mL	Gravimetric
	CAS # 51-28-5	(Lot MKBP5833V)		+/-	21.9927	µg/mL	Unstressed
	Purity 99%			+/-	37.3031	µg/mL	Stressed
47	Dibenzofuran		1,001.8 µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 132-64-9	(Lot MKBK2375V)		+/-	10.9684	µg/mL	Unstressed
	Purity 99%			+/-	18.6042	µg/mL	Stressed
48	3-Nitroaniline		1,001.3 µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 99-09-2	(Lot MKBH5131V)		+/-	10.9629	µg/mL	Unstressed
	Purity 99%			+/-	18.5949	µg/mL	Stressed
49	2,4-Dinitrotoluene		1,001.7 µg/mL	+/-	5.8240	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)		+/-	10.9673	µg/mL	Unstressed
	Purity 99%			+/-	18.6024	µg/mL	Stressed
50	4-Nitrophenol		2,001.0 µg/mL	+/-	11.6340	µg/mL	Gravimetric
	CAS # 100-02-7	(Lot MKBK1842V)		+/-	21.9083	µg/mL	Unstressed
	Purity 99%			+/-	37.1601	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,002.1 µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 58-90-2	(Lot FN10221307)		+/-	10.9717	µg/mL	Unstressed
	Purity 99%			+/-	18.6098	µg/mL	Stressed
52	Fluorene		1,000.5 µg/mL	+/-	5.8169	µg/mL	Gravimetric
	CAS # 86-73-7	(Lot 10174662)		+/-	10.9540	µg/mL	Unstressed
	Purity 98%			+/-	18.5797	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether		1,000.4 µg/mL	+/-	5.8164	µg/mL	Gravimetric
	CAS # 7005-72-3	(Lot MKBL1347V)		+/-	10.9531	µg/mL	Unstressed
	Purity 99%			+/-	18.5782	µg/mL	Stressed
54	n-Hexadecane (C16)		1,002.2 µg/mL	+/-	5.8269	µg/mL	Gravimetric
	CAS # 544-76-3	(Lot SHBD4570V)		+/-	10.9728	µg/mL	Unstressed
	Purity 99%			+/-	18.6116	µg/mL	Stressed
55	Diethylphthalate		1,001.1 µg/mL	+/-	5.8205	µg/mL	Gravimetric
	CAS # 84-66-2	(Lot MKBJ3578V)		+/-	10.9607	µg/mL	Unstressed
	Purity 99%			+/-	18.5912	µg/mL	Stressed

56	Azobenzene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
57	Diphenylamine		1,713.4	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)			+/-	18.7595	µg/mL	Unstressed
	Purity 99%				+/-	31.8192	µg/mL	Stressed
58	4-Nitroaniline		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9193	µg/mL	Unstressed
	Purity 99%				+/-	37.1787	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
61	Hexachlorobenzene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
62	Pentachlorophenol		2,000.3	µg/mL	+/-	11.6299	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 140626JLM)			+/-	21.9007	µg/mL	Unstressed
	Purity 99%				+/-	37.1471	µg/mL	Stressed
63	Phenanthrene		999.0	µg/mL	+/-	5.8083	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBL6906V)			+/-	10.9379	µg/mL	Unstressed
	Purity 98%				+/-	18.5524	µg/mL	Stressed
64	n-Octadecane (C18)		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
65	Anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
66	Carbazole		1,000.1	µg/mL	+/-	5.8146	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9497	µg/mL	Unstressed
	Purity 98%				+/-	18.5725	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
68	Fluoranthene		999.7	µg/mL	+/-	5.8123	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9454	µg/mL	Unstressed
	Purity 98%				+/-	18.5652	µg/mL	Stressed
69	Pyrene		999.1	µg/mL	+/-	5.8089	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9390	µg/mL	Unstressed
	Purity 98%				+/-	18.5543	µg/mL	Stressed
70	Benzyl butyl phthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
71	Benz(a)anthracene		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed

72	Chrysene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot ER120810-02)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBK2695V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
74	Di-n-octyl phthalate		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 3128600)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot ER03101401)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,003.3	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot ER041513-01)			+/-	10.9848	µg/mL	Unstressed
	Purity 99%				+/-	18.6321	µg/mL	Stressed
77	Benzo(a)pyrene		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot ER071309-02)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot ER082107-02)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,004.4	µg/mL	+/-	5.8397	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	10.9969	µg/mL	Unstressed
	Purity 99%				+/-	18.6525	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot ER020708-08)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

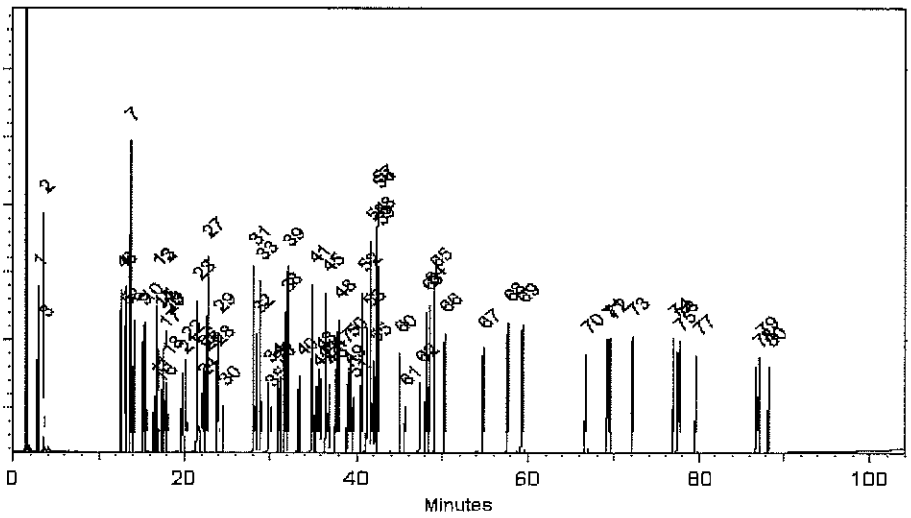
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 24-Nov-2014 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 05-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 S1_00004

SMList 1 SI_00004

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567672 **Lot No.:** A0101615

Description : 8270 List 1 / Std #1 MegaMix

8270 List 1 / Std #1 MegaMix 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2015 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane		1,006.4 µg/mL	+/- 5.8510	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBD4119V)		+/- 11.0182	µg/mL	Unstressed
	Purity 99%			+/- 18.6887	µg/mL	Stressed
2	Pyridine		1,001.7 µg/mL	+/- 5.8237	µg/mL	Gravimetric
	CAS # 110-86-1	(Lot 02718MW)		+/- 10.9668	µg/mL	Unstressed
	Purity 99%			+/- 18.6014	µg/mL	Stressed
3	N-Nitrosodimethylamine		1,001.4 µg/mL	+/- 5.8222	µg/mL	Gravimetric
	CAS # 62-75-9	(Lot 2179300)		+/- 10.9640	µg/mL	Unstressed
	Purity 99%			+/- 18.5968	µg/mL	Stressed
4	Aniline		1,009.3 µg/mL	+/- 5.8682	µg/mL	Gravimetric
	CAS # 62-53-3	(Lot 68396APV)		+/- 11.0505	µg/mL	Unstressed
	Purity 99%			+/- 18.7435	µg/mL	Stressed
5	Phenol		1,009.5 µg/mL	+/- 5.8690	µg/mL	Gravimetric
	CAS # 108-95-2	(Lot SHBC6998V)		+/- 11.0522	µg/mL	Unstressed
	Purity 99%			+/- 18.7463	µg/mL	Stressed
6	Bis(2-chloroethyl)ether		1,005.2 µg/mL	+/- 5.8440	µg/mL	Gravimetric
	CAS # 111-44-4	(Lot 45296HKV)		+/- 11.0051	µg/mL	Unstressed
	Purity 99%			+/- 18.6664	µg/mL	Stressed
7	2-Chlorophenol		1,006.4 µg/mL	+/- 5.8510	µg/mL	Gravimetric
	CAS # 95-57-8	(Lot MKBD3900V)		+/- 11.0182	µg/mL	Unstressed
	Purity 99%			+/- 18.6887	µg/mL	Stressed
8	1,3-Dichlorobenzene		1,009.2 µg/mL	+/- 5.8673	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBC1891V)		+/- 11.0489	µg/mL	Unstressed
	Purity 99%			+/- 18.7407	µg/mL	Stressed

9	1,4-Dichlorobenzene		1,003.8 µg/mL	+/- 5.8359	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBL3891V)		+/- 10.9898	µg/mL	Unstressed
	Purity 99%			+/- 18.6404	µg/mL	Stressed
10	1,2-Dichlorobenzene		1,001.3 µg/mL	+/- 5.8214	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot 68996CMV)		+/- 10.9624	µg/mL	Unstressed
	Purity 99%			+/- 18.5940	µg/mL	Stressed
11	Benzyl alcohol		1,006.0 µg/mL	+/- 5.8490	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBC1850V)		+/- 11.0144	µg/mL	Unstressed
	Purity 99%			+/- 18.6822	µg/mL	Stressed
12	2,2'-oxybis(1-chloropropane)		998.6 µg/mL	+/- 5.8060	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 22-GHZ-160-1)		+/- 10.9335	µg/mL	Unstressed
	Purity 97%			+/- 18.5451	µg/mL	Stressed
13	2-Methylphenol (o-cresol)		1,002.3 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBC1479V)		+/- 10.9739	µg/mL	Unstressed
	Purity 99%			+/- 18.6135	µg/mL	Stressed
14	Acetophenone		1,003.2 µg/mL	+/- 5.8324	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot MKBH7920V)		+/- 10.9832	µg/mL	Unstressed
	Purity 99%			+/- 18.6293	µg/mL	Stressed
15	Hexachloroethane		1,008.3 µg/mL	+/- 5.8621	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot 4H3SF)		+/- 11.0390	µg/mL	Unstressed
	Purity 99%			+/- 18.7240	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine		1,003.7 µg/mL	+/- 5.8356	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot OPAGF)		+/- 10.9892	µg/mL	Unstressed
	Purity 99%			+/- 18.6395	µg/mL	Stressed
17	4-Methylphenol (p-cresol)		501.5 µg/mL	+/- 2.9155	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot 49396APV)		+/- 5.4902	µg/mL	Unstressed
	Purity 99%			+/- 9.3123	µg/mL	Stressed
18	3-Methylphenol (m-cresol)		500.0 µg/mL	+/- 2.9070	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot SHBD0627V)		+/- 5.4743	µg/mL	Unstressed
	Purity 99%			+/- 9.2854	µg/mL	Stressed
19	n-Decane (C10)		1,007.6 µg/mL	+/- 5.8583	µg/mL	Gravimetric
	CAS # 124-18-5	(Lot SHBC4624V)		+/- 11.0319	µg/mL	Unstressed
	Purity 99%			+/- 18.7119	µg/mL	Stressed
20	n-Octadecane (C18)		1,004.5 µg/mL	+/- 5.8402	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)		+/- 10.9980	µg/mL	Unstressed
	Purity 99%			+/- 18.6544	µg/mL	Stressed
21	Nitrobenzene		1,000.7 µg/mL	+/- 5.8179	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBB0245V)		+/- 10.9558	µg/mL	Unstressed
	Purity 99%			+/- 18.5829	µg/mL	Stressed
22	Isophorone		1,000.1 µg/mL	+/- 5.8148	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot 06705DE)		+/- 10.9500	µg/mL	Unstressed
	Purity 97%			+/- 18.5730	µg/mL	Stressed
23	2-Nitrophenol		1,005.1 µg/mL	+/- 5.8437	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCBH7602V)		+/- 11.0045	µg/mL	Unstressed
	Purity 99%			+/- 18.6655	µg/mL	Stressed
24	2,4-Dimethylphenol		1,002.1 µg/mL	+/- 5.8260	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot 10165155)		+/- 10.9711	µg/mL	Unstressed
	Purity 99%			+/- 18.6089	µg/mL	Stressed

25	Bis(2-chloroethoxy)methane		1,006.3	µg/mL	+/-	5.8507	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 2238100)			+/-	11.0177	µg/mL	Unstressed
	Purity 99%				+/-	18.6878	µg/mL	Stressed
26	2,4-Dichlorophenol		1,009.7	µg/mL	+/-	5.8705	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	11.0549	µg/mL	Unstressed
	Purity 99%				+/-	18.7509	µg/mL	Stressed
27	1,2,4-Trichlorobenzene		1,000.7	µg/mL	+/-	5.8179	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5829	µg/mL	Stressed
28	Naphthalene		1,001.0	µg/mL	+/-	5.8196	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9591	µg/mL	Unstressed
	Purity 99%				+/-	18.5884	µg/mL	Stressed
29	4-Chloroaniline		999.5	µg/mL	+/-	5.8112	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9432	µg/mL	Unstressed
	Purity 98%				+/-	18.5615	µg/mL	Stressed
30	Hexachlorobutadiene		1,001.9	µg/mL	+/-	5.8249	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)			+/-	10.9690	µg/mL	Unstressed
	Purity 98%				+/-	18.6052	µg/mL	Stressed
31	2-Methylnaphthalene		1,006.1	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	11.0158	µg/mL	Unstressed
	Purity 96%				+/-	18.6846	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,004.2	µg/mL	+/-	5.8382	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9941	µg/mL	Unstressed
	Purity 99%				+/-	18.6479	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.6	µg/mL	+/-	5.8173	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 5250.00-10)			+/-	10.9547	µg/mL	Unstressed
	Purity 99%				+/-	18.5810	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,009.5	µg/mL	+/-	5.8690	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 2220500)			+/-	11.0522	µg/mL	Unstressed
	Purity 99%				+/-	18.7463	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,003.6	µg/mL	+/-	5.8350	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)			+/-	10.9881	µg/mL	Unstressed
	Purity 99%				+/-	18.6376	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,008.9	µg/mL	+/-	5.8658	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	11.0461	µg/mL	Unstressed
	Purity 99%				+/-	18.7361	µg/mL	Stressed
38	2-Chloronaphthalene		1,004.8	µg/mL	+/-	5.8417	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	11.0007	µg/mL	Unstressed
	Purity 99%				+/-	18.6590	µg/mL	Stressed
39	Biphenyl		1,005.6	µg/mL	+/-	5.8464	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	11.0095	µg/mL	Unstressed
	Purity 99%				+/-	18.6739	µg/mL	Stressed
40	2-Nitroaniline		1,007.1	µg/mL	+/-	5.8551	µg/mL	Gravimetric
	CAS # 88-74-4	(Lot MKBF9132V)			+/-	11.0259	µg/mL	Unstressed
	Purity 99%				+/-	18.7017	µg/mL	Stressed

41	Acenaphthylene		1,005.6	µg/mL	+/-	5.8466	µg/mL	Gravimetric
	CAS # 208-96-8	(Lot ER030707-01)			+/-	11.0100	µg/mL	Unstressed
	Purity 99%				+/-	18.6748	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,006.2	µg/mL	+/-	5.8498	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)			+/-	11.0160	µg/mL	Unstressed
	Purity 99%				+/-	18.6850	µg/mL	Stressed
43	Dimethylphthalate		1,004.0	µg/mL	+/-	5.8371	µg/mL	Gravimetric
	CAS # 131-11-3	(Lot 10117699)			+/-	10.9919	µg/mL	Unstressed
	Purity 99%				+/-	18.6441	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,003.3	µg/mL	+/-	5.8330	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6311	µg/mL	Stressed
45	Acenaphthene		1,003.7	µg/mL	+/-	5.8353	µg/mL	Gravimetric
	CAS # 83-32-9	(Lot MKBJ4871V)			+/-	10.9887	µg/mL	Unstressed
	Purity 99%				+/-	18.6386	µg/mL	Stressed
46	3-Nitroaniline		1,004.4	µg/mL	+/-	5.8396	µg/mL	Gravimetric
	CAS # 99-09-2	(Lot MKBH5131V)			+/-	10.9967	µg/mL	Unstressed
	Purity 97%				+/-	18.6522	µg/mL	Stressed
47	2,4-Dinitrophenol		2,009.3	µg/mL	+/-	11.6820	µg/mL	Gravimetric
	CAS # 51-28-5	(Lot MKBP5833V)			+/-	21.9987	µg/mL	Unstressed
	Purity 99%				+/-	37.3133	µg/mL	Stressed
48	Dibenzofuran		1,008.5	µg/mL	+/-	5.8635	µg/mL	Gravimetric
	CAS # 132-64-9	(Lot MKBK2375V)			+/-	11.0418	µg/mL	Unstressed
	Purity 99%				+/-	18.7286	µg/mL	Stressed
49	2,4-Dinitrotoluene		1,004.8	µg/mL	+/-	5.8417	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)			+/-	11.0007	µg/mL	Unstressed
	Purity 99%				+/-	18.6590	µg/mL	Stressed
50	4-Nitrophenol		2,000.6	µg/mL	+/-	11.6317	µg/mL	Gravimetric
	CAS # 100-02-7	(Lot MKBK1842V)			+/-	21.9040	µg/mL	Unstressed
	Purity 99%				+/-	37.1527	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 58-90-2	(Lot ER100206-01)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
52	Fluorene		1,000.4	µg/mL	+/-	5.8161	µg/mL	Gravimetric
	CAS # 86-73-7	(Lot BCBF8646V)			+/-	10.9525	µg/mL	Unstressed
	Purity 99%				+/-	18.5773	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether		1,001.3	µg/mL	+/-	5.8214	µg/mL	Gravimetric
	CAS # 7005-72-3	(Lot MKBM4925V)			+/-	10.9624	µg/mL	Unstressed
	Purity 99%				+/-	18.5940	µg/mL	Stressed
54	Diethylphthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 84-66-2	(Lot MKBJ3578V)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
55	4-Nitroaniline		1,006.9	µg/mL	+/-	5.8539	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	11.0237	µg/mL	Unstressed
	Purity 99%				+/-	18.6980	µg/mL	Stressed
56	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,003.0	µg/mL	+/-	11.6456	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC02329V)			+/-	21.9302	µg/mL	Unstressed
	Purity 99%				+/-	37.1973	µg/mL	Stressed

57	Azobenzene		1,006.5	µg/mL	+/-	5.8516	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot 130305JLM)			+/-	11.0193	µg/mL	Unstressed
	Purity 99%				+/-	18.6906	µg/mL	Stressed
58	4-Bromophenyl phenyl ether		1,003.7	µg/mL	+/-	5.8353	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9887	µg/mL	Unstressed
	Purity 99%				+/-	18.6386	µg/mL	Stressed
59	Hexachlorobenzene		1,008.0	µg/mL	+/-	5.8606	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LB93343V)			+/-	11.0363	µg/mL	Unstressed
	Purity 99%				+/-	18.7193	µg/mL	Stressed
60	Pentachlorophenol		2,006.3	µg/mL	+/-	11.6648	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 130826JLM)			+/-	21.9664	µg/mL	Unstressed
	Purity 99%				+/-	37.2586	µg/mL	Stressed
61	Phenanthrene		1,004.4	µg/mL	+/-	5.8394	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBJ4205V)			+/-	10.9963	µg/mL	Unstressed
	Purity 99%				+/-	18.6516	µg/mL	Stressed
62	Anthracene		1,007.3	µg/mL	+/-	5.8565	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	11.0286	µg/mL	Unstressed
	Purity 99%				+/-	18.7064	µg/mL	Stressed
63	n-Hexadecane (C16)		1,001.9	µg/mL	+/-	5.8248	µg/mL	Gravimetric
	CAS # 544-76-3	(Lot SHBC3991V)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.6051	µg/mL	Stressed
64	Carbazole		1,001.8	µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9685	µg/mL	Unstressed
	Purity 98%				+/-	18.6043	µg/mL	Stressed
65	Di-n-butylphthalate		1,002.5	µg/mL	+/-	5.8286	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBG1851V)			+/-	10.9761	µg/mL	Unstressed
	Purity 99%				+/-	18.6172	µg/mL	Stressed
66	Fluoranthene		1,009.4	µg/mL	+/-	5.8685	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot 00828AJ)			+/-	11.0511	µg/mL	Unstressed
	Purity 98%				+/-	18.7444	µg/mL	Stressed
67	Pyrene		1,004.0	µg/mL	+/-	5.8371	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9921	µg/mL	Unstressed
	Purity 98%				+/-	18.6443	µg/mL	Stressed
68	Benzyl butyl phthalate		1,005.4	µg/mL	+/-	5.8452	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	11.0073	µg/mL	Unstressed
	Purity 99%				+/-	18.6701	µg/mL	Stressed
69	Benz(a)anthracene		1,006.4	µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	11.0188	µg/mL	Unstressed
	Purity 99%				+/-	18.6896	µg/mL	Stressed
70	Chrysene		1,003.2	µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot PR121912-01)			+/-	10.9837	µg/mL	Unstressed
	Purity 99%				+/-	18.6302	µg/mL	Stressed
71	Bis(2-ethylhexyl)phthalate		1,000.9	µg/mL	+/-	5.8190	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBH9511V)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5866	µg/mL	Stressed
72	Di-n-octyl phthalate		1,002.3	µg/mL	+/-	5.8272	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 1674300)			+/-	10.9733	µg/mL	Unstressed
	Purity 99%				+/-	18.6126	µg/mL	Stressed

73	Benzo(b)fluoranthene		999.5	µg/mL	+/-	5.8109	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot ER022008-02)			+/-	10.9427	µg/mL	Unstressed
	Purity 99%				+/-	18.5606	µg/mL	Stressed
74	Benzo(k)fluoranthene		1,003.9	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot ER061608-02)			+/-	10.9914	µg/mL	Unstressed
	Purity 99%				+/-	18.6432	µg/mL	Stressed
75	Benzo(a)pyrene		1,008.3	µg/mL	+/-	5.8621	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot ER071309-02)			+/-	11.0390	µg/mL	Unstressed
	Purity 99%				+/-	18.7240	µg/mL	Stressed
76	Indeno(1,2,3-cd)pyrene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot ER082107-02)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
77	Dibenz(a,h)anthracene		999.4	µg/mL	+/-	5.8103	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	10.9416	µg/mL	Unstressed
	Purity 99%				+/-	18.5587	µg/mL	Stressed
78	Benzo(g,h,i)perylene		1,001.7	µg/mL	+/-	5.8240	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot ER020708-08)			+/-	10.9673	µg/mL	Unstressed
	Purity 99%				+/-	18.6024	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

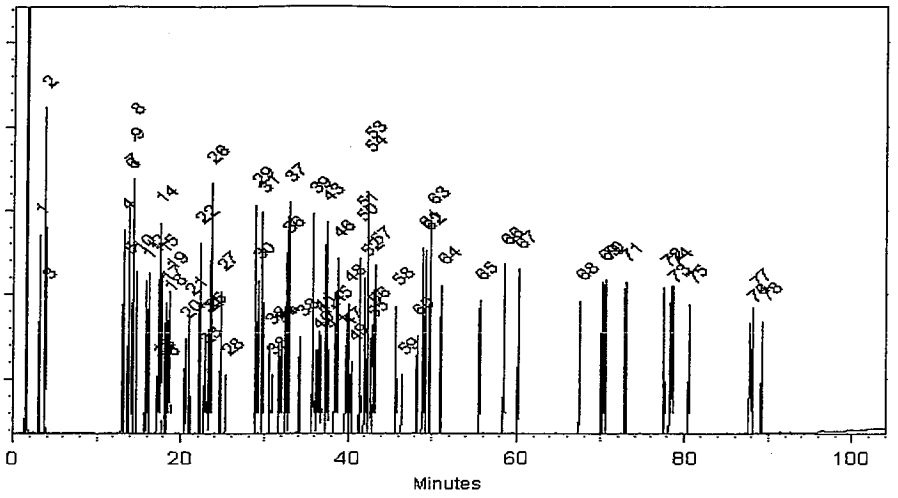
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sawver

Date Mixed: 26-Feb-2014 **Balance:** 1128360905

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 04-Mar-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 S1_00005

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569729 **Lot No.:** A0107399

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBD8744V)	1,004.4 µg/mL	+/- 5.8397 µg/mL +/- 10.9969 µg/mL +/- 18.6525 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot SHBC7174V)	1,001.0 µg/mL	+/- 5.8199 µg/mL +/- 10.9596 µg/mL +/- 18.5894 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 3213100)	1,000.2 µg/mL	+/- 5.8152 µg/mL +/- 10.9509 µg/mL +/- 18.5745 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot K22Z462)	1,002.3 µg/mL	+/- 5.8275 µg/mL +/- 10.9739 µg/mL +/- 18.6135 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot 45296HKV)	1,001.4 µg/mL	+/- 5.8222 µg/mL +/- 10.9640 µg/mL +/- 18.5968 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot MKBD3900V)	1,000.8 µg/mL	+/- 5.8187 µg/mL +/- 10.9575 µg/mL +/- 18.5856 µg/mL	Gravimetric Unstressed Stressed
7	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot SHBC6998V)	1,006.9 µg/mL	+/- 5.8542 µg/mL +/- 11.0242 µg/mL +/- 18.6989 µg/mL	Gravimetric Unstressed Stressed

8	n-Decane (C10)		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 124-18-5	(Lot SHBF1587V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
9	1,4-Dichlorobenzene		1,005.3	µg/mL	+/-	5.8449	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBL3891V)			+/-	11.0067	µg/mL	Unstressed
	Purity 99%				+/-	18.6692	µg/mL	Stressed
10	1,3-Dichlorobenzene		1,002.0	µg/mL	+/-	5.8257	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBC1891V)			+/-	10.9706	µg/mL	Unstressed
	Purity 99%				+/-	18.6079	µg/mL	Stressed
11	1,2-Dichlorobenzene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot 68996CMV)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
12	Benzyl alcohol		1,000.4	µg/mL	+/-	5.8164	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBC1850V)			+/-	10.9531	µg/mL	Unstressed
	Purity 99%				+/-	18.5782	µg/mL	Stressed
13	2,2'-oxybis(1-chloropropane)		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 2-EAW-18-3)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
14	2-Methylphenol (o-cresol)		1,003.6	µg/mL	+/-	5.8350	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBC1479V)			+/-	10.9881	µg/mL	Unstressed
	Purity 99%				+/-	18.6376	µg/mL	Stressed
15	Hexachloroethane		1,005.9	µg/mL	+/-	5.8484	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot 4H3SF)			+/-	11.0133	µg/mL	Unstressed
	Purity 99%				+/-	18.6804	µg/mL	Stressed
16	Acetophenone		1,002.7	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot MKBR7156V)			+/-	10.9783	µg/mL	Unstressed
	Purity 99%				+/-	18.6209	µg/mL	Stressed
17	N-Nitroso-di-n-propylamine		1,003.9	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot OPAGF)			+/-	10.9914	µg/mL	Unstressed
	Purity 99%				+/-	18.6432	µg/mL	Stressed
18	4-Methylphenol (p-cresol)		500.4	µg/mL	+/-	2.9161	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot 49396APV)			+/-	5.4823	µg/mL	Unstressed
	Purity 99%				+/-	9.2949	µg/mL	Stressed
19	3-Methylphenol (m-cresol)		500.2	µg/mL	+/-	2.9149	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot SHBD0627V)			+/-	5.4801	µg/mL	Unstressed
	Purity 99%				+/-	9.2912	µg/mL	Stressed
20	Nitrobenzene		1,001.1	µg/mL	+/-	5.8205	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot 65096APV)			+/-	10.9607	µg/mL	Unstressed
	Purity 99%				+/-	18.5912	µg/mL	Stressed
21	Isophorone		999.3	µg/mL	+/-	5.8100	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot 06705DE)			+/-	10.9410	µg/mL	Unstressed
	Purity 97%				+/-	18.5577	µg/mL	Stressed
22	2-Nitrophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCBH7602V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
23	2,4-Dimethylphenol		1,003.2	µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot 10165155)			+/-	10.9837	µg/mL	Unstressed
	Purity 99%				+/-	18.6302	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,004.5	µg/mL	+/-	5.8402	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 317200)			+/-	10.9980	µg/mL	Unstressed
	Purity 99%				+/-	18.6544	µg/mL	Stressed
25	2,4-Dichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
27	Naphthalene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
28	2,6-Dichlorophenol		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot MKBN2776V)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
29	4-Chloroaniline		1,000.3	µg/mL	+/-	5.8157	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9518	µg/mL	Unstressed
	Purity 98%				+/-	18.5761	µg/mL	Stressed
30	Hexachlorobutadiene		999.9	µg/mL	+/-	5.8135	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)			+/-	10.9475	µg/mL	Unstressed
	Purity 98%				+/-	18.5688	µg/mL	Stressed
31	2-Methylnaphthalene		998.6	µg/mL	+/-	5.8059	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	10.9333	µg/mL	Unstressed
	Purity 96%				+/-	18.5446	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 525000-10)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,002.4	µg/mL	+/-	5.8280	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 3140300)			+/-	10.9750	µg/mL	Unstressed
	Purity 99%				+/-	18.6154	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
38	2-Chloronaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
39	Biphenyl		1,006.1	µg/mL	+/-	5.8496	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	11.0155	µg/mL	Unstressed
	Purity 99%				+/-	18.6841	µg/mL	Stressed

40	2-Nitroaniline		1,004.6	µg/mL	+/-	5.8408	µg/mL	Gravimetric
	CAS # 88-74-4	(Lot MKBK7597V)			+/-	10.9991	µg/mL	Unstressed
	Purity 99%				+/-	18.6562	µg/mL	Stressed
41	Acenaphthylene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 208-96-8	(Lot ER030707-01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,006.4	µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)			+/-	11.0188	µg/mL	Unstressed
	Purity 99%				+/-	18.6896	µg/mL	Stressed
43	Dimethylphthalate		1,001.0	µg/mL	+/-	5.8199	µg/mL	Gravimetric
	CAS # 131-11-3	(Lot 10117699)			+/-	10.9596	µg/mL	Unstressed
	Purity 99%				+/-	18.5894	µg/mL	Stressed
44	2,6-Dimitrotoluene		1,001.6	µg/mL	+/-	5.8234	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)			+/-	10.9662	µg/mL	Unstressed
	Purity 99%				+/-	18.6005	µg/mL	Stressed
45	Acenaphthene		1,001.8	µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 83-32-9	(Lot MKBP0384V)			+/-	10.9684	µg/mL	Unstressed
	Purity 99%				+/-	18.6042	µg/mL	Stressed
46	2,4-Dinitrophenol		2,008.7	µg/mL	+/-	11.6788	µg/mL	Gravimetric
	CAS # 51-28-5	(Lot MKBP5833V)			+/-	21.9927	µg/mL	Unstressed
	Purity 99%				+/-	37.3031	µg/mL	Stressed
47	Dibenzofuran		1,001.8	µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 132-64-9	(Lot MKBK2375V)			+/-	10.9684	µg/mL	Unstressed
	Purity 99%				+/-	18.6042	µg/mL	Stressed
48	3-Nitroaniline		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 99-09-2	(Lot MKBH5131V)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
49	2,4-Dinitrotoluene		1,001.7	µg/mL	+/-	5.8240	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)			+/-	10.9673	µg/mL	Unstressed
	Purity 99%				+/-	18.6024	µg/mL	Stressed
50	4-Nitrophenol		2,001.0	µg/mL	+/-	11.6340	µg/mL	Gravimetric
	CAS # 100-02-7	(Lot MKBK1842V)			+/-	21.9083	µg/mL	Unstressed
	Purity 99%				+/-	37.1601	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 58-90-2	(Lot FN10221307)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
52	Fluorene		1,000.5	µg/mL	+/-	5.8169	µg/mL	Gravimetric
	CAS # 86-73-7	(Lot 10174662)			+/-	10.9540	µg/mL	Unstressed
	Purity 98%				+/-	18.5797	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether		1,000.4	µg/mL	+/-	5.8164	µg/mL	Gravimetric
	CAS # 7005-72-3	(Lot MKBL1347V)			+/-	10.9531	µg/mL	Unstressed
	Purity 99%				+/-	18.5782	µg/mL	Stressed
54	n-Hexadecane (C16)		1,002.2	µg/mL	+/-	5.8269	µg/mL	Gravimetric
	CAS # 544-76-3	(Lot SHBD4570V)			+/-	10.9728	µg/mL	Unstressed
	Purity 99%				+/-	18.6116	µg/mL	Stressed
55	Diethylphthalate		1,001.1	µg/mL	+/-	5.8205	µg/mL	Gravimetric
	CAS # 84-66-2	(Lot MKBJ3578V)			+/-	10.9607	µg/mL	Unstressed
	Purity 99%				+/-	18.5912	µg/mL	Stressed

56	Azobenzene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
57	Diphenylamine		1,713.4	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)			+/-	18.7595	µg/mL	Unstressed
	Purity 99%				+/-	31.8192	µg/mL	Stressed
58	4-Nitroaniline		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9193	µg/mL	Unstressed
	Purity 99%				+/-	37.1787	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
61	Hexachlorobenzene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
62	Pentachlorophenol		2,000.3	µg/mL	+/-	11.6299	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 140626JLM)			+/-	21.9007	µg/mL	Unstressed
	Purity 99%				+/-	37.1471	µg/mL	Stressed
63	Phenanthrene		999.0	µg/mL	+/-	5.8083	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBL6906V)			+/-	10.9379	µg/mL	Unstressed
	Purity 98%				+/-	18.5524	µg/mL	Stressed
64	n-Octadecane (C18)		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
65	Anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
66	Carbazole		1,000.1	µg/mL	+/-	5.8146	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9497	µg/mL	Unstressed
	Purity 98%				+/-	18.5725	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
68	Fluoranthene		999.7	µg/mL	+/-	5.8123	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9454	µg/mL	Unstressed
	Purity 98%				+/-	18.5652	µg/mL	Stressed
69	Pyrene		999.1	µg/mL	+/-	5.8089	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9390	µg/mL	Unstressed
	Purity 98%				+/-	18.5543	µg/mL	Stressed
70	Benzyl butyl phthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
71	Benz(a)anthracene		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed

72	Chrysene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot ER120810-02)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBK2695V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
74	Di-n-octyl phthalate		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 3128600)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot ER03101401)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,003.3	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot ER041513-01)			+/-	10.9848	µg/mL	Unstressed
	Purity 99%				+/-	18.6321	µg/mL	Stressed
77	Benzo(a)pyrene		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot ER071309-02)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot ER082107-02)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,004.4	µg/mL	+/-	5.8397	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	10.9969	µg/mL	Unstressed
	Purity 99%				+/-	18.6525	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot ER020708-08)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

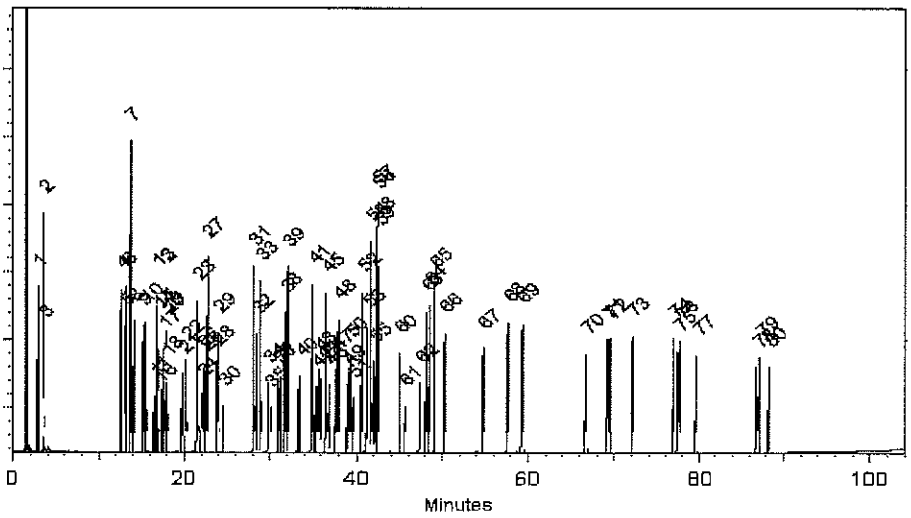
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 24-Nov-2014 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 05-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731 **Lot No.:** A0107943

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Indene		2,001.4	µg/mL	+/- 11.6363	µg/mL	Gravimetric
	CAS # 95-13-6	(Lot MKBP3098V)			+/- 22.5687	µg/mL	Unstressed
	Purity 99%				+/- 25.9700	µg/mL	Stressed
2	Benzoic acid		2,005.8	µg/mL	+/- 11.6619	µg/mL	Gravimetric
	CAS # 65-85-0	(Lot MKBL6689V)			+/- 22.6183	µg/mL	Unstressed
	Purity 99%				+/- 26.0271	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

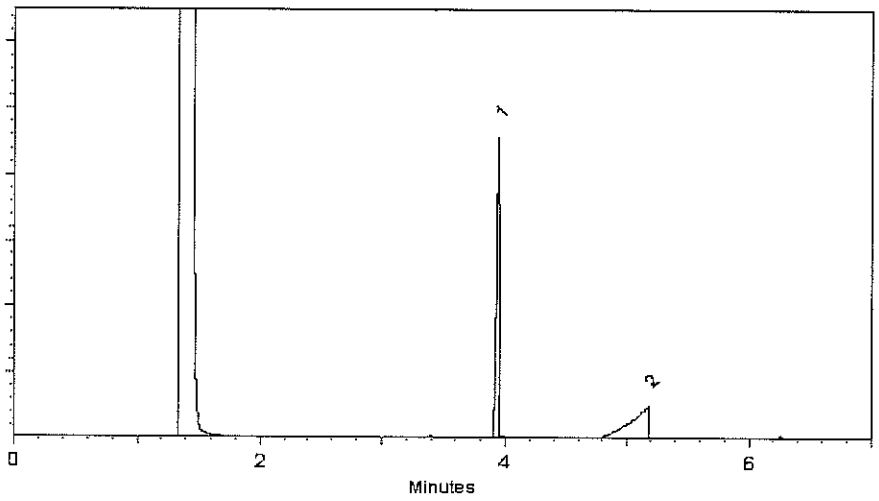
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 22-Dec-2014 **Balance:** 1128360905

Tyler Brown - QA Analyst

Date Passed: 29-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569732 **Lot No.:** A0108035

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzaldehyde **CAS #** 100-52-7 (Lot SHBD3510V) **Purity** 99%	2,000.6 µg/mL	+/- 11.6317 µg/mL +/- 64.1305 µg/mL +/- 74.5493 µg/mL	Gravimetric Unstressed Stressed
2	epsilon-Caprolactam **CAS #** 105-60-2 (Lot I16X016) **Purity** 99%	2,001.2 µg/mL	+/- 11.6351 µg/mL +/- 64.1498 µg/mL +/- 74.5716 µg/mL	Gravimetric Unstressed Stressed
3	Atrazine **CAS #** 1912-24-9 (Lot TZ8ED) **Purity** 98%	2,004.3 µg/mL	+/- 11.6532 µg/mL +/- 64.2490 µg/mL +/- 74.6870 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

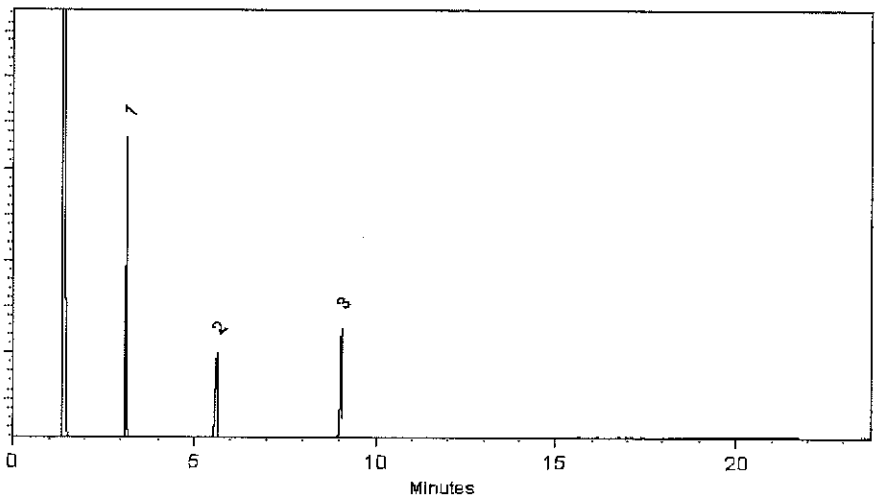
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 30-Dec-2014 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 02-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567673 **Lot No.:** A0100824

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2015 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	epsilon-Caprolactam **CAS #** 105-60-2 (Lot 10000218) **Purity** 99%	2,004.8 µg/mL	+/- 11.7653 µg/mL +/- 22.0081 µg/mL +/- 37.2650 µg/mL	Gravimetric Unstressed Stressed
2	Atrazine **CAS #** 1912-24-9 (Lot TZ8ED) **Purity** 98%	2,000.4 µg/mL	+/- 11.7393 µg/mL +/- 21.9596 µg/mL +/- 37.1828 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 140107JLM) **Purity** 99%	2,010.4 µg/mL	+/- 11.7982 µg/mL +/- 22.0696 µg/mL +/- 37.3691 µg/mL	Gravimetric Unstressed Stressed
4	3,3'-Dichlorobenzidine **CAS #** 91-94-1 (Lot 140109JLM) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 21.9554 µg/mL +/- 37.1758 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

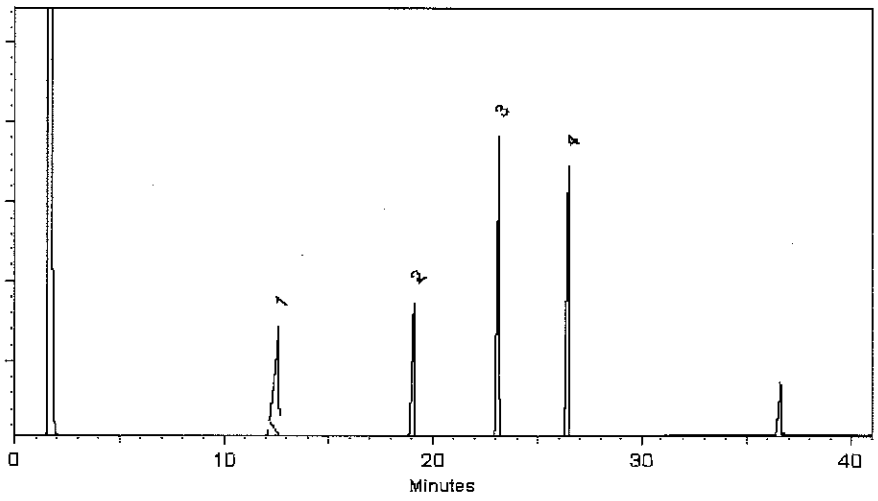
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sawyer

Date Mixed: 22-Jan-2014 **Balance:** 1128360905

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 26-Jan-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568725 **Lot No.:** A0101573

Description : 8270 List 1/ Std #7 Diphenylamine

8270 List 1/ Std #7 Diphenylamine 1,710 µg/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diphenylamine	1,706.8 µg/mL	+/- 10.0165	µg/mL	Gravimetric
	CAS # 122-39-4 (Lot 07525MF)		+/- 18.7368	µg/mL	Unstressed
	Purity 99%		+/- 31.7258	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.

Tech Tips:

N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

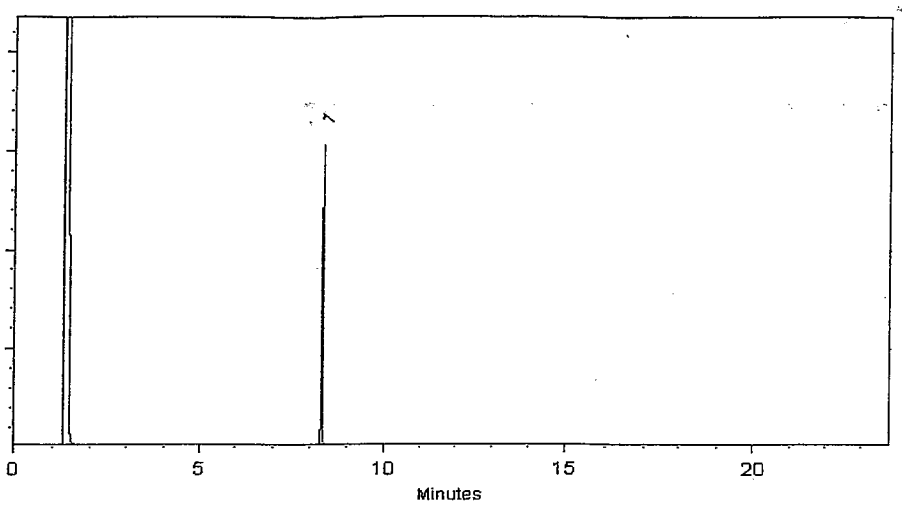
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sauver

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Mixed: 25-Feb-2014 **Balance:** 1128360905

Date Passed: 27-Feb-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568724 **Lot No.:** A0105548

Description : 8270 List 1/ Std #8

8270 List 1/ Std #8 2,000 µg/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde		2,008.0 µg/mL	+/- 11.7841	µg/mL	Gravimetric
	CAS # 100-52-7	(Lot SHBC6366V)		+/- 64.3877	µg/mL	Unstressed
	Purity 99%			+/- 74.8422	µg/mL	Stressed
2	Indene		2,004.0 µg/mL	+/- 11.7606	µg/mL	Gravimetric
	CAS # 95-13-6	(Lot MKBH4027V)		+/- 64.2594	µg/mL	Unstressed
	Purity 99%			+/- 74.6931	µg/mL	Stressed
3	Benzoic acid		2,013.0 µg/mL	+/- 11.8134	µg/mL	Gravimetric
	CAS # 65-85-0	(Lot MKBL6689V)		+/- 64.5480	µg/mL	Unstressed
	Purity 99%			+/- 75.0285	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

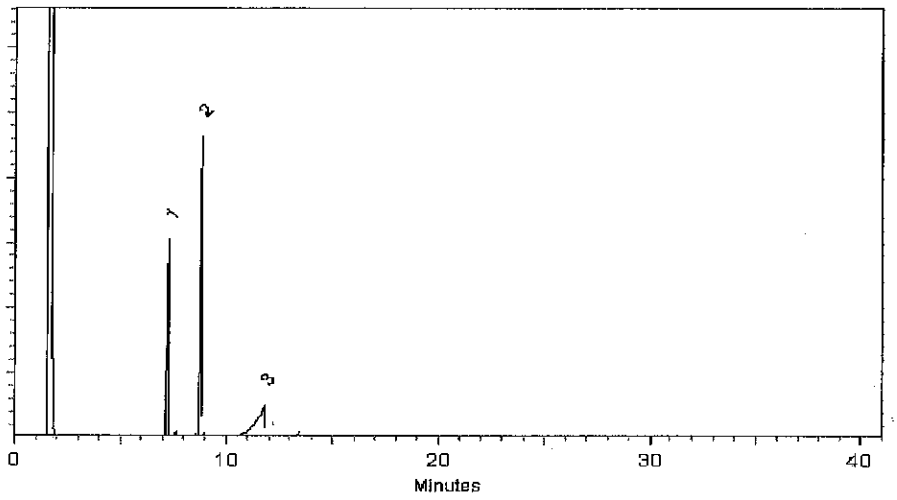
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 22-Aug-2014 **Balance:** 1128342313

Jennifer L. Pollino - QC Analyst

Date Passed: 26-Aug-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730 **Lot No.:** A0108174

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2016 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine	2,008.4 µg/mL	+/- 11.6770	µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 141208JLM)		+/- 21.9894	µg/mL	Unstressed
	Purity 99%		+/- 37.2976	µg/mL	Stressed
2	3,3'-Dichlorobenzidine	2,003.0 µg/mL	+/- 11.6456	µg/mL	Gravimetric
	CAS # 91-94-1 (Lot 141205JLM)		+/- 21.9302	µg/mL	Unstressed
	Purity 99%		+/- 37.1973	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

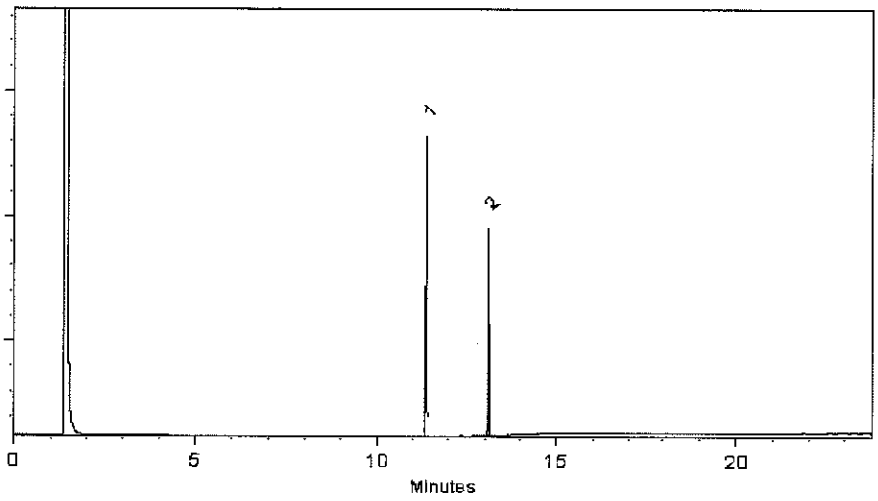
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sauver

Jennifer L. Pollino - QC Analyst

Date Mixed: 07-Jan-2015 **Balance:** 1122030677

Date Passed: 13-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569729.SEC **Lot No.:** A0107697

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	1,005.6 µg/mL	+/- 5.8602	µg/mL	Gravimetric
	CAS # 123-91-1.SEC (Lot CHA4A)		+/- 11.0172	µg/mL	Unstressed
	Purity 99%		+/- 18.6790	µg/mL	Stressed
2	Pyridine	1,000.2 µg/mL	+/- 5.8287	µg/mL	Gravimetric
	CAS # 110-86-1.SEC (Lot QN8DK)		+/- 10.9580	µg/mL	Unstressed
	Purity 99%		+/- 18.5787	µg/mL	Stressed
3	N-Nitrosodimethylamine	1,004.1 µg/mL	+/- 5.8515	µg/mL	Gravimetric
	CAS # 62-75-9.SEC (Lot 41B67)		+/- 11.0008	µg/mL	Unstressed
	Purity 98%		+/- 18.6513	µg/mL	Stressed
4	Aniline	1,002.8 µg/mL	+/- 5.8438	µg/mL	Gravimetric
	CAS # 62-53-3.SEC (Lot ZCD3N)		+/- 10.9865	µg/mL	Unstressed
	Purity 99%		+/- 18.6270	µg/mL	Stressed
5	Bis(2-chloroethyl)ether	1,002.4 µg/mL	+/- 5.8415	µg/mL	Gravimetric
	CAS # 111-44-4.SEC (Lot FA010143)		+/- 10.9821	µg/mL	Unstressed
	Purity 99%		+/- 18.6196	µg/mL	Stressed
6	2-Chlorophenol	1,006.0 µg/mL	+/- 5.8625	µg/mL	Gravimetric
	CAS # 95-57-8.SEC (Lot GJ01)		+/- 11.0216	µg/mL	Unstressed
	Purity 99%		+/- 18.6864	µg/mL	Stressed
7	Phenol	1,004.2 µg/mL	+/- 5.8520	µg/mL	Gravimetric
	CAS # 108-95-2.SEC (Lot EDPYN)		+/- 11.0019	µg/mL	Unstressed
	Purity 99%		+/- 18.6530	µg/mL	Stressed

8	n-Decane (C10)		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 124-18-5.SEC	(Lot UCVNN)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
9	1,4-Dichlorobenzene		1,005.2	µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	11.0128	µg/mL	Unstressed
	Purity 99%				+/-	18.6716	µg/mL	Stressed
10	1,3-Dichlorobenzene		1,004.2	µg/mL	+/-	5.8520	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD-KA)			+/-	11.0019	µg/mL	Unstressed
	Purity 99%				+/-	18.6530	µg/mL	Stressed
11	1,2-Dichlorobenzene		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot 4NRGF-OT)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
12	Benzyl alcohol		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 100-51-6.SEC	(Lot QZBUO)			+/-	11.0084	µg/mL	Unstressed
	Purity 99%				+/-	18.6642	µg/mL	Stressed
13	2,2'-oxybis(1-chloropropane)		1,002.2	µg/mL	+/-	5.8403	µg/mL	Gravimetric
	CAS # 108-60-1 *	(Lot 2-EAW-18-3)			+/-	10.9799	µg/mL	Unstressed
	Purity 99%				+/-	18.6159	µg/mL	Stressed
14	2-Methylphenol (o-cresol)		1,002.9	µg/mL	+/-	5.8446	µg/mL	Gravimetric
	CAS # 95-48-7.SEC	(Lot NC7HL)			+/-	10.9880	µg/mL	Unstressed
	Purity 98%				+/-	18.6295	µg/mL	Stressed
15	Hexachloroethane		1,005.1	µg/mL	+/-	5.8572	µg/mL	Gravimetric
	CAS # 67-72-1.SEC	(Lot 10173016)			+/-	11.0116	µg/mL	Unstressed
	Purity 98%				+/-	18.6695	µg/mL	Stressed
16	Acetophenone		1,004.4	µg/mL	+/-	5.8532	µg/mL	Gravimetric
	CAS # 98-86-2.SEC	(Lot NSGTI)			+/-	11.0040	µg/mL	Unstressed
	Purity 99%				+/-	18.6567	µg/mL	Stressed
17	N-Nitroso-di-n-propylamine		1,001.2	µg/mL	+/-	5.8345	µg/mL	Gravimetric
	CAS # 621-64-7.SEC	(Lot 1528900)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.5973	µg/mL	Stressed
18	4-Methylphenol (p-cresol)		500.8	µg/mL	+/-	2.9184	µg/mL	Gravimetric
	CAS # 106-44-5.SEC	(Lot 65S2E)			+/-	5.4867	µg/mL	Unstressed
	Purity 99%				+/-	9.3024	µg/mL	Stressed
19	3-Methylphenol (m-cresol)		502.8	µg/mL	+/-	2.9301	µg/mL	Gravimetric
	CAS # 108-39-4.SEC	(Lot 6LHTM)			+/-	5.5086	µg/mL	Unstressed
	Purity 99%				+/-	9.3395	µg/mL	Stressed
20	Nitrobenzene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 98-95-3.SEC	(Lot FLYIG)			+/-	10.9668	µg/mL	Unstressed
	Purity 99%				+/-	18.5936	µg/mL	Stressed
21	Isophorone		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 78-59-1.SEC	(Lot XHGJI)			+/-	10.9909	µg/mL	Unstressed
	Purity 99%				+/-	18.6344	µg/mL	Stressed
22	2-Nitrophenol		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 88-75-5.SEC	(Lot GXJ7J)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
23	2,4-Dimethylphenol		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 105-67-9.SEC	(Lot MKBL3650V)			+/-	10.9756	µg/mL	Unstressed
	Purity 99%				+/-	18.6084	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,005.0	µg/mL	+/-	5.8567	µg/mL	Gravimetric
	CAS # 111-91-1 *	(Lot 317200)			+/-	11.0106	µg/mL	Unstressed
	Purity 99%				+/-	18.6679	µg/mL	Stressed
25	2,4-Dichlorophenol		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 120-83-2.SEC	(Lot FHM01)			+/-	10.9734	µg/mL	Unstressed
	Purity 99%				+/-	18.6047	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot OGO01)			+/-	10.9778	µg/mL	Unstressed
	Purity 99%				+/-	18.6121	µg/mL	Stressed
27	Naphthalene		1,006.4	µg/mL	+/-	5.8648	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	11.0260	µg/mL	Unstressed
	Purity 99%				+/-	18.6939	µg/mL	Stressed
28	2,6-Dichlorophenol		1,005.6	µg/mL	+/-	5.8602	µg/mL	Gravimetric
	CAS # 87-65-0.SEC	(Lot SIDBB)			+/-	11.0172	µg/mL	Unstressed
	Purity 99%				+/-	18.6790	µg/mL	Stressed
29	4-Chloroaniline		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 106-47-8.SEC	(Lot 10171860)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
30	Hexachlorobutadiene		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 2009400)			+/-	10.9821	µg/mL	Unstressed
	Purity 97%				+/-	18.6195	µg/mL	Stressed
31	2-Methylnaphthalene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	10.9668	µg/mL	Unstressed
	Purity 99%				+/-	18.5936	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,006.8	µg/mL	+/-	5.8671	µg/mL	Gravimetric
	CAS # 59-50-7.SEC	(Lot FDO02)			+/-	11.0303	µg/mL	Unstressed
	Purity 99%				+/-	18.7013	µg/mL	Stressed
33	1-Methylnaphthalene		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 90-12-0.SEC	(Lot UATSA)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 95-94-3.SEC	(Lot AF02)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6233	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 77-47-4.SEC	(Lot 0012013)			+/-	10.9997	µg/mL	Unstressed
	Purity 99%				+/-	18.6493	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,006.7	µg/mL	+/-	5.8663	µg/mL	Gravimetric
	CAS # 88-06-2.SEC	(Lot UUMYM)			+/-	11.0288	µg/mL	Unstressed
	Purity 98%				+/-	18.6986	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,002.8	µg/mL	+/-	5.8438	µg/mL	Gravimetric
	CAS # 95-95-4.SEC	(Lot MKBQ9937V)			+/-	10.9864	µg/mL	Unstressed
	Purity 97%				+/-	18.6267	µg/mL	Stressed
38	2-Chloronaphthalene		1,006.4	µg/mL	+/-	5.8648	µg/mL	Gravimetric
	CAS # 91-58-7.SEC	(Lot LC03928V)			+/-	11.0260	µg/mL	Unstressed
	Purity 99%				+/-	18.6939	µg/mL	Stressed
39	Biphenyl		1,005.8	µg/mL	+/-	5.8613	µg/mL	Gravimetric
	CAS # 92-52-4.SEC	(Lot 330QE)			+/-	11.0194	µg/mL	Unstressed
	Purity 99%				+/-	18.6827	µg/mL	Stressed

40	4-Nitroaniline		1,005.4 µg/mL	+/- 5.8590	µg/mL	Gravimetric
	CAS # 100-01-6.SEC	(Lot 5ITRC)		+/- 11.0150	µg/mL	Unstressed
	Purity 99%			+/- 18.6753	µg/mL	Stressed
41	Acenaphthylene		1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 208-96-8.SEC	(Lot 062013)		+/- 10.9558	µg/mL	Unstressed
	Purity 98%			+/- 18.5748	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,004.8 µg/mL	+/- 5.8555	µg/mL	Gravimetric
	CAS # 99-65-0.SEC	(Lot 3XXLB)		+/- 11.0084	µg/mL	Unstressed
	Purity 99%			+/- 18.6642	µg/mL	Stressed
43	Dimethylphthalate		1,000.6 µg/mL	+/- 5.8310	µg/mL	Gravimetric
	CAS # 131-11-3.SEC	(Lot 483WC)		+/- 10.9624	µg/mL	Unstressed
	Purity 99%			+/- 18.5861	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,006.8 µg/mL	+/- 5.8671	µg/mL	Gravimetric
	CAS # 606-20-2.SEC	(Lot GE01)		+/- 11.0303	µg/mL	Unstressed
	Purity 99%			+/- 18.7013	µg/mL	Stressed
45	Acenaphthene		1,001.8 µg/mL	+/- 5.8380	µg/mL	Gravimetric
	CAS # 83-32-9.SEC	(Lot BWZJE)		+/- 10.9756	µg/mL	Unstressed
	Purity 99%			+/- 18.6084	µg/mL	Stressed
46	2,4-Dinitrophenol		2,006.2 µg/mL	+/- 11.6642	µg/mL	Gravimetric
	CAS # 51-28-5.SEC	(Lot 2TXXH)		+/- 21.9653	µg/mL	Unstressed
	Purity 99%			+/- 37.2567	µg/mL	Stressed
47	Dibenzofuran		1,000.8 µg/mL	+/- 5.8322	µg/mL	Gravimetric
	CAS # 132-64-9.SEC	(Lot 27ZGC)		+/- 10.9646	µg/mL	Unstressed
	Purity 99%			+/- 18.5899	µg/mL	Stressed
48	3-Nitroaniline		1,002.6 µg/mL	+/- 5.8427	µg/mL	Gravimetric
	CAS # 99-09-2.SEC	(Lot FGN03)		+/- 10.9843	µg/mL	Unstressed
	Purity 99%			+/- 18.6233	µg/mL	Stressed
49	2,4-Dinitrotoluene		1,003.6 µg/mL	+/- 5.8485	µg/mL	Gravimetric
	CAS # 121-14-2.SEC	(Lot SHRSA)		+/- 10.9953	µg/mL	Unstressed
	Purity 99%			+/- 18.6419	µg/mL	Stressed
50	4-Nitrophenol		2,004.2 µg/mL	+/- 11.6526	µg/mL	Gravimetric
	CAS # 100-02-7.SEC	(Lot 2J5LB)		+/- 21.9434	µg/mL	Unstressed
	Purity 99%			+/- 37.2196	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,005.4 µg/mL	+/- 5.8590	µg/mL	Gravimetric
	CAS # 58-90-2.SEC	(Lot LB98980V)		+/- 11.0150	µg/mL	Unstressed
	Purity 99%			+/- 18.6753	µg/mL	Stressed
52	Fluorene		995.1 µg/mL	+/- 5.7989	µg/mL	Gravimetric
	CAS # 86-73-7.SEC	(Lot 1240200)		+/- 10.9021	µg/mL	Unstressed
	Purity 98%			+/- 18.4838	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether		1,005.4 µg/mL	+/- 5.8590	µg/mL	Gravimetric
	CAS # 7005-72-3.SEC	(Lot P31G)		+/- 11.0150	µg/mL	Unstressed
	Purity 99%			+/- 18.6753	µg/mL	Stressed
54	n-Hexadecane (C16)		1,005.4 µg/mL	+/- 5.8590	µg/mL	Gravimetric
	CAS # 544-76-3.SEC	(Lot A0328141)		+/- 11.0150	µg/mL	Unstressed
	Purity 99%			+/- 18.6753	µg/mL	Stressed
55	Diethylphthalate		1,000.2 µg/mL	+/- 5.8287	µg/mL	Gravimetric
	CAS # 84-66-2.SEC	(Lot UMBJC)		+/- 10.9580	µg/mL	Unstressed
	Purity 99%			+/- 18.5787	µg/mL	Stressed

56	Azobenzene		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 103-33-3.SEC	(Lot JUWAG)			+/-	10.9909	µg/mL	Unstressed
	Purity 99%				+/-	18.6344	µg/mL	Stressed
57	Diphenylamine		1,711.8	µg/mL	+/-	9.9756	µg/mL	Gravimetric
	CAS # 122-39-4.SEC	(Lot 10164691)			+/-	18.7542	µg/mL	Unstressed
	Purity 99%				+/-	31.7967	µg/mL	Stressed
58	2-Nitroaniline		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 88-74-4.SEC	(Lot T6E7B)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,009.8	µg/mL	+/-	11.6852	µg/mL	Gravimetric
	CAS # 534-52-1.SEC	(Lot 1791900)			+/-	22.0047	µg/mL	Unstressed
	Purity 99%				+/-	37.3236	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 101-55-3.SEC	(Lot 84C6D)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
61	Hexachlorobenzene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 118-74-1.SEC	(Lot 20625)			+/-	10.9558	µg/mL	Unstressed
	Purity 98%				+/-	18.5748	µg/mL	Stressed
62	Pentachlorophenol		2,002.2	µg/mL	+/-	11.6410	µg/mL	Gravimetric
	CAS # 87-86-5.SEC	(Lot 1239600)			+/-	21.9215	µg/mL	Unstressed
	Purity 99%				+/-	37.1824	µg/mL	Stressed
63	Phenanthrene		1,004.4	µg/mL	+/-	5.8532	µg/mL	Gravimetric
	CAS # 85-01-8.SEC	(Lot 1238300)			+/-	11.0040	µg/mL	Unstressed
	Purity 99%				+/-	18.6567	µg/mL	Stressed
64	n-Octadecane (C18)		1,001.2	µg/mL	+/-	5.8345	µg/mL	Gravimetric
	CAS # 593-45-3.SEC	(Lot G14U045)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.5973	µg/mL	Stressed
65	Anthracene		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 120-12-7.SEC	(Lot WDFNJ)			+/-	10.9624	µg/mL	Unstressed
	Purity 99%				+/-	18.5861	µg/mL	Stressed
66	Carbazole		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 86-74-8.SEC	(Lot LMIZB)			+/-	10.9756	µg/mL	Unstressed
	Purity 99%				+/-	18.6084	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 84-74-2.SEC	(Lot 42FSG)			+/-	10.9646	µg/mL	Unstressed
	Purity 99%				+/-	18.5899	µg/mL	Stressed
68	Fluoranthene		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 206-44-0.SEC	(Lot FREGF)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6233	µg/mL	Stressed
69	Pyrene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 129-00-0.SEC	(Lot ROVJC)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5750	µg/mL	Stressed
70	Benzyl butyl phthalate		1,004.5	µg/mL	+/-	5.8537	µg/mL	Gravimetric
	CAS # 85-68-7.SEC	(Lot GX3GL)			+/-	11.0051	µg/mL	Unstressed
	Purity 98%				+/-	18.6586	µg/mL	Stressed
71	Benz(a)anthracene		999.7	µg/mL	+/-	5.8257	µg/mL	Gravimetric
	CAS # 56-55-3.SEC	(Lot MTENF)			+/-	10.9524	µg/mL	Unstressed
	Purity 97%				+/-	18.5691	µg/mL	Stressed

72	chrysene		1,003.0	µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS # 218-01-9.SEC	(Lot KQ4SE)			+/-	10.9887	µg/mL	Unstressed
	Purity 99%				+/-	18.6307	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 117-81-7.SEC	(Lot MT8AG)			+/-	10.9953	µg/mL	Unstressed
	Purity 99%				+/-	18.6419	µg/mL	Stressed
74	Di-n-octyl phthalate		1,002.0	µg/mL	+/-	5.8389	µg/mL	Gravimetric
	CAS # 117-84-0.SEC	(Lot O8DLD)			+/-	10.9772	µg/mL	Unstressed
	Purity 98%				+/-	18.6113	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,002.2	µg/mL	+/-	5.8403	µg/mL	Gravimetric
	CAS # 205-99-2.SEC	(Lot 022011)			+/-	10.9799	µg/mL	Unstressed
	Purity 99%				+/-	18.6159	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,006.6	µg/mL	+/-	5.8660	µg/mL	Gravimetric
	CAS # 207-08-9.SEC	(Lot 022011)			+/-	11.0281	µg/mL	Unstressed
	Purity 99%				+/-	18.6976	µg/mL	Stressed
77	Benzo(a)pyrene		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 50-32-8.SEC	(Lot 2IGMD)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 193-39-5.SEC	(Lot 012011)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5750	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 53-70-3.SEC	(Lot 0012012)			+/-	10.9821	µg/mL	Unstressed
	Purity 99%				+/-	18.6196	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,007.6	µg/mL	+/-	5.8718	µg/mL	Gravimetric
	CAS # 191-24-2.SEC	(Lot 0022012)			+/-	11.0391	µg/mL	Unstressed
	Purity 99%				+/-	18.7162	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

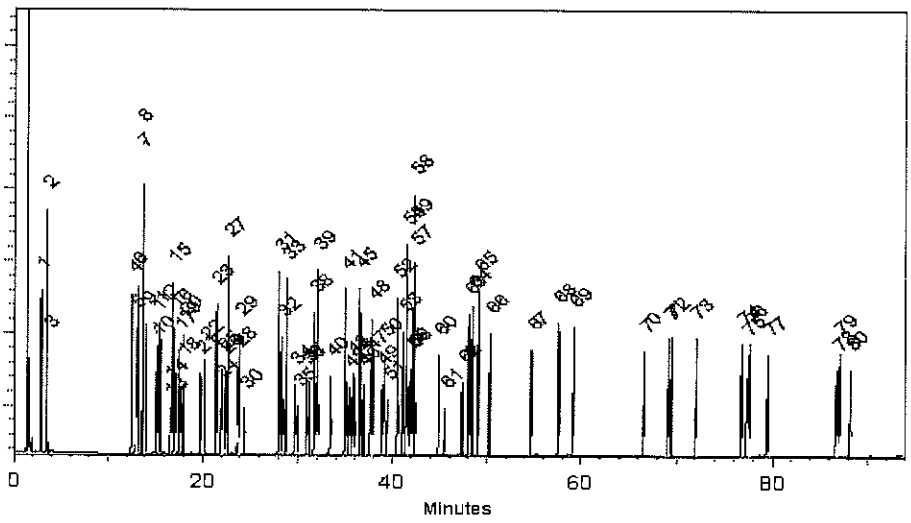
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 10-Dec-2014 **Balance:** 1128353505

Tyler Brown - QA Analyst

Date Passed: 23-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 SS S9_00001

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3223.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730.SEC **Lot No.:** A0108170

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2016 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine		2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC	(Lot 3241700)		+/- 21.8974	µg/mL	Unstressed
	Purity 99%			+/- 37.1416	µg/mL	Stressed
2	3,3'-Dichlorobenzidine		2,007.4 µg/mL	+/- 11.6712	µg/mL	Gravimetric
	CAS # 91-94-1.SEC	(Lot 2982200)		+/- 21.9784	µg/mL	Unstressed
	Purity 99%			+/- 37.2790	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

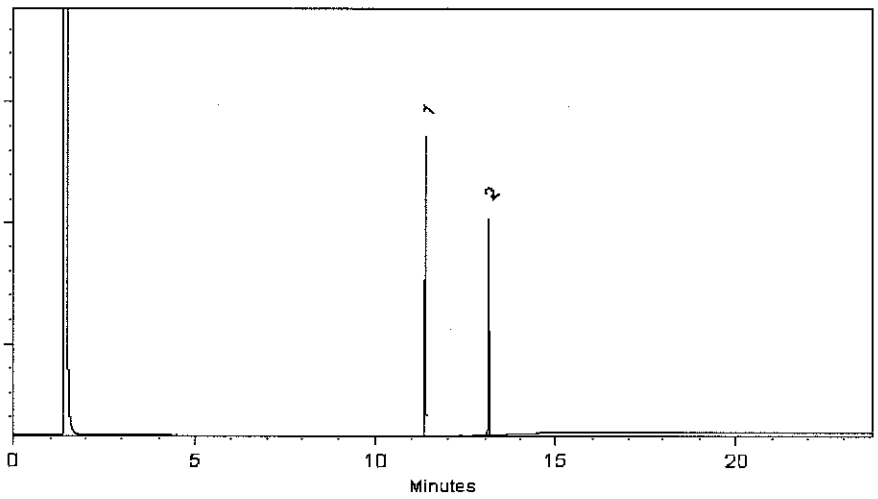
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1128353505

Jennifer L. Pollino - QC Analyst

Date Passed: 13-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 SURR_00003

5MLIST1 SURR-00002

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

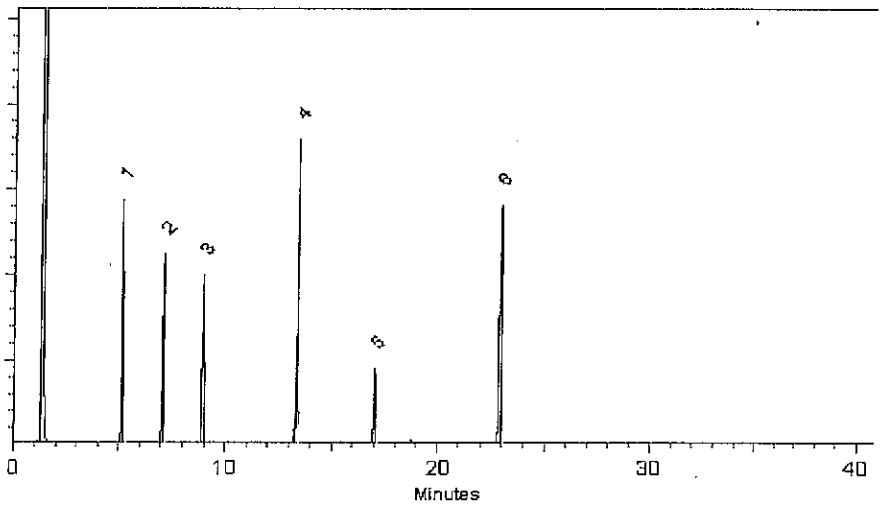
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Diane Shaffer - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731.sec **Lot No.:** A0107944

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.4 µg/mL	+/- 11.6305	µg/mL	Gravimetric
	CAS # 95-13-6.SEC (Lot IG5TI)		+/- 22.5574	µg/mL	Unstressed
	Purity 99%		+/- 25.9570	µg/mL	Stressed
2	Benzoic acid	2,000.7 µg/mL	+/- 11.6324	µg/mL	Gravimetric
	CAS # 65-85-0.SEC (Lot QD3UO)		+/- 22.5610	µg/mL	Unstressed
	Purity 97%		+/- 25.9612	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

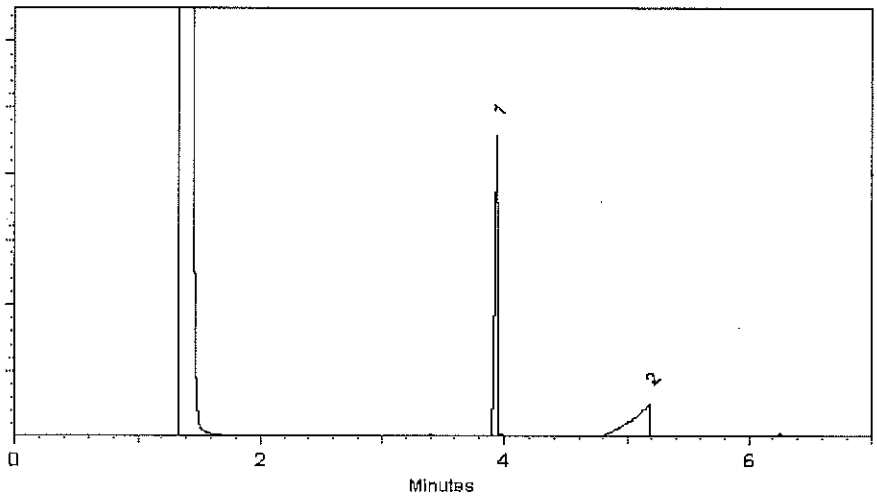
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 22-Dec-2014 **Balance:** 1128353505

Tyler Brown - QA Analyst

Date Passed: 29-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A092712

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
Solvent:	Methylene Chloride			
	CAS # 75-09-2			
	Purity 99%			

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

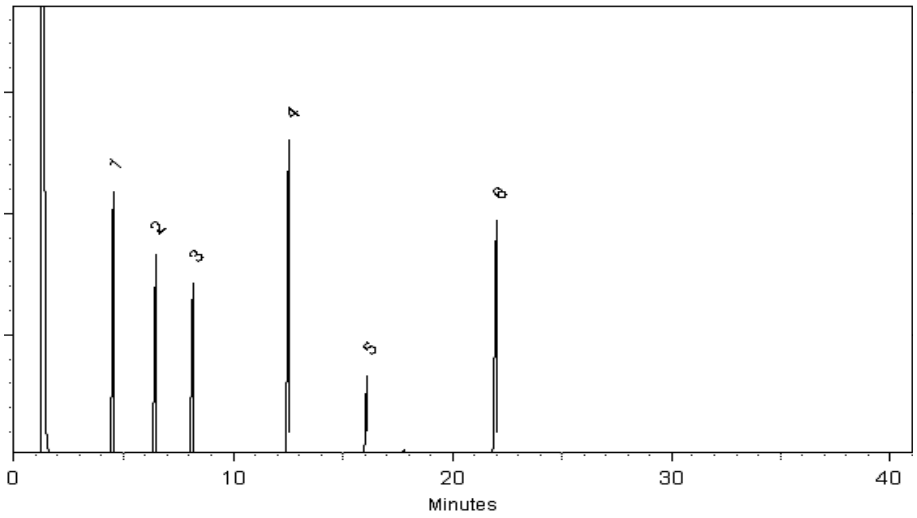
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2013 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

REVIEWED
By jlidgett at 8:46 am, Jan 15, 2013

Reagent

TOX ChemServ_00002

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CERTIFICATE OF ANALYSIS

Camphechlor Solution

CONCENTRATION	1000ug/ml In Hexane
CATALOG NUMBER	S-13586J4-1ML
LOT NUMBER	2180700
DATE CERTIFIED	11/20/13
EXPIRATION DATE	11/30/15
STORAGE	Room Temperature
HANDLING	See MSDS.
INTENDED USE	For laboratory use only.

ID	Analyte	CAS	Weight Analyte (mg)	Lot	Purity	Certified Concentration (ug/mL)
N-13586	Camphechlor	8001-35-2	202.300	1171300	100.00	1011.5

Analytical Test	Value
CONCENTRATION (GC/MSD)	VERIFIED

Instructions for Use:
Mix/shake solution prior to use. If particles are present, sonicate for homogeneity. If sample is diluted to lower concentrations, Class A volumetric glassware must be used.
Minimum Sample Size- 0.2 uL for Direct Injection.
Chem Service Inc. guarantees the expanded uncertainty of the above analyte to be +/- 2.0% of the certified concentration based on gravimetric preparation. The test results published in this report were obtained using equipment capable of producing results that are traceable to NIST and through NIST to the International System of Units (SI). The reported expanded uncertainty of measurement is stated as the combined standard uncertainty of measurement multiplied by the coverage factor k (k=2) such that the coverage probability corresponds to approximately 95%. For certified reference materials, homogeneity and thermal stability testing are available upon request.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ISO 9001
Certificate Number:31610
ISO/IEC 17025
Accreditation Number:83520
ISO GUIDE 34
Accreditation Number:88520

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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	S-13586J4-1ML
Description:	Camphechlor Solution
Lot Number:	2180700
Expiration Date:	11/30/15

ISO 9001
Certificate Number:91610
ISO/IEC 17025
Accreditation Number:68520
ISO GUIDE 84
Accreditation Number:68520

Reagent

Tox Ultra_00006

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

RCVD 10/1/14

Toxaphene Solution

Product Number: EPA-1161 **Page:** 1 of 1

Lot Number: CK-0004 **Lot Issue Date:** 16-Jan-2013 **Expiration Date:** 28-Feb-2017

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
toxaphene	008001-35-2	NT01909	1002 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

William J Leahy
Quality Assurance Manager

250 SMITH STREET N. KINGSTOWN, RHODE ISLAND 02852 USA WWW.ULTRASCI.COM

Reagent

vm30241_00001

Rec: 10/7/13

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 **Lot No.:** A093261

Description : 8260A Internal Standard Mix

Method 8260A Internal Std 2500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Fluorobenzene	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 462-06-6		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
2	Chlorobenzene-d5	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 3114-55-4		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567641_00012

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,999.9 µg/mL	+/- 11.6279	µg/mL	Gravimetric
	CAS # 76-13-1		+/- 44.2519	µg/mL	Unstressed
	Purity 97%		+/- 44.4323	µg/mL	Stressed
3	1,1-dichloroethene	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-35-4		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 74-88-4		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

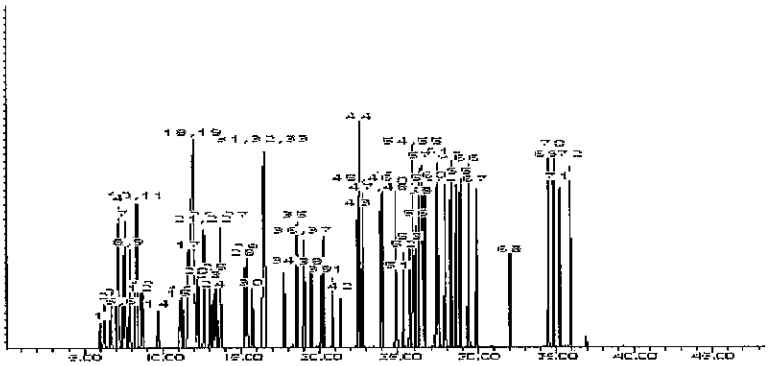
Carrier Gas:
hellium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

VM567641S_00006

RESTEK

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Bellefonte, PA 16823-8812
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ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC **Purity** 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9.SEC **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

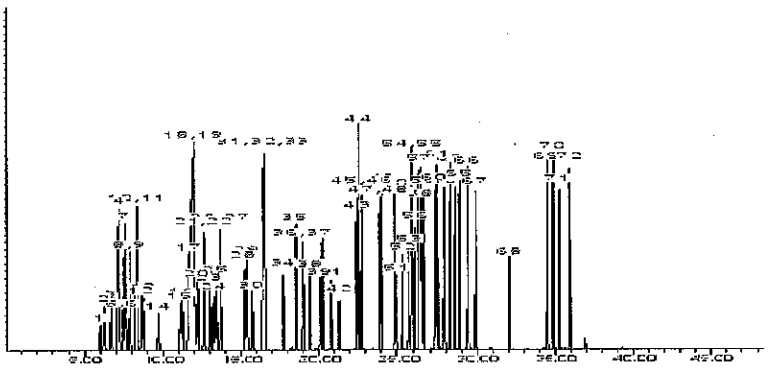
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

VM567641S_00007

RESTEK

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC **Purity** 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9.SEC **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

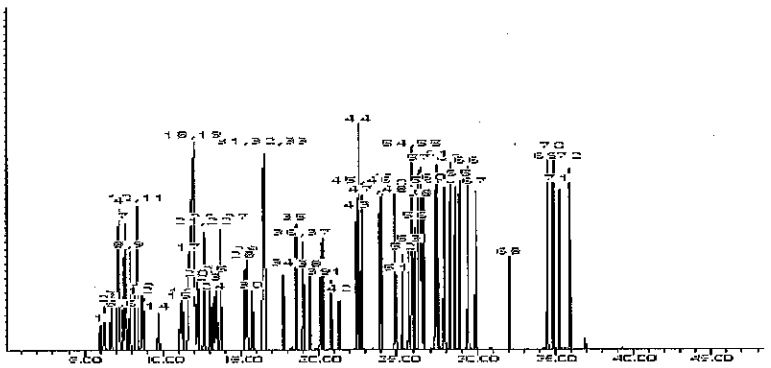
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

VM567642_00014

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 µg/mL +/- 798.6896 µg/mL +/- 799.0807 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 µg/mL +/- 798.6896 µg/mL +/- 799.0807 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 µg/mL +/- 798.6896 µg/mL +/- 799.0807 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 µg/mL +/- 798.6896 µg/mL +/- 799.0807 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM567642S_00003

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM567642S_00005

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Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM567643_00020

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

vm567645_00031

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 **Purity** 99%	2,000.0 µg/mL	+/- 13.8716 +/- 25.2661 +/- 28.2336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 **Purity** 99%	1,999.8 µg/mL	+/- 13.9993 +/- 25.3348 +/- 28.2945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 **Purity** 99%	2,000.1 µg/mL	+/- 13.9625 +/- 25.3168 +/- 28.2792	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 **Purity** 99%	2,000.0 µg/mL	+/- 13.3773 +/- 24.9981 +/- 27.9940	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 **Purity** 99%	2,000.1 µg/mL	+/- 14.2856 +/- 25.4963 +/- 28.4399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 **Purity** 99%	2,000.0 µg/mL	+/- 13.2200 +/- 24.9143 +/- 27.9191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 **Purity** 99%	2,000.0 µg/mL	+/- 13.5174 +/- 25.0735 +/- 28.0614	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	1,999.9 µg/mL	+/- 13.1170 +/- 24.8590 +/- 27.8696	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567645S_00017

VM567645S_00016 Rec: 4/9/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567645.sec **Lot No.:** A099261

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,002.2 µg/mL	+/- 16.7616	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 18348)		+/- 21.2987	µg/mL	Unstressed
	Purity 99%		+/- 24.7536	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 15.8216	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 21.2729	µg/mL	Unstressed
	Purity 99%		+/- 24.7262	µg/mL	Stressed
3	Vinyl chloride	2,001.9 µg/mL	+/- 14.6785	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 21.2759	µg/mL	Unstressed
	Purity 99%		+/- 24.7329	µg/mL	Stressed
4	1,3-Butadiene	2,002.8 µg/mL	+/- 16.7307	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 18349)		+/- 21.3051	µg/mL	Unstressed
	Purity 99%		+/- 24.7611	µg/mL	Stressed
5	Bromomethane (methyl bromide)	1,999.6 µg/mL	+/- 16.2313	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 21.2671	µg/mL	Unstressed
	Purity 99%		+/- 24.7183	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.6721	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot Q18B-13)		+/- 21.2666	µg/mL	Unstressed
	Purity 99%		+/- 24.7221	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.4 µg/mL	+/- 15.1665	µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/- 21.3071	µg/mL	Unstressed
	Purity 99%		+/- 24.7678	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.8 µg/mL	+/- 16.2157	µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot Q139-99)		+/- 21.2894	µg/mL	Unstressed
	Purity 99%		+/- 24.7442	µg/mL	Stressed

Reagent

VM567646_00016

VM567646_00016 Rec: 11/25/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567646 **Lot No.:** A0107309

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	4,013.0 µg/mL	+/- 23.5505	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC8935V)		+/- 213.5870	µg/mL	Unstressed
	Purity 99%		+/- 213.8225	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM567650_00021

Rec: 6/6/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0102817

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane **CAS #** 1868-53-7 **Purity** 99%	(Lot 022012)	2,503.8 µg/mL	+/- 14.5573 +/- 28.2339 +/- 32.4891	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 **Purity** 99%	(Lot 13J-483)	2,502.4 µg/mL	+/- 14.5492 +/- 28.2182 +/- 32.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 **Purity** 99%	(Lot 13I-050)	2,500.0 µg/mL	+/- 14.5352 +/- 28.1911 +/- 32.4398	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 **Purity** 99%	(Lot 01127COV)	2,503.6 µg/mL	+/- 14.5561 +/- 28.2317 +/- 32.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568720_00004

Rec: 11/7/14

VM568720-00004

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0106504

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		19,767.0	µg/mL	+/- 115.7401	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 140903JLM)			+/- 633.7922	µg/mL	Unstressed
	Purity 99%				+/- 736.7140	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720_00006

Vm 568720 — 00006 Rec'd 3/19/15

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Catalog No. : 568720 **Lot No.:** A0108734

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/mL, Water, 1 mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		19,890.0	µg/mL	+/- 116.4603	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 150115JLM)			+/- 637.7359	µg/mL	Unstressed
	Purity 99%				+/- 741.2982	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

vm569722_00001

VM569722-00001 Rec: 1/15/15

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Catalog No. : 569722 **Lot No.:** A0108198

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)		2,504.8 µg/mL	+/-	21.9788	µg/mL	Gravimetric
✓	**CAS #** 75-71-8	(Lot Q167-08)		+/-	32.6918	µg/mL	Unstressed
	Purity 99%			+/-	36.4326	µg/mL	Stressed
2	Chloromethane (methyl chloride)		2,509.8 µg/mL	+/-	19.6377	µg/mL	Gravimetric
✓	**CAS #** 74-87-3	(Lot SHBC8470V)		+/-	31.2039	µg/mL	Unstressed
	Purity 99%			+/-	35.1185	µg/mL	Stressed
3	Vinyl chloride		2,515.3 µg/mL	+/-	22.1368	µg/mL	Gravimetric
✓	**CAS #** 75-01-4	(Lot 17542)		+/-	32.8734	µg/mL	Unstressed
	Purity 99%			+/-	36.6254	µg/mL	Stressed
4	1,3-Butadiene		2,498.0 µg/mL	+/-	23.6713	µg/mL	Gravimetric
✓	**CAS #** 106-99-0	(Lot SHBD5808V)		+/-	33.8065	µg/mL	Unstressed
	Purity 99%			+/-	37.4176	µg/mL	Stressed
5	Bromomethane (methyl bromide)		2,503.7 µg/mL	+/-	30.8470	µg/mL	Gravimetric
✓	**CAS #** 74-83-9	(Lot 101604)		+/-	39.2011	µg/mL	Unstressed
	Purity 99%			+/-	42.3685	µg/mL	Stressed
6	Chloroethane (ethyl chloride)		2,507.7 µg/mL	+/-	21.9404	µg/mL	Gravimetric
✓	**CAS #** 75-00-3	(Lot SHBD1717V)		+/-	32.6873	µg/mL	Unstressed
	Purity 99%			+/-	36.4370	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)		2,500.7 µg/mL	+/-	26.0039	µg/mL	Gravimetric
✓	**CAS #** 75-43-4	(Lot Q9B-58)		+/-	35.4965	µg/mL	Unstressed
	Purity 99%			+/-	38.9583	µg/mL	Stressed

Reagent

WCCN1000PPM_00024

INORGANIC VENTURES™
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inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED
Testing Laboratory
Certificate 883.01

2.0 PRODUCT DESCRIPTION

Product Code:	Water QC Reference Material
Catalog Number:	CN-1000-25
Lot Number:	H2-CN01041
Matrix:	H_2O
Starting Material:	Sodium Cyanide
Starting Material Lot Number:	00426KR

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1021 ± 20 µg/mL
Certified Density: 0.999 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1 1021 ± 2 µg/mL
Titrimetric Method, NIST SRM 3151, Lot Number 992212

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2 [\Sigma (s_i)^2]^{1/2}$

2 = the coverage factor
$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

No correction has been applied for transpiration that will occur after the CRM/RM bottle has been removed from the sealed aluminized bag. See Sec. 7.0 (Instructions for the Correct Use of this Reference Material) for more information.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

Reagent

WCPHLCS_00010

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WP pH — Lot #8137-15

TNI Analyte Code	Analyte	Certified Value S.U.	Acceptance Limits S.U.	Acceptance Limits %
1900	pH	6.15	5.95 - 6.35	96.7 - 103

Certified Values = "100% true concentration" of each analyte as determined from gravimetric and volumetric measurements made during standard manufacture.

Acceptance Limits = Generated based on the criteria established by The NELAC Institute (TNI) Fields of Proficiency Testing tables using regression equations and/or fixed percentage limits and other criteria distributed by accrediting agencies as applicable. Please note that regression based acceptance criteria are based on the Assigned Value and may have different criteria at different concentrations.

Solvent = ASTM Type I H_2O

Store at 20-25°C.

Expiration Date: 08/16

Catalog #: QC-PH-WP

Preparation Instructions: The pH standard is provided as a ready-to-use standard that can be analyzed directly from the bottle. Shake the bottle prior to opening. Transfer the aliquot needed for analysis and tightly re-cap the bottle.

NOTE: Although the pH standard is manufactured from buffers and is inherently stable, care should be taken to avoid excessive exposure to atmospheric air. Excessive exposure can lead to the adsorption of carbon dioxide which will elevate the pH. Be sure to tightly cap the bottle immediately after each use.

Approved by: AFL

Date: 08/14

Reviewed by: CJ

Date: 08/14

Reagent

HP35DNATA_00030

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Recd 8-22-14

Catalog No. : 31661 **Lot No.:** A0101716

Description : 3,5-Dinitroaniline Standard

3, 5-Dinitroaniline Std 1000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,5-Dinitroaniline	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 618-87-1 (Lot 10311HS)		+/- 27.6728	µg/mL	Unstressed
	Purity 99%		+/- 27.6728	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

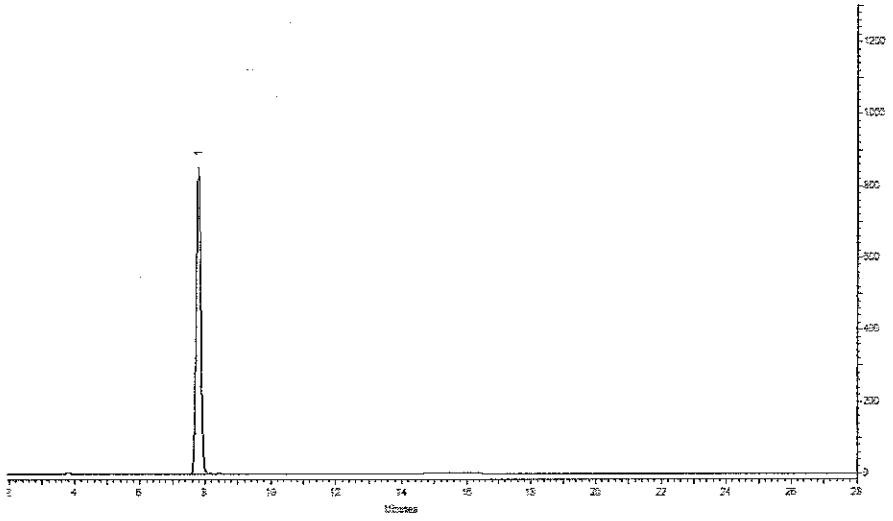
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 04-Mar-2014 **Balance:** 1125113331

Diane Shaffer - QA Analyst

Date Passed: 06-Mar-2014

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

HP35DNATA_00031

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31661 **Lot No.:** A0101716

Description : 3,5-Dinitroaniline Standard

3, 5-Dinitroaniline Std 1000µg/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L., K=2)		
1	3,5-Dinitroaniline		1,002.0	µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 618-87-1	(Lot 10311HS)			+/- 27.6728	µg/mL	Unstressed
	Purity 99%				+/- 27.6728	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

R. 7/25/14 TQF

Reagent

HP8330SU_00029

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31452 **Lot No.:** A095548

Description : 8330 Internal Standard Mix

8330 Internal Std 3, 4-Dinitrotoluene 1000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,4-Dinitrotoluene CAS # 610-39-9 Purity 99%	(Lot 1433716V)	1,008.0 µg/mL	+/- 5.9872 µg/mL +/- 12.2118 µg/mL +/- 13.7643 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Reagent

HP8330SU_00032

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31452 **Lot No.:** A0102330

Description : 8330 Internal Standard Mix

8330 Internal Std 3, 4-Dinitrotoluene 1000µg/mL, Methanol, 1mL/ampul

Recd 11-24-14 HSA

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,4-Dinitrotoluene	1,001.6 µg/mL	+/- 5.9490	µg/mL	Gravimetric
	CAS # 610-39-9 (Lot 01416AZ)		+/- 11.3594	µg/mL	Unstressed
	Purity 98%		+/- 13.0530	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

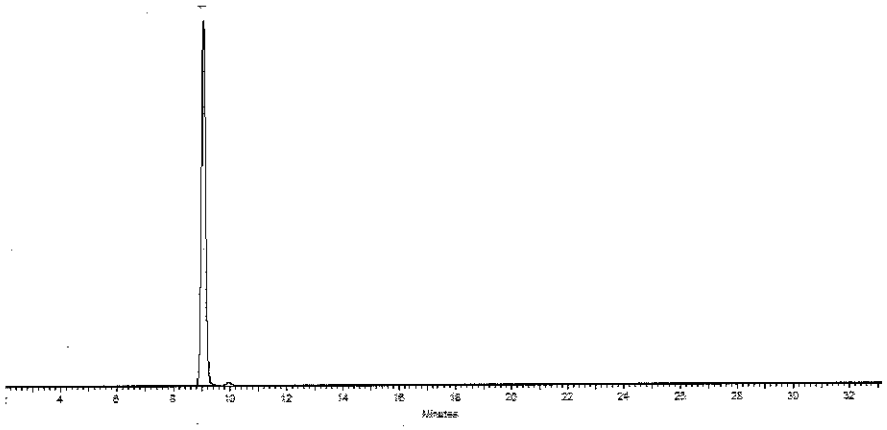
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham - Mix Technician

Date Mixed: 30-Mar-2014 **Balance:** B251644995

Diane Shaffer - QAAnalyst

Date Passed: 01-Apr-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

HP8330TA_00031

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ISO GUIDE 34
ISO/IEC 17025
ISO 13485
ISO 9001
GMP/GLP

Method 8330 Stock Standard

Catalog Number: ERE-021
Solution Lot: ER083011-01
Expiration Date: August 2016
Solvent: Acetonitrile
Volume per Ampule: Not less than 1.2 mL
Storage: Store unopened in Freezer.
Intended Use: For R&D/ analytical purposes only. Not suitable for human or animal consumption.
Safety: Flammable, Poison

- Expiration Date has been established through real time stability studies.
- Ampules are overfilled to ensure a minimum 1.2 mL volume. We advise laboratories to use measured volumes of this standard solution before diluting to the desired concentration.

Component	Chromatographic Purity	Concentration
2-Amino-4,6-dinitrotoluene	99.98%	200.0 µg/mL
4-Amino-2,6-dinitrotoluene	99.88%	200.0 µg/mL
1,3-Dinitrobenzene	98.72%	200.0 µg/mL
2,4-Dinitrotoluene	99.00%	200.0 µg/mL
2,6-Dinitrotoluene	99.59%	200.0 µg/mL
HMX	98.41%	200.0 µg/mL
Nitrobenzene	99.96%	200.0 µg/mL
2-Nitrotoluene	99.95%	200.0 µg/mL
3-Nitrotoluene	99.94%	200.0 µg/mL
4-Nitrotoluene	99.81%	200.0 µg/mL
RDX	99.94%	200.0 µg/mL
Tetryl	98.67%	200.0 µg/mL
1,3,5-Trinitrobenzene	99.96%	200.0 µg/mL
2,4,6-Trinitrotoluene (TNT)	99.89%	200.0 µg/mL

- Concentration is corrected for chromatographic purity, residual water, residual solvents and residual inorganics.

Traceability

- Gravimetrically prepared using qualified balances calibrated semi-annually by Mettler Toledo using NIST traceable weights. Calibration verification performed weekly and prior to each use utilizing NIST traceable weights. Each balance has been assigned a minimum weighing by Mettler Toledo taking into consideration the balance and installed environmental conditions to ensure weighing complies with USP tolerances of no more than 0.1% relative error.
- Concentration is verified against an independently prepared calibration solution gravimetrically prepared using balances calibrated to NIST.
- In addition, each neat material utilized has been identified and thoroughly characterized through the use of multiple analytical techniques. Spectral data is provided on subsequent pages of the COA.

Cerilliant certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiration/retest date when stored unopened as recommended. Product should be used shortly after opening to avoid concentration changes due to evaporation. Warranty does not apply to ampoules stored after opening.

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REFERENCE MATERIAL PRODUCER

Lara Sparks

Lara Sparks, Quality Assurance Director

September 27, 2011
Date

Reagent

HP8330TA_00032

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Catalog No. : 33905 **Lot No.:** A0102389

Description : 8330 Calibration Standard

Nitroaromatics and Nitramine Explosives by HPLC, 1mL/ampul
1000µg/mL Acetonitrile *PGI BOX REQUIRED* SHIP FED EX
GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	HMX		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 2691-41-0	(Lot 111005JLM)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed
2	RDX		1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 121-82-4	(Lot 080220JLM)		+/-	53.8797	µg/mL	Unstressed
	Purity 99%			+/-	58.5858	µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,005.5 µg/mL	+/-	5.9722	µg/mL	Gravimetric
	CAS # 99-35-4	(Lot UNVVB)		+/-	54.0669	µg/mL	Unstressed
	Purity 98%			+/-	58.7893	µg/mL	Stressed
4	1,3-Dinitrobenzene		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed
5	Nitrobenzene		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBB0246V)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed
6	Tetryl		1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 479-45-8	(Lot 091120JLM)		+/-	54.0948	µg/mL	Unstressed
	Purity 99%			+/-	58.8197	µg/mL	Stressed
7	2,4,6-Trinitrotoluene		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 118-96-7	(Lot 2554100)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed

8	2-Amino-4,6-dinitrotoluene		1,004.0	µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 35572-78-2	(Lot 29550-55)			+/- 53.9873	µg/mL	Unstressed
	Purity 99%				+/- 58.7028	µg/mL	Stressed
9	4-Amino-2,6-dinitrotoluene		1,000.0	µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 19406-51-0	(Lot ER070908-01)			+/- 53.7722	µg/mL	Unstressed
	Purity 99%				+/- 58.4689	µg/mL	Stressed
10	2,4-Dinitrotoluene		1,002.0	µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)			+/- 53.8797	µg/mL	Unstressed
	Purity 99%				+/- 58.5858	µg/mL	Stressed
11	2,6-Dinitrotoluene		1,004.0	µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)			+/- 53.9873	µg/mL	Unstressed
	Purity 99%				+/- 58.7028	µg/mL	Stressed
12	2-Nitrotoluene		1,006.0	µg/mL	+/- 5.9753	µg/mL	Gravimetric
	CAS # 88-72-2	(Lot GA01)			+/- 54.0948	µg/mL	Unstressed
	Purity 99%				+/- 58.8197	µg/mL	Stressed
13	4-Nitrotoluene		991.3	µg/mL	+/- 5.8883	µg/mL	Gravimetric
	CAS # 99-99-0	(Lot FAU01)			+/- 53.3065	µg/mL	Unstressed
	Purity 97%				+/- 57.9626	µg/mL	Stressed
14	3-Nitrotoluene		1,003.0	µg/mL	+/- 5.9574	µg/mL	Gravimetric
	CAS # 99-08-1	(Lot FBO01)			+/- 53.9324	µg/mL	Unstressed
	Purity 97%				+/- 58.6431	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Specific Reference Material Notes:

Reagent

HP8330TA_00033

R. 7/28/14 TQP

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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33905 **Lot No.:** A0102389

Description : 8330 Calibration Standard

Nitroaromatics and Nitramine Explosives by HPLC, 1mL/ampul
1000µg/mL Acetonitrile *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 2691-41-0	(Lot 111005JLM)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed
2	RDX		1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 121-82-4	(Lot 080220JLM)		+/- 53.8797 µg/mL	Unstressed
	Purity 99%			+/- 58.5858 µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,005.5 µg/mL	+/- 5.9722 µg/mL	Gravimetric
	CAS # 99-35-4	(Lot UNVVB)		+/- 54.0669 µg/mL	Unstressed
	Purity 98%			+/- 58.7893 µg/mL	Stressed
4	1,3-Dinitrobenzene		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed
5	Nitrobenzene		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBB0246V)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed
6	Tetryl		1,006.0 µg/mL	+/- 5.9753 µg/mL	Gravimetric
	CAS # 479-45-8	(Lot 091120JLM)		+/- 54.0948 µg/mL	Unstressed
	Purity 99%			+/- 58.8197 µg/mL	Stressed
7	2,4,6-Trinitrotoluene		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 118-96-7	(Lot 2554100)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed

Reagent

HPEGDNTA_00016

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31601 **Lot No.:** A097821

Description : EGDN Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	EGDN		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 628-96-6	(Lot 120716JLM)		+/- 31.6700	µg/mL	Unstressed
	Purity 99%			+/- 44.3869	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TRP

Reagent

HPNCTA_00005

University of California, Santa Barbara
Marine Science Institute
Analytical Lab

Date 12/17/2014

Invoice # AL1264

Jason Baynes
Dept. of General Chemistry
Test America
880 Riverside Parkway
West Sacramento, CA 95605

Work performed for: Jason Baynes
P.O. 2590928

Date	Comment	Item	Item Description	Unit	Quantity	Rate	Rate Group	Total
11/25/14	Batch # 4721	CHN_SYN	CHN Synthetic	sampl	2.00	$30.40	Non-UC	$60.80

Amount Due: **$60.80**

For questions about services provided please contact:

Georges Paradis
paradis@msi.ucsb.edu
805 893-3802

[redacted]

For questions about remitting your payment please contact:

Tim Schmidt, 4401 MSRB, UCSB
Santa Barbara, CA 93106
805 893-4093

Please make checks payable to the UC Regents.
Please referenceMSI/8-261802-61802-0/RECH01.

Mail check to: Georges Paradis
4002 MSRB, UCSB
Santa Barbara, CA 93106-6150

Sample Batch:	Jason Baynes	AL 4721	P1		Run Date:	25-Nov-14
Sample ID	Weight (ug)	Weight Percent			C/N ratio	Flags
		C	H	N		
Flash Cotton	1948	7.17	0.69	3.32	2.16	
Flash Cotton	2095	7.29	0.64	3.37	2.16	

Detection Limit (µg)	C	H	N
	0.42	1.21	3.15

Sample Batch:	Jason Baynes	AL 4721	P2		Run Date:	3-Dec-14
Sample ID	Weight (ug)	Weight Percent			C/N ratio	Flags
		C	H	N		
Flash Cotton	2578	24.7	2.39	12.1	2.04	
Flash Cotton	1713	25.2	2.65	12.0	2.10	

Detection Limit (µg)	C	H	N
	1.74	3.48	1.01

Assayed at Marine Science

Read 12/15/14

Reagent

HPNGTA_00027

125 Market Street
New Haven, CT 06513 US

Tel (203) 786-5290 Fax (203) 786-5287
Web www.accustandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

CATALOG NO: M-8330-ADD-1
DESCRIPTION: Nitroglycerin
LOT: 212031351-01
SOLVENT: Ethanol

DATE CERTIFIED: May 7, 2013
EXPIRATION: May 7, 2015
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Refrig (0-5° C)
HAZARDS: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS No.	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroglycerin	55-63-0	99.4	100.6	100.0

AccuStandard

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Certified by: R. Cooper
Russ Cooper, QC Manager

For use in routine laboratory analysis. Refer to the MSDS for additional information.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001.

QR-ORG/INC-001
Rev. 06/05

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Reagent

HPNGTA_00033

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31498 Lot No.: A0105695

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

Recd 11-29-14

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : September 30, 2019 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.I., K=2)	
1	Nitroglycerin	1,010.0 µg/mL	+/- 5.9991 µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 13102IJLM)		+/- 54.3099 µg/mL	Unstressed
	Purity 99%		+/- 59.0536 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

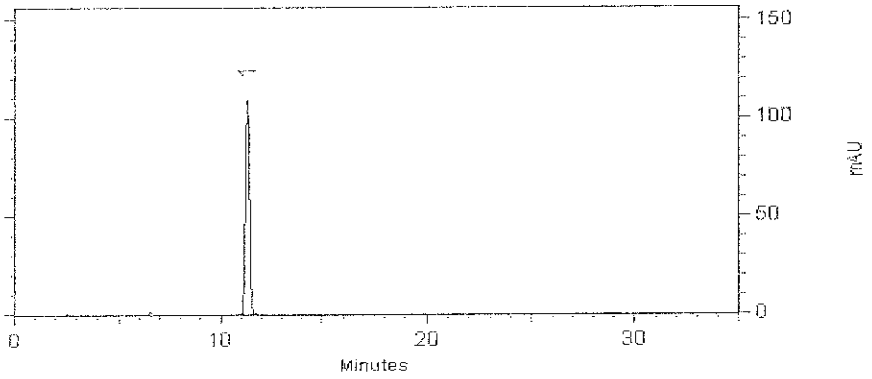
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham - Mix Technician

Date Mixed: 02-Sep-2014 Balance: 1128342313

Diane Shaffer - QA Analyst

Date Passed: 08-Sep-2014

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 30397

Reagent

HPNGTA_00034

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31498 **Lot No.:** A096573

Description : Nitroglycerin Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	1,003.6 µg/mL	+/- 5.8897	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 121115JLM)		+/- 31.7838	µg/mL	Unstressed
	Purity 99%		+/- 44.5465	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TAP

Reagent

HPNGTA_00035

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Tel (203) 786-5290 Fax (203) 786-5287
Web www.accustandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

CATALOG NO: M-8330-ADD-1
DESCRIPTION: Nitroglycerin
LOT: 212031351-01
SOLVENT: Ethanol

DATE CERTIFIED: May 7, 2013
EXPIRATION: May 7, 2015
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Refrig (0-5° C)
HAZARDS: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS No.	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroglycerin	55-63-0	99.4	100.6	100.0

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Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Certified by: R. Cooper
Russ Cooper, QC Manager

For use in routine laboratory analysis. Refer to the MSDS for additional information.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001.

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Rev. 09/05

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Reagent

HPNGTA_00036

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Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31498 **Lot No.:** A096573

Description : Nitroglycerin Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	1,003.6 µg/mL	+/- 5.8897	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 121115JLM)		+/- 31.7838	µg/mL	Unstressed
	Purity 99%		+/- 44.5465	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TAP

Reagent

HPNQTA_00015

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Bellefonte, PA 16823-8812
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31602 **Lot No.:** A0100497

Description : Nitroguanidine Standard

Nitroguanidine 1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroguanidine	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 556-88-7 (Lot 03708HN)		+/- 53.8797	µg/mL	Unstressed
	Purity 99%		+/- 58.5858	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

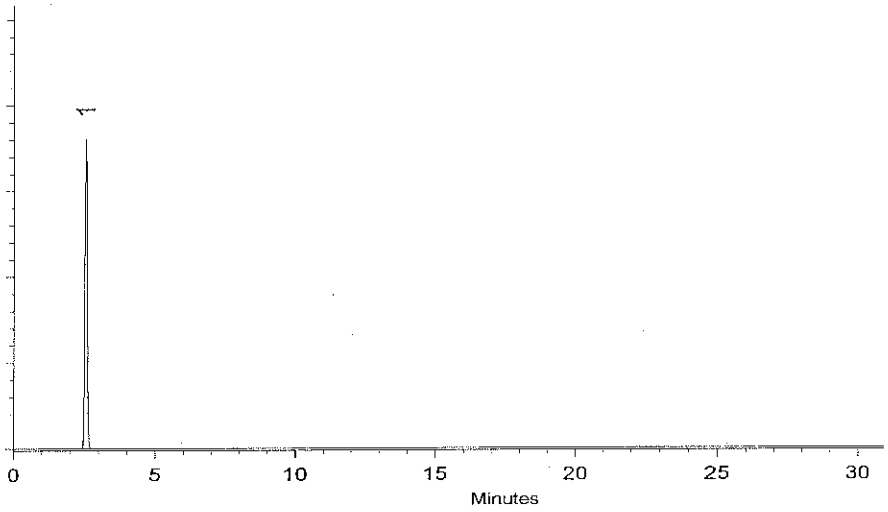
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 08-Jan-2014 **Balance:** 1128342313

Jennifer L. Pollino - QC Analyst

Date Passed: 10-Jan-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

HPNQTA_00016

HPNQTA-00001

5

10

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. :	31602	**Lot No.:**	A076817
Description :	Nitroguanidine Standard		
Container Size :	2 mL	**Pkg Amt:**	> 1 mL
Expiration Date : [1]	September 2015	**Storage:**	Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. [3] (weight/volume)	% Grav.Uncert. [4] (95% C.L., K=2)
1	Nitroguanidine	556-88-7	99%	1,000.000 ug/ml	+/-0.59 %
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

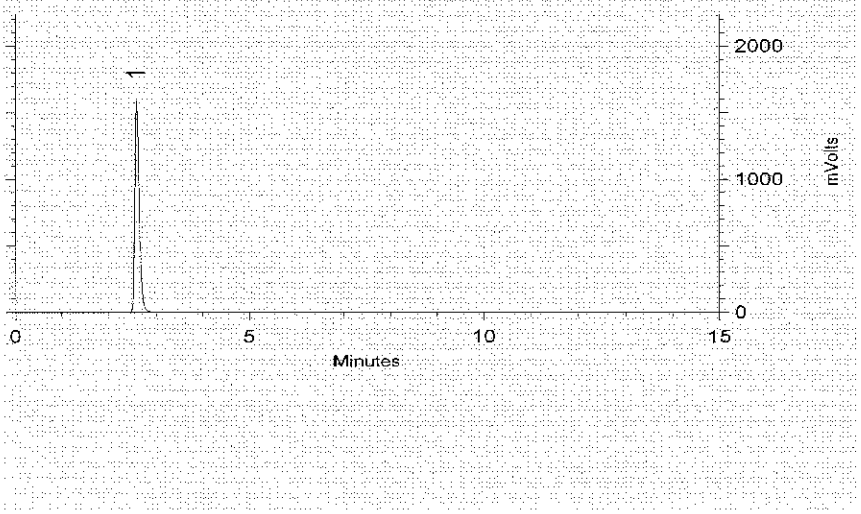
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 16-Sep-2010 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

Reagent

HPNQTA_00017

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USA

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-6
Description: Nitroguanidine
Lot: 213071053
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jul 3, 2013
Expiration: Jul 3, 2015
Sample Size: 1 mL
Storage Condition: Freeze (<-10° C)

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroguanidine	556-88-7	100.0	100.1	100.1

Recd 12/1/M TQP

[1] All weights are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

   ISO Guide 34 - General Requirements for the Competence of Reference Material Producers ACLASS Certificate Number AR-1463

   AR-1463

   ISO/IEC 17025:2005 - General Requirements for the Competence of Testing and Calibration Laboratories ACLASS Certificate Number AT-1339

   AT-1339

   ISO 9001:2008 Quality Management System - Requirements Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.

4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.

5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.

7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.

8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.

9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide (Quantifying Uncertainty in Analytical Measurement). We have evaluated both Type A (based on a series of observations) and Type B (manufacturers specifications and calibration data) factors and report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$. The expanded uncertainty, U, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level. Laboratories accredited to ISO/IEC 17025 and ISO Guide 34 are required to estimate uncertainty budgets associated with the measurements they make. However, for analysis, the certified value should be used as the actual value.

10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

HPPATA_00020

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31499 **Lot No.:** A0101731

Description : Picric Acid Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Picric Acid	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 88-89-1 (Lot 06130CU)		+/- 53.8797	µg/mL	Unstressed
	Purity 99%		+/- 58.5858	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TQP

Specific Reference Material Notes:
This is a derivatized analysis.

Reagent

HPPETNTA_00025

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-2
Description: PETN

Lot: 211081055-01
Solvent: Methanol

Date Certified: Feb 20, 2013
Expiration: Feb 20, 2015
Sample Size: 1 mL
Storage Condition: Refrig (0-5° C)
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
PETN	78-11-5	99.3	100.3	99.6

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

See reverse side for additional information
Refer to the MSDS for additional safety information

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

Reagent

HPPETNTA_00030

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31600 Lot No.: A098102

Description : PETN Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Recd 11-29-14

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : September 30, 2018 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., k=2)	
1	PETN	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 78-11-5 (Lot 051108JLM)		+/- 31.7173 µg/mL	Unstressed
	Purity 99%		+/- 44.4533 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

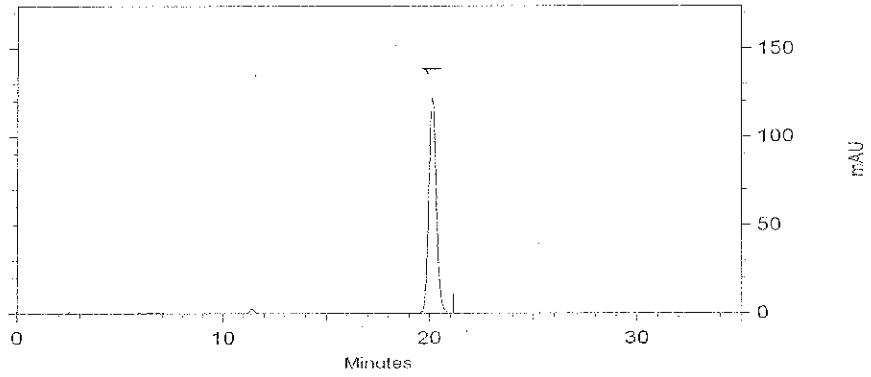
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye

Date Mixed: 17-Sep-2013 Balance: 1128353505

Jodi E. Breon - QA Analyst

Date Passed: 19-Sep-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

HPPETNTA_00031

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31600 **Lot No.:** A098102

Description : PETN Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	PETN		1,001.5 µg/mL		+/- 5.8774	µg/mL	Gravimetric
	CAS # 78-11-5	(Lot 051108JLM)			+/- 31.7173	µg/mL	Unstressed
	Purity 99%				+/- 44.4533	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/25/14 TQP

Reagent

HPPETNTA_00032

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-2
Description: PETN
Lot: 211081055-02
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Sep 2, 2014
Expiration: Sep 2, 2016
Sample Size: 1 mL
Storage Condition: Refrig (0-5° C)

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
PETN	78-11-5	99.3	100.3	99.6

Recd 12/1/14 TQP

[1] All weights are traceable through NIST, Test No. 822/272103-05

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

OR-ORG/INO-001
Rev. 7/11

Reagent

HPPETNTA_00033

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31600 **Lot No.:** A0106847

Description : PETN Standard

PETN Standard 1000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	PETN		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 78-11-5	(Lot 051108JLM)		+/- 53.7722	µg/mL	Unstressed
	Purity 99%			+/- 58.4689	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Rec'd 11/25/14 TQP

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

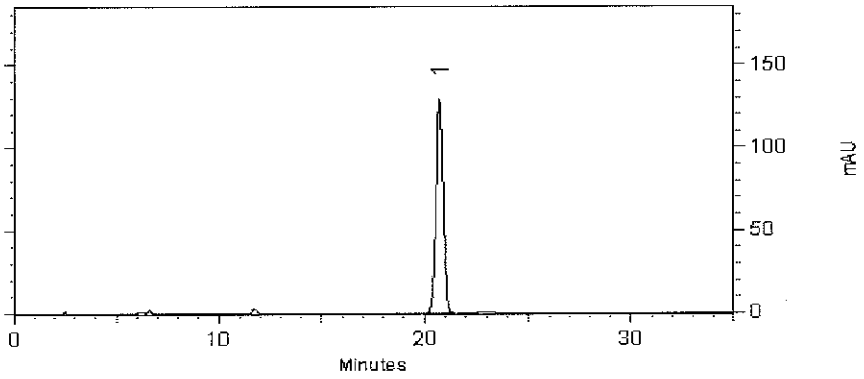
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sawyer

Diane Shaffer

Diane Shaffer - QA Analyst

Date Mixed: 27-Oct-2014 **Balance:** 1128360905

Date Passed: 07-Nov-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

WC-N02-1000_00052

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062004-01-01	1064466	21-Feb-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrite as N, 100 mL 1,000 mg/L in H_2O

Additional Information:

Date Received: _____

Container: 4 oz (125 mL) Narrow Mouth, HDPE

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
NO_2 as N	N	7727-37-9	3152	010728	7097.46.6P	99.999	1000	3.5

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062004-01-01	I064466	21-Feb-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrite as N, 100 mL 1,000 mg/L in H_2O

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062004-01-01	1064466	21-Feb-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrite as N, 100 mL 1,000 mg/L in H_2O

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c=\sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed for thirteen months from the date manufactured.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Carrie Bibbins

Manufacture Date: 8/20/2014

Certified By:

Zachary Spinelli

Certified Date:8/21/2014

Released By:

HuiChen Stavros, Ph.D.

Original Issue Date: 8/21/2014

Reagent

WC-N02SS50223_00002

ERA

A Waters Company

Certificate of Analysis

PRODUCT:	1000 mg/L Nitrite as N (NO_2-N)
CATALOG NUMBER:	053 -125 mL; 990 - 500 mL
LOT NUMBER:	070414
ISSUE DATE:	April 21, 2014
REVISION DATE:	Original
STARTING MATERIAL:	Sodium Nitrite ($NaNO_2$)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	1.0009 ± 0.0005 g/mL at 21.5°C and 767 mm Hg
TRACEABILITY[3]:	NA
NIST/SRM:	SRM not available
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

Scanned 8/27/14

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor which is equal to the student t factor at a 95% confidence interval at n-1 degrees of freedom. The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability Recovery = ((% Recovery certified standard)/(% Recovery NIST SRM))*100.

   The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

This standard **expires 4/2016**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Tom Widera

ISO/IEC GUIDE 34:2009 — ACCREDITED — REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1939.03

ISO/IEC 17025:2005 — ACCREDITED — CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1529.02

16341 Table Mtn Pkwy, Golden, CO 80403 800-372-0122 fax: 303-421-0159 www.eraqc.com

Reagent

WC-N03-1000_00028

CPI INTERNATIONAL

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062003-01-01	1070689	5-Aug-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrate as N (from $NaNO_3$), 100 mL 1,000 mg/L in H_2O

Additional Information:

Date Received: 2/10/15

Container: 4 oz (125 mL) Narrow Mouth, HDPE

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
NO_3 as N	N	7631-99-4	3152	010728	7019.46.5P	99.999	1000	4.0

Signed 2/12/15

CPI INTERNATIONAL

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062003-01-01	1070689	5-Aug-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrate as N (from $NaNO_3$), 100 mL 1,000 mg/L in H_2O

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Refrigerated

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062003-01-01	1070689	5-Aug-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrate as N (from $NaNO_3$), 100 mL 1,000 mg/L in H_2O

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c = \sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Carrie Bibbins
Manufacture Date: 2/2/2015

Certified By:

Zachary Spinelli
Certified Date:2/2/2015

Released By:

Mark Filla
Original Issue Date: 2/2/2015

Reagent

WC-N03SS50223_00002

ERA

A Waters Company

Certificate of Analysis

Rcd 9/24/14

Scanned 10/17/14

PRODUCT:	1000 mg/L Nitrate as N (NO_3-N)
CATALOG NUMBER:	052 -125 mL; 991 - 500 mL
LOT NUMBER:	320614
ISSUE DATE:	June 26, 2014
REVISION DATE:	Original
STARTING MATERIAL:	Potassium Nitrate (KNO_3)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	1.0015 ± 0.0005 g/mL at 21.5°C and 764 mm Hg
TRACEABILITY[3]:	100%
NIST/SRM:	3185 Nitrate
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor which is equal to the student t factor at a 95% confidence interval at n-1 degrees of freedom. The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability Recovery = ((% Recovery certified standard)/(% Recovery NIST SRM))*100.

   The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

This standard **expires 6/2016**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Tom Widera

ISO/IEC GUIDE 34:2009 — ACCREDITED — REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 — ACCREDITED — CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

16341 Table Mtn Pkwy, Golden, CO 80403 800-372-0122 fax: 303-421-0159 www.eraqc.com

Method 8260B DOD

Volatile Organic Compounds (GC/MS) by Method 8260B/DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MRL 240-177316/7	94	91	97	89
	MRL 240-177316/14	91	88	87	80

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
079SB-0383-0001-ID W	240-49236-1	90	85	85	77
	LB 240-176667/1-A MB	95	88	89	82
	LCS 240-177316/9	94	84	90	84

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	84-128
DCA = 1,2-Dichloroethane-d4 (Surr)	80-121
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	70-124

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MRL 240-176298/5	99	100	96	99
	MRL 240-176298/15	96	101	96	97

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
079SB-0385-0001-SW	240-49236-3	96	101	95	95
079SB-0387-0001-RB	240-49236-5	97	99	97	97
079SB-0388-0001-TB	240-49236-6	97	98	97	95
	MB 240-176298/6	95	99	95	95
	LCS 240-176298/4	98	100	97	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water (TCLP) Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
079SB-0384-0001-ID W	240-49236-2	96	93	99	85
079SB-0384-0001-ID W MS	240-49236-2 MS	99	87	97	92
079SB-0384-0001-ID W MSD	240-49236-2 MSD	98	99	95	88

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	84-128
DCA = 1,2-Dichloroethane-d4 (Surr)	80-121
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	70-124

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM7136.D

Lab ID: LCS 240-176298/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	10.7	107	65-130	
1,1,2,2-Tetrachloroethane	10.0	9.22	92	65-130	
1,1,2-Trichloroethane	10.0	9.39	94	75-125	
1,1-Dichloroethane	10.0	10.6	106	70-135	
1,1-Dichloroethene	10.0	10.9	109	70-130	
1,2-Dichloroethane	10.0	10.5	105	70-130	
1,2-Dichloropropane	10.0	10.2	102	75-125	
2-Butanone (MEK)	20.0	19.4	97	30-150	
2-Hexanone	20.0	17.8	89	55-130	
4-Methyl-2-pentanone (MIBK)	20.0	19.4	97	60-135	
Acetone	20.0	16.4	82	40-140	
Benzene	10.0	10.2	102	80-120	
Bromoform	10.0	9.41	94	70-130	
Bromomethane	10.0	8.72	87	30-145	
Carbon disulfide	10.0	11.3	113	35-160	
Carbon tetrachloride	10.0	11.2	112	65-140	
Chlorobenzene	10.0	9.48	95	80-120	
Chloromethane	10.0	10.3	103	40-125	
cis-1,3-Dichloropropene	10.0	10.6	106	70-130	
Dibromochloromethane	10.0	9.75	97	60-135	
Bromodichloromethane	10.0	9.94	99	75-120	
Ethylbenzene	10.0	9.93	99	75-125	
Methyl tert-butyl ether	10.0	10.2	102	65-125	
Methylene Chloride	10.0	10.1	101	55-140	
Styrene	10.0	10.1	101	65-135	
Tetrachloroethene	10.0	10.0	100	45-150	
Toluene	10.0	9.79	98	75-120	
trans-1,3-Dichloropropene	10.0	10.7	107	55-140	
Trichloroethene	10.0	10.5	105	70-125	
Vinyl chloride	10.0	9.95	100	50-145	
Xylenes, Total	20.0	19.8	99	75-130	
Chloroform	10.0	10.3	103	65-135	
Bromochloromethane	10.0	10.2	102	65-130	
Chloroethane	10.0	9.31	93	60-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U1243879.D

Lab ID: LCS 240-177316/9 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.500	0.511	102	71-133	
1,2-Dichloroethane	0.500	0.464	93	80-120	
2-Butanone (MEK)	1.00	0.859	86	49-120	
Benzene	0.500	0.485	97	80-120	
Carbon tetrachloride	0.500	0.402	80	54-122	
Chlorobenzene	0.500	0.483	97	80-120	
Tetrachloroethene	0.500	0.463	93	79-134	
Trichloroethene	0.500	0.531	106	78-130	
Vinyl chloride	0.500	0.493	99	56-120	
Chloroform	0.500	0.481	96	80-123	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM7137.D

Lab ID: MRL 240-176298/5 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.00109	109	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.000903 J	90	70-130	
1,1,2-Trichloroethane	0.00100	0.000924 J	92	70-130	
1,1-Dichloroethane	0.00100	0.00104	104	70-130	
1,1-Dichloroethene	0.00100	0.00100	100	70-130	
1,2-Dichloroethane	0.00100	0.000987 J	99	70-130	
1,2-Dichloropropane	0.00100	0.00102	102	70-130	
2-Butanone (MEK)	0.0100	0.00892 J	89	70-130	
2-Hexanone	0.0100	0.00881 J	88	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00924 J	92	70-130	
Acetone	0.0100	0.00855 J	85	70-130	
Benzene	0.00100	0.00102	102	70-130	
Bromoform	0.00100	0.000768 J	77	70-130	
Bromomethane	0.00100	0.00143	143	70-130	^
Carbon disulfide	0.00100	0.000940 J	94	70-130	
Carbon tetrachloride	0.00100	0.000976 J	98	70-130	
Chlorobenzene	0.00100	0.000987 J	99	70-130	
Chloromethane	0.00100	0.00138	138	70-130	^
cis-1,3-Dichloropropene	0.00100	0.000980 J	98	70-130	
Dibromochloromethane	0.00100	0.000862 J	86	70-130	
Bromodichloromethane	0.00100	0.000930 J	93	70-130	
Ethylbenzene	0.00100	0.000988 J	99	70-130	
Methyl tert-butyl ether	0.00100	0.00101	101	70-130	
Methylene Chloride	0.00100	0.000888 J	89	70-130	
Styrene	0.00100	0.000929 J	93	70-130	
Tetrachloroethene	0.00100	0.00110	110	70-130	
Toluene	0.00100	0.000982 J	98	70-130	
trans-1,3-Dichloropropene	0.00100	0.000921 J	92	70-130	
Trichloroethene	0.00100	0.00105	105	70-130	
Vinyl chloride	0.00100	0.00137	137	70-130	^
Xylenes, Total	0.00200	0.00187 J	93	70-130	
Chloroform	0.00100	0.000987 J	99	70-130	
Bromochloromethane	0.00100	0.00104	104	70-130	
Chloroethane	0.00100	0.00133	133	70-130	^

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM7147.D

Lab ID: MRL 240-176298/15 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.000982 J	98	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.000945 J	95	70-130	
1,1,2-Trichloroethane	0.00100	0.000931 J	93	70-130	
1,1-Dichloroethane	0.00100	0.000968 J	97	70-130	
1,1-Dichloroethene	0.00100	0.000965 J	97	70-130	
1,2-Dichloroethane	0.00100	0.000984 J	98	70-130	
1,2-Dichloropropane	0.00100	0.000928 J	93	70-130	
2-Butanone (MEK)	0.0100	0.00811 J	81	70-130	
2-Hexanone	0.0100	0.00817 J	82	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00909 J	91	70-130	
Acetone	0.0100	0.00706 J	71	70-130	
Benzene	0.00100	0.000970 J	97	70-130	
Bromoform	0.00100	0.000830 J	83	70-130	
Bromomethane	0.00100	0.00136	136	70-130	^
Carbon disulfide	0.00100	0.000787 J	79	70-130	
Carbon tetrachloride	0.00100	0.000935 J	94	70-130	
Chlorobenzene	0.00100	0.000960 J	96	70-130	
Chloromethane	0.00100	0.00130	130	70-130	
cis-1,3-Dichloropropene	0.00100	0.000825 J	83	70-130	
Dibromochloromethane	0.00100	0.000768 J	77	70-130	
Bromodichloromethane	0.00100	0.000958 J	96	70-130	
Ethylbenzene	0.00100	0.00101	101	70-130	
Methyl tert-butyl ether	0.00100	0.000891 J	89	70-130	
Methylene Chloride	0.00100	0.000972 J	97	70-130	
Styrene	0.00100	0.000846 J	85	70-130	
Tetrachloroethene	0.00100	0.00102	102	70-130	
Toluene	0.00100	0.000947 J	95	70-130	
trans-1,3-Dichloropropene	0.00100	0.000794 J	79	70-130	
Trichloroethene	0.00100	0.000992 J	99	70-130	
Vinyl chloride	0.00100	0.00130	130	70-130	
Xylenes, Total	0.00200	0.00189 J	95	70-130	
Chloroform	0.00100	0.000964 J	96	70-130	
Bromochloromethane	0.00100	0.000981 J	98	70-130	
Chloroethane	0.00100	0.00131	131	70-130	^

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U1243876.D

Lab ID: MRL 240-177316/7 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.00100	0.000978 J	98	70-130	
1,2-Dichloroethane	0.00100	0.00118	118	70-130	
2-Butanone (MEK)	0.0100	0.00738 J	74	70-130	
Benzene	0.00100	0.00104	104	70-130	
Carbon tetrachloride	0.00100	0.000795 J	80	70-130	
Chlorobenzene	0.00100	0.00111	111	70-130	
Tetrachloroethene	0.00100	0.00106	106	70-130	
Trichloroethene	0.00100	0.00118	118	70-130	
Vinyl chloride	0.00100	0.00127	127	70-130	
Chloroform	0.00100	0.00110	110	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U1243884.D

Lab ID: MRL 240-177316/14 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.00100	0.00102	102	70-130	
1,2-Dichloroethane	0.00100	0.00105	105	70-130	
2-Butanone (MEK)	0.0100	0.00805 J	80	70-130	
Benzene	0.00100	0.00105	105	70-130	
Carbon tetrachloride	0.00100	0.00105	105	70-130	
Chlorobenzene	0.00100	0.00113	113	70-130	
Tetrachloroethene	0.00100	0.00135	135	70-130	^
Trichloroethene	0.00100	0.00110	110	70-130	
Vinyl chloride	0.00100	0.000875 J	88	70-130	
Chloroform	0.00100	0.00114	114	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water (TCLP) Level: Low Lab File ID: U1243882.D

Lab ID: 240-49236-2 MS Client ID: 079SB-0384-0001-IDW MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.500	0.013 U	0.574	115	67-139	
1,2-Dichloroethane	0.500	0.013 U	0.455	91	80-120	
2-Butanone (MEK)	1.00	0.025 U	0.923	92	49-120	
Benzene	0.500	0.013 U	0.459	92	80-120	
Carbon tetrachloride	0.500	0.013 U	0.338	68	60-120	
Chlorobenzene	0.500	0.013 U	0.467	93	80-120	
Tetrachloroethene	0.500	0.025 U	0.477	95	74-138	
Trichloroethene	0.500	0.013 U	0.515	103	75-134	
Vinyl chloride	0.500	0.013 U	0.508	102	51-120	
Chloroform	0.500	0.013 U	0.470	94	80-124	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water (TCLP) Level: Low Lab File ID: U1243883.D

Lab ID: 240-49236-2 MSD Client ID: 079SB-0384-0001-IDW MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	0.500	0.660	132	14	30	67-139	
1,2-Dichloroethane	0.500	0.471	94	4	30	80-120	
2-Butanone (MEK)	1.00	0.990	99	7	30	49-120	
Benzene	0.500	0.489	98	6	30	80-120	
Carbon tetrachloride	0.500	0.380	76	12	30	60-120	
Chlorobenzene	0.500	0.494	99	6	30	80-120	
Tetrachloroethene	0.500	0.480	96	1	30	74-138	
Trichloroethene	0.500	0.547	109	6	30	75-134	
Vinyl chloride	0.500	0.541	108	6	30	51-120	
Chloroform	0.500	0.501	100	6	30	80-124	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: UXM7138.D Lab Sample ID: MB 240-176298/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 04/14/2015 09:38

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-176298/4	UXM7136.D	04/14/2015 08:52
079SB-0385-0001-SW	240-49236-3	UXM7144.D	04/14/2015 12:04
079SB-0387-0001-RB	240-49236-5	UXM7145.D	04/14/2015 12:27
079SB-0388-0001-TB	240-49236-6	UXM7146.D	04/14/2015 12:50

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: U1243878.D Lab Sample ID: LB 240-176667/1-A

Matrix: Solid (TCLP) Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 04/21/2015 18:23

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-177316/9	U1243879.D	04/21/2015 18:47
079SB-0383-0001-IDW	240-49236-1	U1243880.D	04/21/2015 19:11
079SB-0384-0001-IDW	240-49236-2	U1243881.D	04/21/2015 19:36
079SB-0384-0001-IDW MS	240-49236-2 MS	U1243882.D	04/21/2015 19:59
079SB-0384-0001-IDW MSD	240-49236-2 MSD	U1243883.D	04/21/2015 20:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: BFB2872.D BFB Injection Date: 02/28/2015

Instrument ID: A3UX12 BFB Injection Time: 12:17

Analysis Batch No.: 170010

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.9	(1.0)1
174	50.0 - 120.00 % of mass 95	85.0	
175	5.0 - 9.0 % of mass 174	6.3	(7.5)1
176	95.0 - 101.0 % of mass 174	83.7	(98.4)1
177	5.0 - 9.0 % of mass 176	5.5	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-170010/3	U1243083.D	02/28/2015	12:41
	STD8260 240-170010/4	U1243084.D	02/28/2015	13:05
	STD8260 240-170010/5	U1243085.D	02/28/2015	13:30
	STD8260 240-170010/6	U1243086.D	02/28/2015	13:55
	STD8260 240-170010/7	U1243087.D	02/28/2015	14:19
	STD8260 240-170010/8	U1243088.D	02/28/2015	14:44
	ICV 240-170010/16	U1243096.D	02/28/2015	18:00
	ICV 240-170010/17	U1243097.D	02/28/2015	18:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: BFB2920.D BFB Injection Date: 04/21/2015

Instrument ID: A3UX12 BFB Injection Time: 16:00

Analysis Batch No.: 177316

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.2	
75	30.0 - 60.0 % of mass 95	47.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.6	(0.6)1
174	50.0 - 120.00 % of mass 95	91.5	
175	5.0 - 9.0 % of mass 174	6.4	(6.9)1
176	95.0 - 101.0 % of mass 174	87.3	(95.4)1
177	5.0 - 9.0 % of mass 176	5.6	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-177316/3	U1243873.D	04/21/2015	16:23
	MRL 240-177316/7	U1243876.D	04/21/2015	17:36
	LB 240-176667/1-A	U1243878.D	04/21/2015	18:23
	LCS 240-177316/9	U1243879.D	04/21/2015	18:47
079SB-0383-0001-IDW	240-49236-1	U1243880.D	04/21/2015	19:11
079SB-0384-0001-IDW	240-49236-2	U1243881.D	04/21/2015	19:36
079SB-0384-0001-IDW MS	240-49236-2 MS	U1243882.D	04/21/2015	19:59
079SB-0384-0001-IDW MSD	240-49236-2 MSD	U1243883.D	04/21/2015	20:23
	MRL 240-177316/14	U1243884.D	04/21/2015	20:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: BFB4271.D BFB Injection Date: 04/08/2015

Instrument ID: A3UX16 BFB Injection Time: 12:22

Analysis Batch No.: 175604

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.2	
75	30.0 - 60.0 % of mass 95	43.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	89.8	
175	5.0 - 9.0 % of mass 174	5.9	(6.6)1
176	95.0 - 101.0 % of mass 174	87.4	(97.3)1
177	5.0 - 9.0 % of mass 176	5.5	(6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-175604/2	UXM7066.D	04/08/2015	12:59
	STD8260 240-175604/3	UXM7067.D	04/08/2015	13:22
	STD8260 240-175604/4	UXM7068.D	04/08/2015	13:44
	STD8260 240-175604/5	UXM7069.D	04/08/2015	14:07
	STD8260 240-175604/6	UXM7070.D	04/08/2015	14:30
	STD8260 240-175604/7	UXM7071.D	04/08/2015	14:53
	ICV 240-175604/8	UXM7072.D	04/08/2015	15:15

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: BFB4274.D BFB Injection Date: 04/14/2015

Instrument ID: A3UX16 BFB Injection Time: 07:39

Analysis Batch No.: 176298

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	81.0	
175	5.0 - 9.0 % of mass 174	5.9	(7.3)1
176	95.0 - 101.0 % of mass 174	77.3	(95.5)1
177	5.0 - 9.0 % of mass 176	5.1	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-176298/2	UXM7134.D	04/14/2015	08:07
	CCV 240-176298/3	UXM7135.D	04/14/2015	08:30
	LCS 240-176298/4	UXM7136.D	04/14/2015	08:52
	MRL 240-176298/5	UXM7137.D	04/14/2015	09:15
	MB 240-176298/6	UXM7138.D	04/14/2015	09:38
079SB-0385-0001-SW	240-49236-3	UXM7144.D	04/14/2015	12:04
079SB-0387-0001-RB	240-49236-5	UXM7145.D	04/14/2015	12:27
079SB-0388-0001-TB	240-49236-6	UXM7146.D	04/14/2015	12:50
	MRL 240-176298/15	UXM7147.D	04/14/2015	13:13

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD8260 240-170010/6 Date Analyzed: 02/28/2015 13:55

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1243086.D Heated Purge: (Y/N) N

Calibration ID: 27084

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		803447	5.41	641741	8.22	344283	10.61
UPPER LIMIT		1606894	5.91	1283482	8.72	688566	11.11
LOWER LIMIT		401724	4.91	320871	7.72	172142	10.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-170010/16		888790	5.40	715189	8.22	369021	10.61
ICV 240-170010/17		839155	5.40	686344	8.22	364039	10.61
CCV 240-177316/3		697332	5.41	558035	8.22	273878	10.61
MRL 240-177316/7		656818	5.40	511509	8.22	245796	10.61
LB 240-176667/1-A MB		669679	5.40	534923	8.22	264274	10.61
LCS 240-177316/9		705683	5.40	569446	8.22	285023	10.61
240-49236-1	079SB-0383-0001-IDW	692866	5.40	538917	8.22	260194	10.61
240-49236-2	079SB-0384-0001-IDW	649207	5.40	508007	8.22	241390	10.61
240-49236-2 MS	079SB-0384-0001-IDW MS	679290	5.40	534328	8.22	253943	10.61
240-49236-2 MSD	079SB-0384-0001-IDW MSD	624840	5.41	509057	8.22	236727	10.61
MRL 240-177316/14		704959	5.40	562524	8.22	268859	10.61

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD8260 240-175604/4 Date Analyzed: 04/08/2015 13:44

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM7068.D Heated Purge: (Y/N) N

Calibration ID: 27788

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1548065	5.59	1098353	8.28	639037	10.51
UPPER LIMIT		3096130	6.09	2196706	8.78	1278074	11.01
LOWER LIMIT		774033	5.09	549177	7.78	319519	10.01
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-175604/8		1626133	5.59	1148226	8.28	645335	10.51
CCV 240-176298/2		1564934	5.59	1124476	8.28	663043	10.51
CCV 240-176298/3		1576730	5.59	1149428	8.28	608763	10.51
LCS 240-176298/4		1542337	5.59	1139963	8.28	636499	10.51
MRL 240-176298/5		1491885	5.59	1107792	8.28	606528	10.51
MB 240-176298/6		1520465	5.59	1113789	8.28	583965	10.51
240-49236-3	079SB-0385-0001-SW	1460075	5.59	1078031	8.28	576988	10.51
240-49236-5	079SB-0387-0001-RB	1487206	5.59	1082482	8.28	587177	10.51
240-49236-6	079SB-0388-0001-TB	1487733	5.59	1085480	8.28	574540	10.51
MRL 240-176298/15		1496350	5.59	1092798	8.28	604321	10.51

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW | Lab Sample ID: 240-49236-1

Matrix: Solid (TCLP) | Lab File ID: U1243880.D

Analysis Method: 8260B | Date Collected: 04/10/2015 08:00

Sample wt/vol: 0.2(mL) | Date Analyzed: 04/21/2015 19:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 177316 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.013	U	0.025	0.013	0.0095
107-06-2	1,2-Dichloroethane	0.013	U	0.025	0.013	0.011
78-93-3	2-Butanone (MEK)	0.025	U	0.25	0.025	0.029
71-43-2	Benzene	0.013	U	0.025	0.013	0.0065
56-23-5	Carbon tetrachloride	0.013	U	0.025	0.013	0.0065
108-90-7	Chlorobenzene	0.013	U	0.025	0.013	0.0075
67-66-3	Chloroform	0.013	U	0.025	0.013	0.0080
127-18-4	Tetrachloroethene	0.025	U	0.025	0.025	0.015
79-01-6	Trichloroethene	0.013	U	0.025	0.013	0.0085
75-01-4	Vinyl chloride	0.013	U	0.025	0.013	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		80-121
460-00-4	4-Bromofluorobenzene (Surr)	77		70-124
1868-53-7	Dibromofluoromethane (Surr)	90		84-128

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243880.D
Lims ID: 240-49236-B-1-H Lab Sample ID: 240-49236-1
Client ID: 079SB-0383-0001-IDW
Sample Type: Client
Inject. Date: 21-Apr-2015 19:11:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-010
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 19:38:54 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 19:38:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	692866	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	538917	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	93	260194	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	93	155645	14.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.109	0.000	91	172968	14.1	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	568932	14.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	93	195315	12.8	
11 Vinyl chloride	62		1.902				ND	
22 1,1-Dichloroethene	61		2.943				ND	
40 2-Butanone (MEK)	43		4.411				ND	
47 Chloroform	83		4.671				ND	
51 Carbon tetrachloride	117		5.002				ND	
53 Benzene	78		5.168				ND	
54 1,2-Dichloroethane	62		5.180				ND	
58 Trichloroethene	130		5.724				ND	
75 Tetrachloroethene	166		7.416				ND	
82 Chlorobenzene	112		8.244				ND	

Reagents:

vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

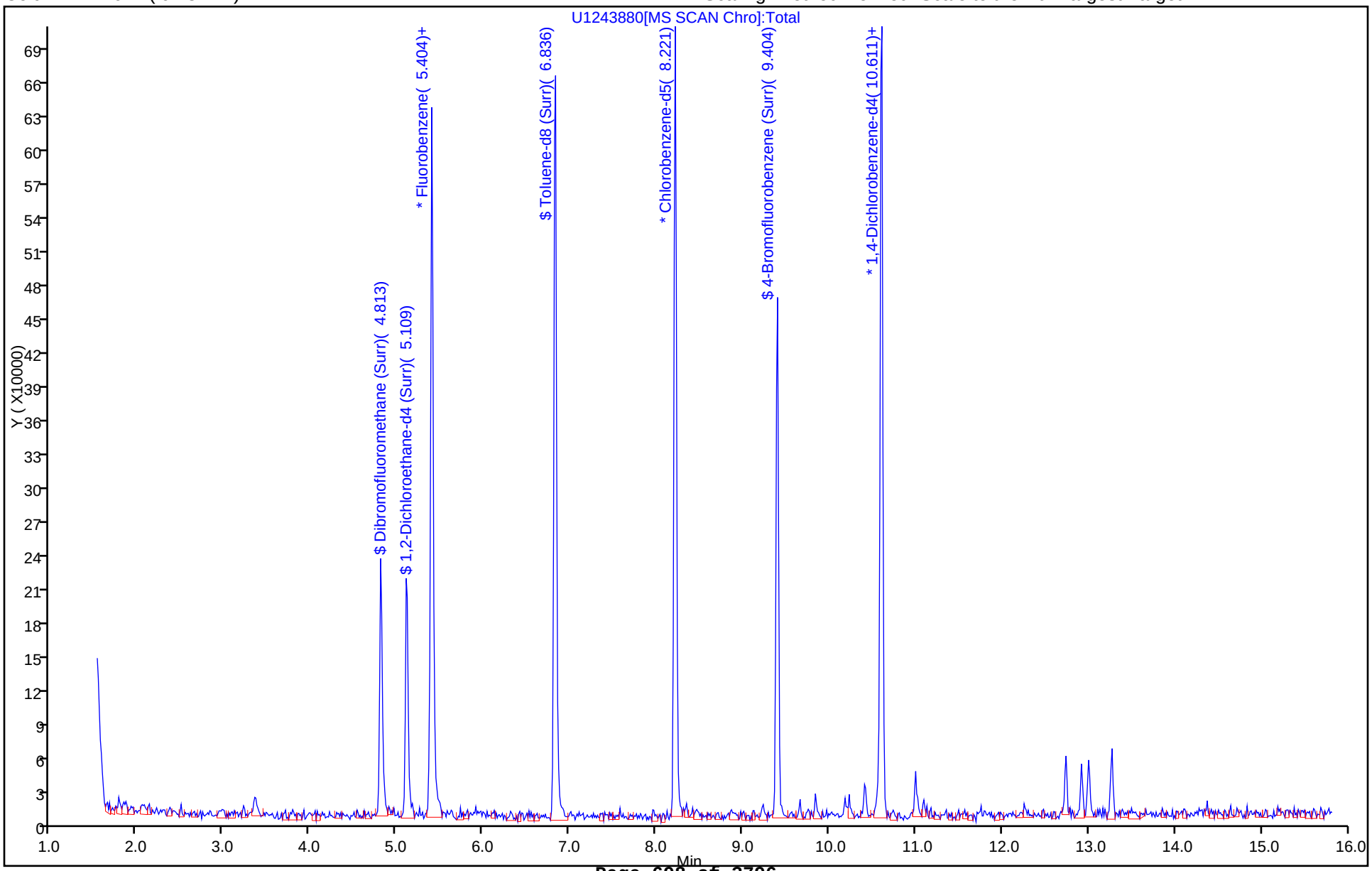
Report Date: 21-Apr-2015 19:38:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243880.D

Injection Date:	21-Apr-2015 19:11:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-49236-B-1-H	Lab Sample ID:	240-49236-1	Worklist Smp#:	10
Client ID:	079SB-0383-0001-IDW				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW | Lab Sample ID: 240-49236-2

Matrix: Water (TCLP) | Lab File ID: U1243881.D

Analysis Method: 8260B | Date Collected: 04/10/2015 08:30

Sample wt/vol: 0.2(mL) | Date Analyzed: 04/21/2015 19:36

Soil Aliquot Vol: 0.2 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 177316 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.013	U	0.025	0.013	0.0095
107-06-2	1,2-Dichloroethane	0.013	U	0.025	0.013	0.011
78-93-3	2-Butanone (MEK)	0.025	U	0.25	0.025	0.029
71-43-2	Benzene	0.013	U	0.025	0.013	0.0065
56-23-5	Carbon tetrachloride	0.013	U	0.025	0.013	0.0065
108-90-7	Chlorobenzene	0.013	U	0.025	0.013	0.0075
67-66-3	Chloroform	0.013	U	0.025	0.013	0.0080
127-18-4	Tetrachloroethene	0.025	U	0.025	0.025	0.015
79-01-6	Trichloroethene	0.013	U	0.025	0.013	0.0085
75-01-4	Vinyl chloride	0.013	U	0.025	0.013	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-121
460-00-4	4-Bromofluorobenzene (Surr)	85		70-124
1868-53-7	Dibromofluoromethane (Surr)	96		84-128

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243881.D
Lims ID: 240-49236-F-2-E Lab Sample ID: 240-49236-2
Client ID: 079SB-0384-0001-IDW
Sample Type: Client
Inject. Date: 21-Apr-2015 19:36:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-011
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 20:11:07 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 20:11:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	100	649207	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	82	508007	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	93	241390	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	92	156089	15.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.109	0.011	89	177753	15.4	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	93	620883	16.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	94	203072	14.1	
11 Vinyl chloride	62		1.902				ND	
22 1,1-Dichloroethene	61		2.943				ND	
40 2-Butanone (MEK)	43		4.411				ND	
47 Chloroform	83		4.671				ND	
51 Carbon tetrachloride	117		5.002				ND	
53 Benzene	78		5.168				ND	
54 1,2-Dichloroethane	62		5.180				ND	
58 Trichloroethene	130		5.724				ND	
75 Tetrachloroethene	166		7.416				ND	
82 Chlorobenzene	112		8.244				ND	

Reagents:

vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

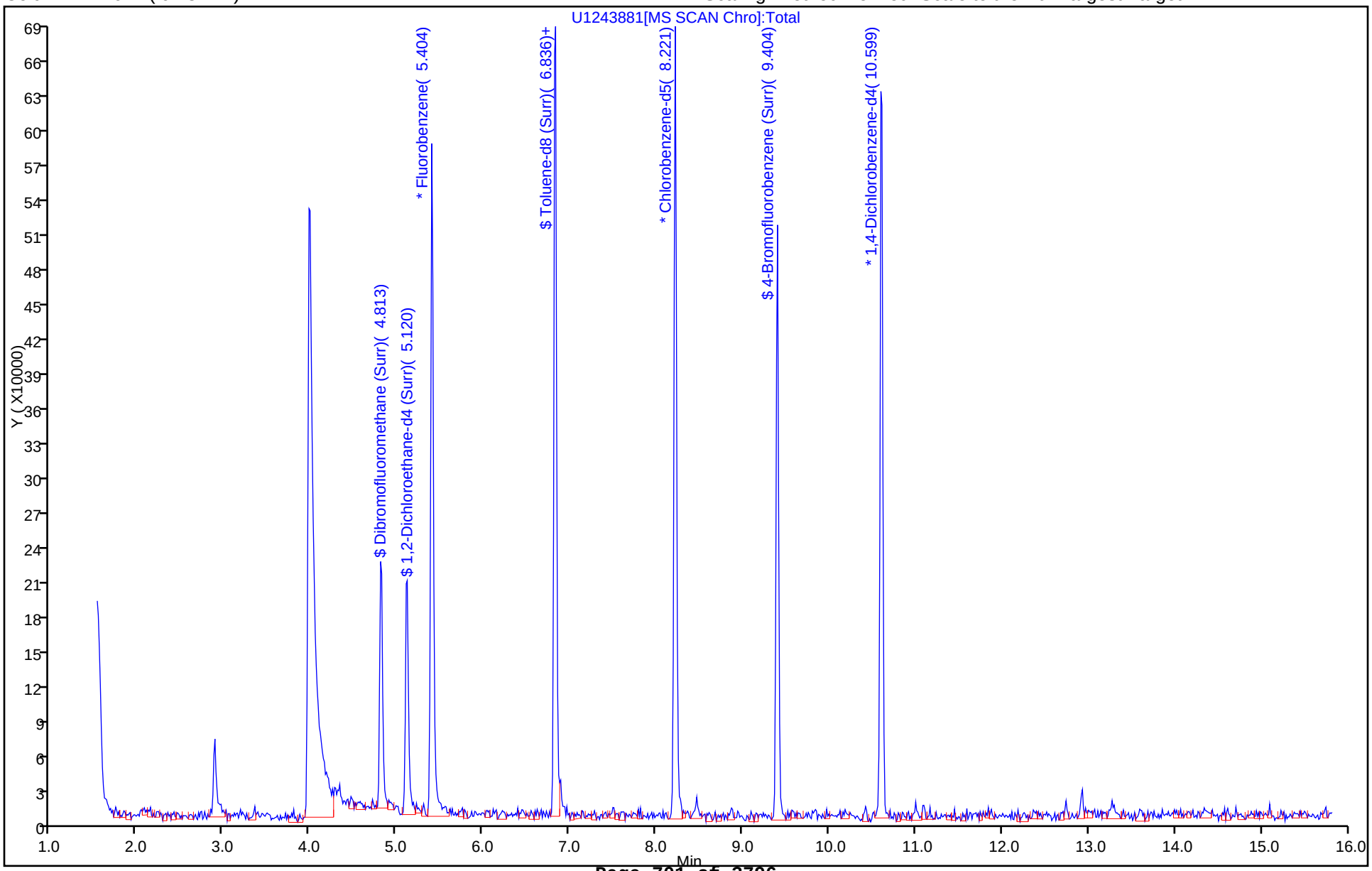
Report Date: 21-Apr-2015 20:11:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243881.D

Injection Date:	21-Apr-2015 19:36:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-49236-F-2-E	Lab Sample ID:	240-49236-2	Worklist Smp#:	11
Client ID:	079SB-0384-0001-IDW				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW | Lab Sample ID: 240-49236-3

Matrix: Water | Lab File ID: UXM7144.D

Analysis Method: 8260B | Date Collected: 04/10/2015 08:45

Sample wt/vol: 5(mL) | Date Analyzed: 04/14/2015 12:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 176298 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	1.0	U	1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	2.0	U	10	2.0	0.53
591-78-6	2-Hexanone	2.0	U	10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	10	2.0	0.99
67-64-1	Acetone	1.9	J	10	2.0	0.94
71-43-2	Benzene	1.0	U	1.0	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	1.0	0.46
124-48-1	Dibromochloromethane	1.0	U	1.0	1.0	0.43
75-27-4	Bromodichloromethane	1.0	U	1.0	1.0	0.29
100-41-4	Ethylbenzene	1.0	U	1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	0.50	U	1.0	0.50	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	1.0	0.33
100-42-5	Styrene	0.50	U	1.0	0.50	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	1.0	0.22
75-01-4	Vinyl chloride	1.0	U	1.0	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	2.0	0.52
67-66-3	Chloroform	1.0	U	1.0	1.0	0.25
74-97-5	Bromochloromethane	1.0	U	1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	1.0	U	1.0	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW Lab Sample ID: 240-49236-3

Matrix: Water Lab File ID: UXM7144.D

Analysis Method: 8260B Date Collected: 04/10/2015 08:45

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2015 12:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176298 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-120
460-00-4	4-Bromofluorobenzene (Surr)	95		75-120
1868-53-7	Dibromofluoromethane (Surr)	96		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7144.D
Lims ID: 240-49236-B-3 Lab Sample ID: 240-49236-3
Client ID: 079SB-0385-0001-SW
Sample Type: Client
Inject. Date: 14-Apr-2015 12:04:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-012
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:55 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: quayler Date: 14-Apr-2015 12:43:22

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.588	5.588	0.000	99	1460075	10.0	
*	2 Chlorobenzene-d5	117	8.279	8.279	0.000	84	1078031	10.0	
*	3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	576988	10.0	
$	4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	94	318855	10.9	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.303	5.291	0.012	0	369057	11.5	
$	6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1391816	10.8	
$	7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	498825	10.8	
	10 Chloromethane	50		1.769				ND	
	11 Vinyl chloride	62		1.888				ND	
	13 Bromomethane	94		2.232				ND	
	14 Chloroethane	64		2.327				ND	
	19 1,1-Dichloroethene	96		3.050				ND	
	21 Acetone	43	3.085	3.085	0.000	98	17019	1.93	
	24 Carbon disulfide	76		3.263				ND	
	28 Methylene Chloride	84		3.489				ND	
	31 Methyl tert-butyl ether	73		3.738				ND	
	32 trans-1,2-Dichloroethene	96		3.738				ND	
	34 1,1-Dichloroethane	63		4.105				ND	
	40 2-Butanone (MEK)	43		4.603				ND	
	39 cis-1,2-Dichloroethene	96		4.603				ND	
	45 Chlorobromomethane	128		4.805				ND	
	47 Chloroform	83		4.864				ND	
	48 1,1,1-Trichloroethane	97		5.042				ND	
	51 Carbon tetrachloride	117		5.196				ND	
	53 1,2-Dichloroethane	62		5.362				ND	
	54 Benzene	78		5.362				ND	
	58 Trichloroethene	130		5.908				ND	
	61 1,2-Dichloropropane	63		6.098				ND	
	65 Dichlorobromomethane	83		6.323				ND	
	68 cis-1,3-Dichloropropene	75		6.714				ND	
	69 4-Methyl-2-pentanone (MIBK	43		6.833				ND	
	70 Toluene	91		7.022				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
71 trans-1,3-Dichloropropene	75		7.188				ND	
73 1,1,2-Trichloroethane	97		7.366				ND	
75 Tetrachloroethene	164		7.521				ND	
76 2-Hexanone	43		7.580				ND	
78 Chlorodibromomethane	129		7.734				ND	
80 Ethylene Dibromide	107		7.841				ND	
82 Chlorobenzene	112		8.303				ND	
84 Ethylbenzene	106		8.398				ND	
85 m-Xylene & p-Xylene	106		8.505				ND	
86 o-Xylene	106		8.884				ND	
87 Styrene	104		8.896				ND	
88 Bromoform	173		9.074				ND	
92 1,1,2,2-Tetrachloroethane	83		9.501				ND	
S 131 1,2-Dichloroethene, Total	96		1.140				ND	
S 133 Xylenes, Total	106		16.530				ND	

Reagents:

VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added: 0.00	Units:	Run Reagent

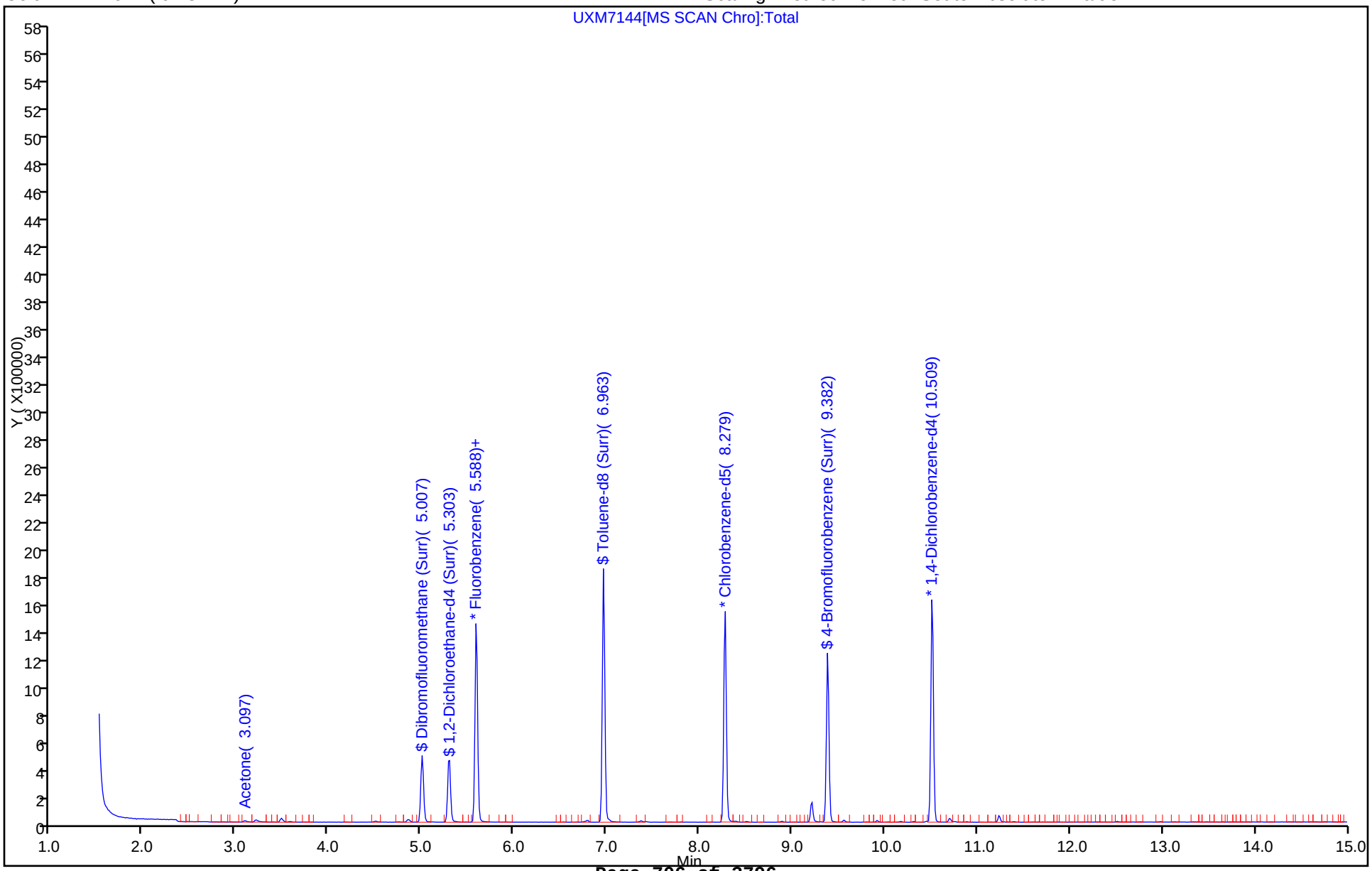
Report Date: 14-Apr-2015 13:41:08 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7144.D

Injection Date:	14-Apr-2015 12:04:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	240-49236-B-3	Lab Sample ID:	240-49236-3	Worklist Smp#:	12
Client ID:	079SB-0385-0001-SW				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value

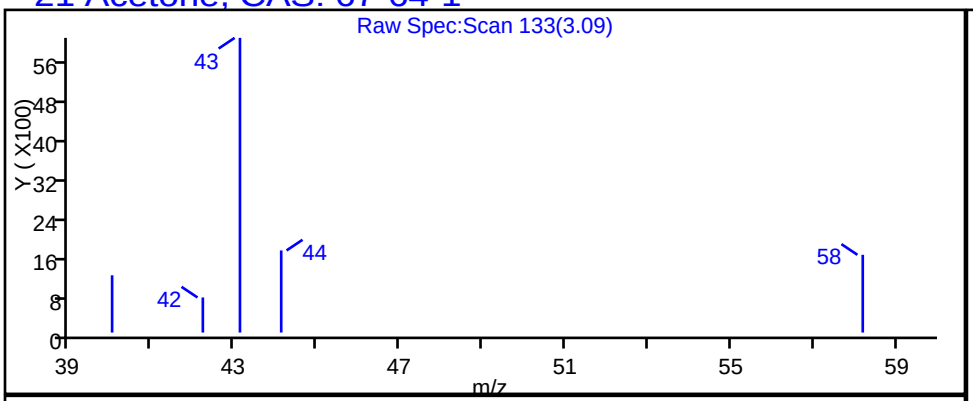


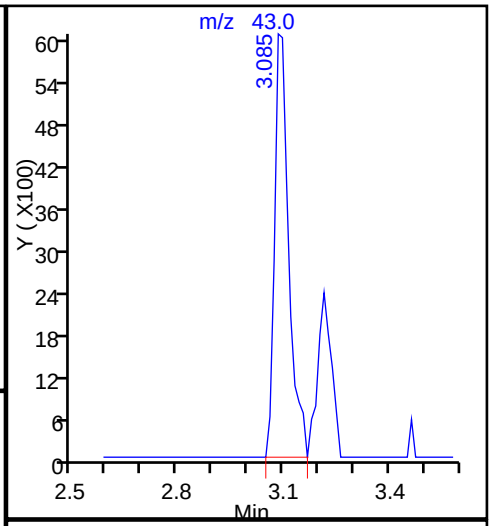
Report Date: 14-Apr-2015 13:41:08 Chrom Revision: 2.2 13-Mar-2015 11:20:44

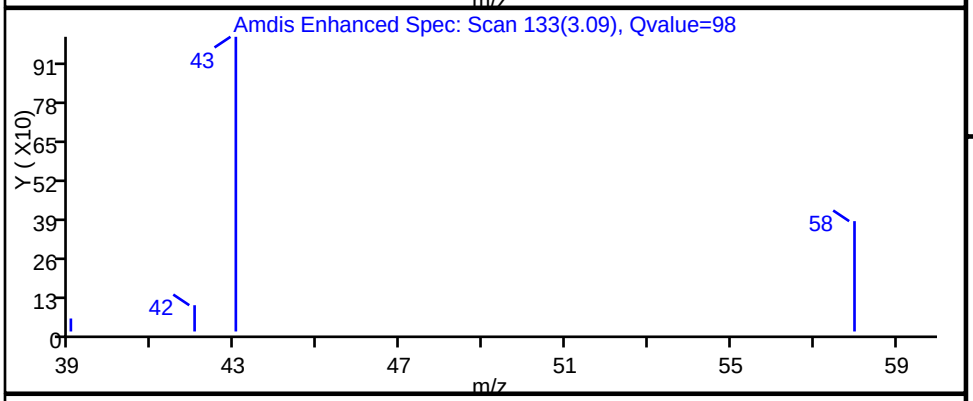
TestAmerica Canton

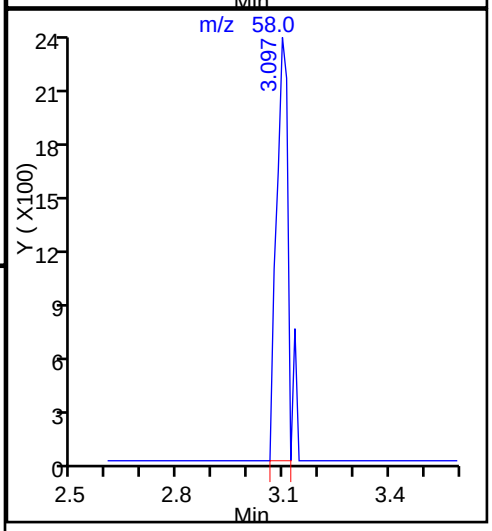
Data File:	\\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7144.D		
Injection Date:	14-Apr-2015 12:04:30	Instrument ID:	A3UX16
Lims ID:	240-49236-B-3	Lab Sample ID:	240-49236-3
Client ID:	079SB-0385-0001-SW		
Operator ID:	1904	ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

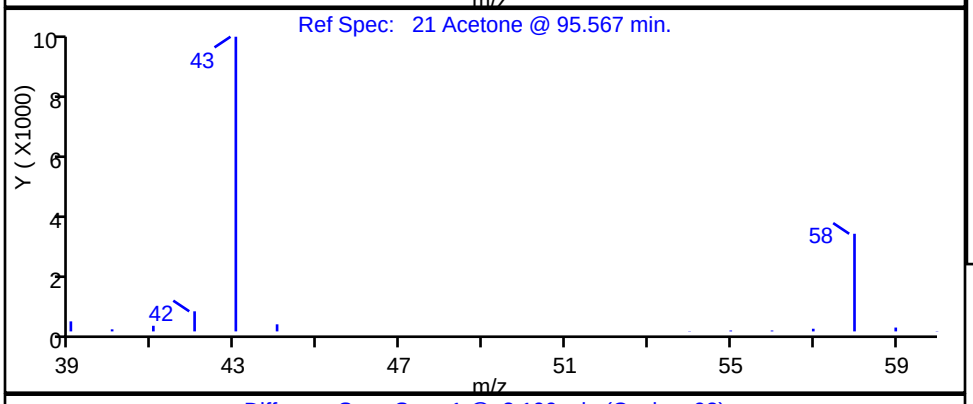
21 Acetone, CAS: 67-64-1

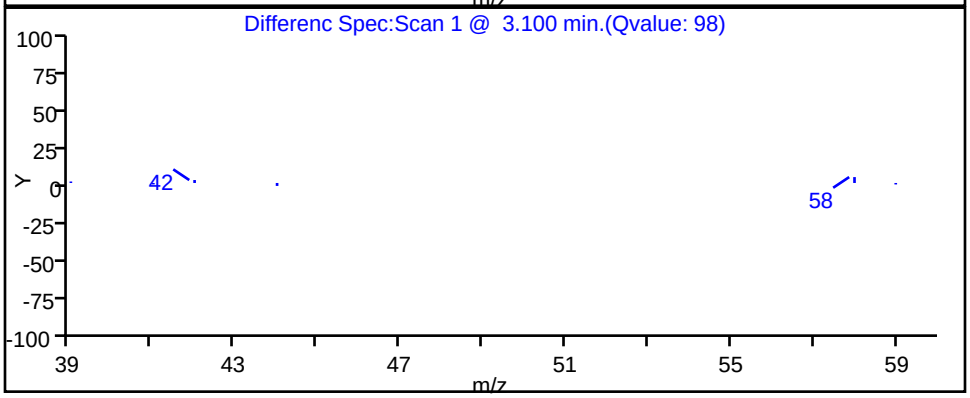












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0387-0001-RB | Lab Sample ID: 240-49236-5

Matrix: Water | Lab File ID: UXM7145.D

Analysis Method: 8260B | Date Collected: 04/10/2015 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/14/2015 12:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 176298 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	1.0	U	1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	2.0	U	10	2.0	0.53
591-78-6	2-Hexanone	2.0	U	10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	10	2.0	0.99
67-64-1	Acetone	1.1	J	10	2.0	0.94
71-43-2	Benzene	1.0	U	1.0	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	1.0	0.46
124-48-1	Dibromochloromethane	1.0	U	1.0	1.0	0.43
75-27-4	Bromodichloromethane	1.0	U	1.0	1.0	0.29
100-41-4	Ethylbenzene	1.0	U	1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	0.50	U	1.0	0.50	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	1.0	0.33
100-42-5	Styrene	0.50	U	1.0	0.50	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	1.0	0.22
75-01-4	Vinyl chloride	1.0	U	1.0	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	2.0	0.52
67-66-3	Chloroform	1.0	U	1.0	1.0	0.25
74-97-5	Bromochloromethane	1.0	U	1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	1.0	U	1.0	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0387-0001-RB Lab Sample ID: 240-49236-5

Matrix: Water Lab File ID: UXM7145.D

Analysis Method: 8260B Date Collected: 04/10/2015 09:00

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2015 12:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176298 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-120
460-00-4	4-Bromofluorobenzene (Surr)	97		75-120
1868-53-7	Dibromofluoromethane (Surr)	97		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7145.D
Lims ID: 240-49236-B-5 Lab Sample ID: 240-49236-5
Client ID: 079SB-0387-0001-RB
Sample Type: Client
Inject. Date: 14-Apr-2015 12:27:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-013
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:55 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: quayler Date: 14-Apr-2015 12:56:35

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.587	5.588	-0.001	99	1487206	10.0	
*	2 Chlorobenzene-d5	117	8.279	8.279	0.000	85	1082482	10.0	
*	3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	95	587177	10.0	
$	4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	330259	11.1	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	367508	11.2	
$	6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1426704	11.0	
$	7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	511474	11.0	
	10 Chloromethane	50		1.769				ND	
	11 Vinyl chloride	62		1.888				ND	
	13 Bromomethane	94		2.232				ND	
	14 Chloroethane	64		2.327				ND	
	19 1,1-Dichloroethene	96		3.050				ND	
	21 Acetone	43	3.097	3.085	0.012	95	10235	1.14	
	24 Carbon disulfide	76		3.263				ND	
	28 Methylene Chloride	84		3.489				ND	
	31 Methyl tert-butyl ether	73		3.738				ND	
	32 trans-1,2-Dichloroethene	96		3.738				ND	
	34 1,1-Dichloroethane	63		4.105				ND	
	40 2-Butanone (MEK)	43		4.603				ND	
	39 cis-1,2-Dichloroethene	96		4.603				ND	
	45 Chlorobromomethane	128		4.805				ND	
	47 Chloroform	83		4.864				ND	
	48 1,1,1-Trichloroethane	97		5.042				ND	
	51 Carbon tetrachloride	117		5.196				ND	
	53 1,2-Dichloroethane	62		5.362				ND	
	54 Benzene	78		5.362				ND	
	58 Trichloroethene	130		5.908				ND	
	61 1,2-Dichloropropane	63		6.098				ND	
	65 Dichlorobromomethane	83		6.323				ND	
	68 cis-1,3-Dichloropropene	75		6.714				ND	
	69 4-Methyl-2-pentanone (MIBK	43		6.833				ND	
	70 Toluene	91		7.022				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
71 trans-1,3-Dichloropropene	75		7.188				ND	
73 1,1,2-Trichloroethane	97		7.366				ND	
75 Tetrachloroethene	164		7.521				ND	
76 2-Hexanone	43		7.580				ND	
78 Chlorodibromomethane	129		7.734				ND	
80 Ethylene Dibromide	107		7.841				ND	
82 Chlorobenzene	112		8.303				ND	
84 Ethylbenzene	106		8.398				ND	
85 m-Xylene & p-Xylene	106		8.505				ND	
86 o-Xylene	106		8.884				ND	
87 Styrene	104		8.896				ND	
88 Bromoform	173		9.074				ND	
92 1,1,2,2-Tetrachloroethane	83		9.501				ND	
S 131 1,2-Dichloroethene, Total	96		1.140				ND	
S 133 Xylenes, Total	106		16.530				ND	

Reagents:

VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

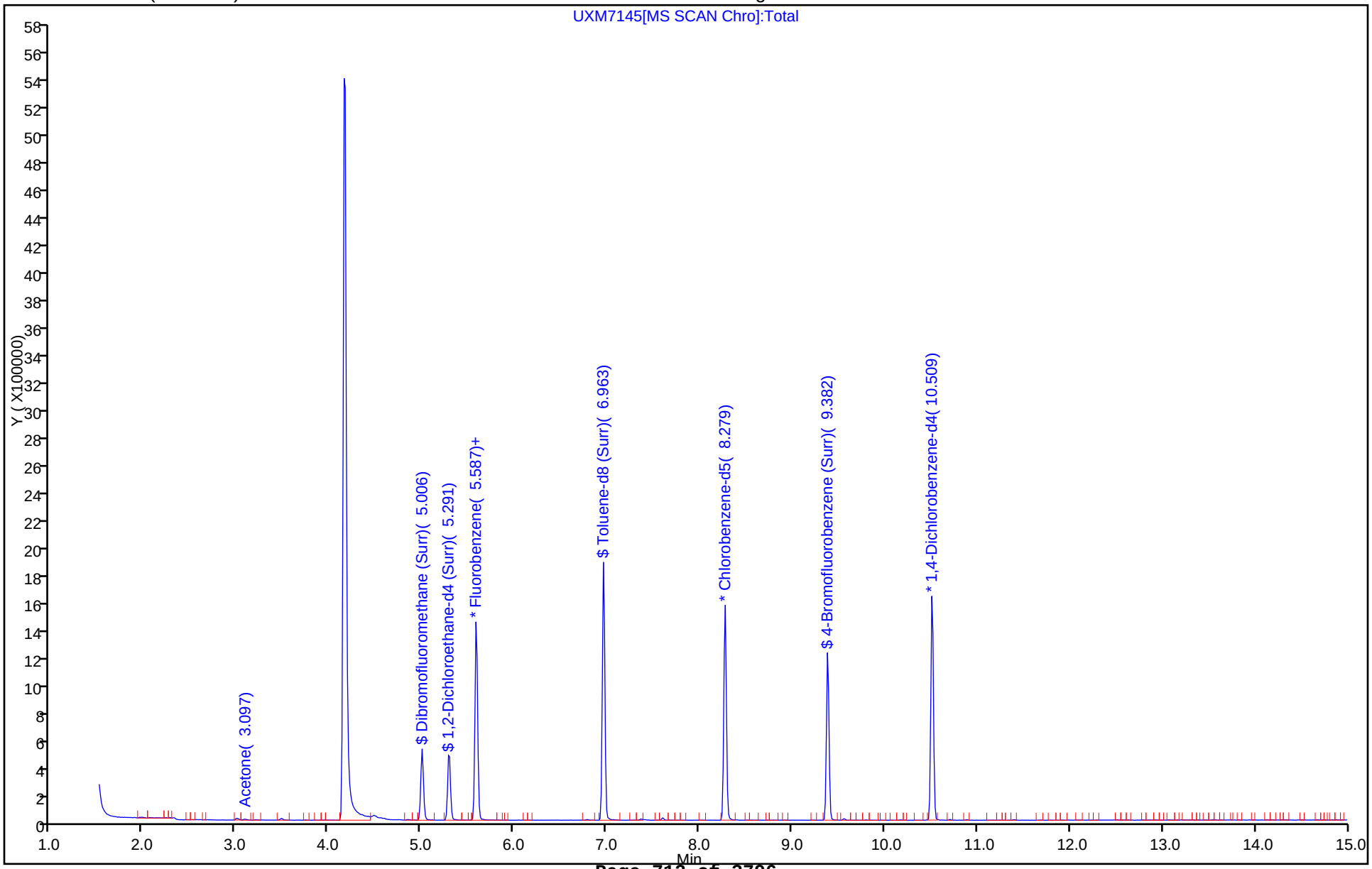
Report Date: 14-Apr-2015 13:41:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7145.D

Injection Date:	14-Apr-2015 12:27:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	240-49236-B-5	Lab Sample ID:	240-49236-5	Worklist Smp#:	13
Client ID:	079SB-0387-0001-RB				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



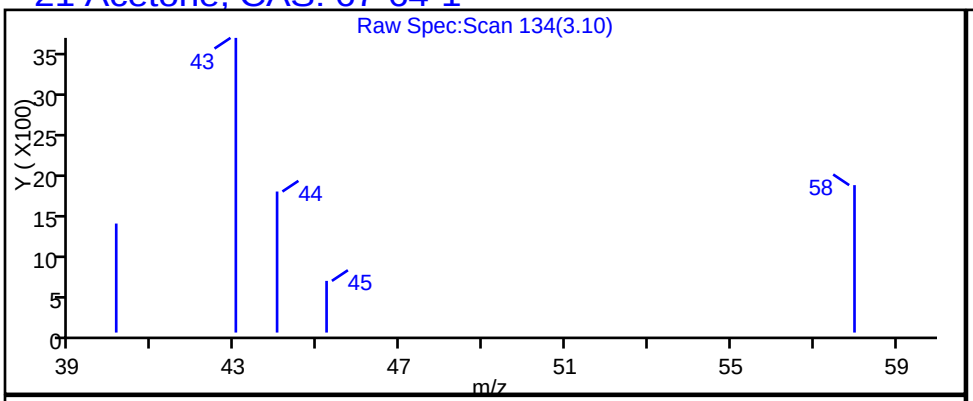
Report Date: 14-Apr-2015 13:41:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

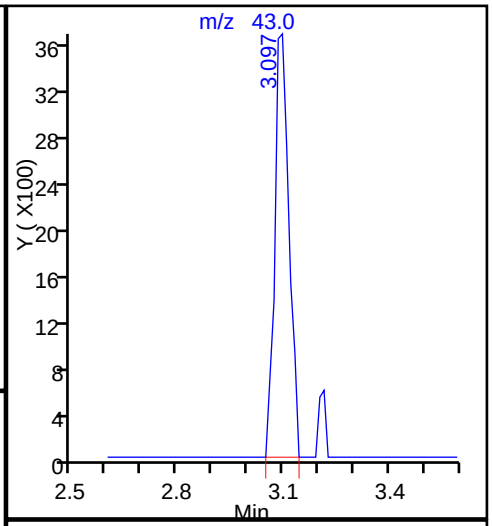
TestAmerica Canton

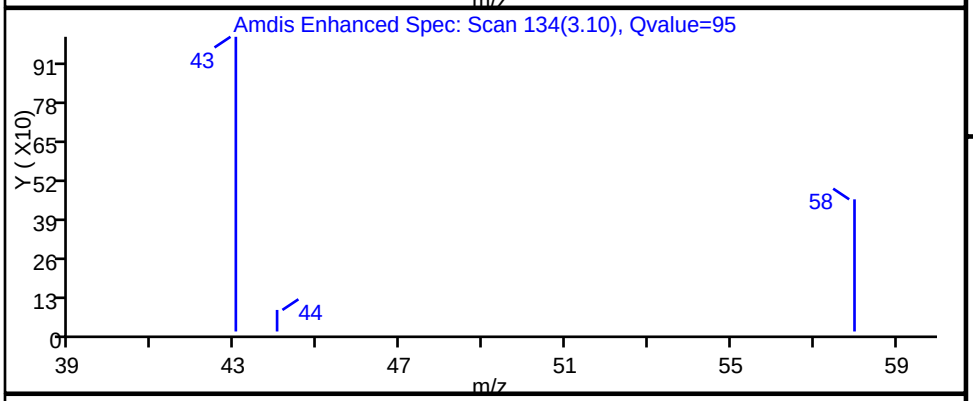
Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7145.D

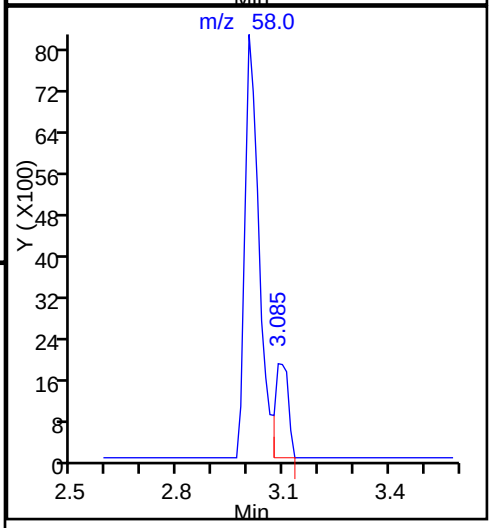
Injection Date:	14-Apr-2015 12:27:30	Instrument ID:	A3UX16
Lims ID:	240-49236-B-5	Lab Sample ID:	240-49236-5
Client ID:	079SB-0387-0001-RB		
Operator ID:	1904	ALS Bottle#:	12 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

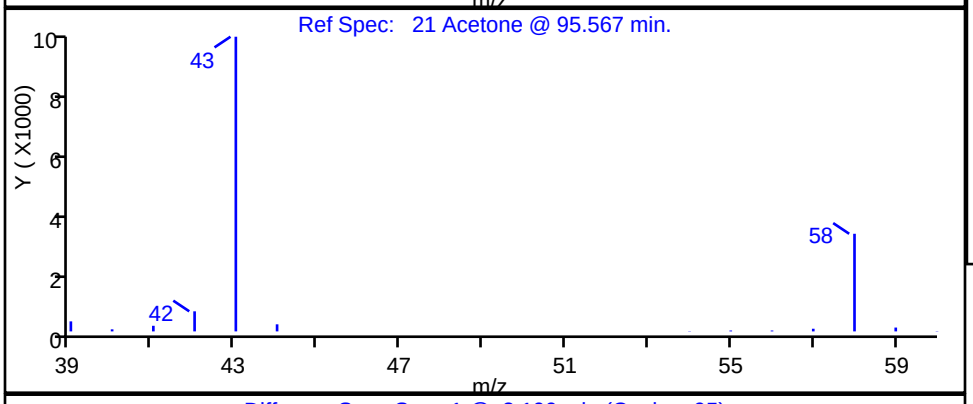
21 Acetone, CAS: 67-64-1

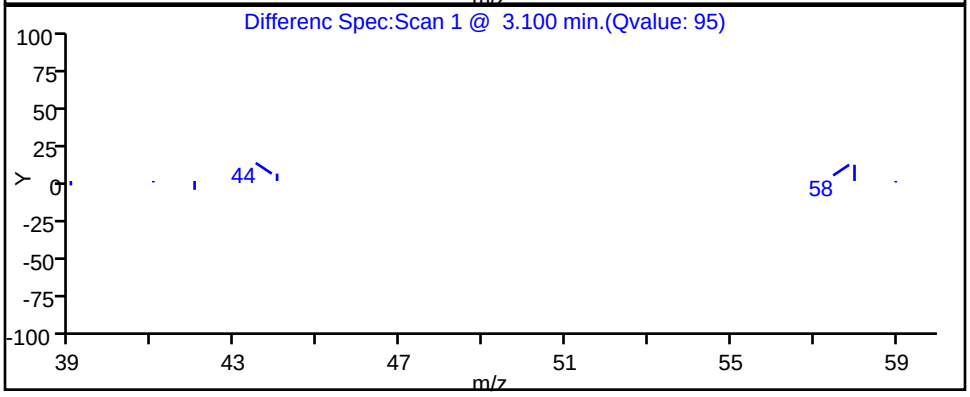












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0388-0001-TB | Lab Sample ID: 240-49236-6

Matrix: Water | Lab File ID: UXM7146.D

Analysis Method: 8260B | Date Collected: 04/10/2015 07:30

Sample wt/vol: 5(mL) | Date Analyzed: 04/14/2015 12:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 176298 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	1.0	U	1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	2.0	U	10	2.0	0.53
591-78-6	2-Hexanone	2.0	U	10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	10	2.0	0.99
67-64-1	Acetone	6.5	J	10	2.0	0.94
71-43-2	Benzene	1.0	U	1.0	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	1.0	0.46
124-48-1	Dibromochloromethane	1.0	U	1.0	1.0	0.43
75-27-4	Bromodichloromethane	1.0	U	1.0	1.0	0.29
100-41-4	Ethylbenzene	1.0	U	1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	0.50	U	1.0	0.50	0.20
75-09-2	Methylene Chloride	3.3		1.0	1.0	0.33
100-42-5	Styrene	0.50	U	1.0	0.50	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	1.0	0.22
75-01-4	Vinyl chloride	1.0	U	1.0	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	2.0	0.52
67-66-3	Chloroform	1.0	U	1.0	1.0	0.25
74-97-5	Bromochloromethane	1.0	U	1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	1.0	U	1.0	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0388-0001-TB Lab Sample ID: 240-49236-6

Matrix: Water Lab File ID: UXM7146.D

Analysis Method: 8260B Date Collected: 04/10/2015 07:30

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2015 12:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176298 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-120
460-00-4	4-Bromofluorobenzene (Surr)	95		75-120
1868-53-7	Dibromofluoromethane (Surr)	97		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7146.D
Lims ID: 240-49236-B-6 Lab Sample ID: 240-49236-6
Client ID: 079SB-0388-0001-TB
Sample Type: Client
Inject. Date: 14-Apr-2015 12:50:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-014
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:55 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: quayler Date: 14-Apr-2015 13:09:39

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.588	5.588	0.000	99	1487733	10.0	
*	2 Chlorobenzene-d5	117	8.279	8.279	0.000	85	1085480	10.0	
*	3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	574540	10.0	
$	4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	329365	11.1	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	366110	11.2	
$	6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1431431	11.0	
$	7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	502729	10.8	
	10 Chloromethane	50		1.769				ND	
	11 Vinyl chloride	62		1.888				ND	
	13 Bromomethane	94		2.232				ND	
	14 Chloroethane	64		2.327				ND	
	19 1,1-Dichloroethene	96		3.050				ND	
	21 Acetone	43	3.085	3.085	0.000	100	58282	6.48	
	24 Carbon disulfide	76		3.263				ND	
	28 Methylene Chloride	84	3.489	3.489	0.000	88	132671	3.29	
	31 Methyl tert-butyl ether	73		3.738				ND	
	32 trans-1,2-Dichloroethene	96		3.738				ND	
	34 1,1-Dichloroethane	63		4.105				ND	
	40 2-Butanone (MEK)	43		4.603				ND	
	39 cis-1,2-Dichloroethene	96		4.603				ND	
	45 Chlorobromomethane	128		4.805				ND	
	47 Chloroform	83		4.864				ND	
	48 1,1,1-Trichloroethane	97		5.042				ND	
	51 Carbon tetrachloride	117		5.196				ND	
	53 1,2-Dichloroethane	62		5.362				ND	
	54 Benzene	78		5.362				ND	
	58 Trichloroethene	130		5.908				ND	
	61 1,2-Dichloropropane	63		6.098				ND	
	65 Dichlorobromomethane	83		6.323				ND	
	68 cis-1,3-Dichloropropene	75		6.714				ND	
	69 4-Methyl-2-pentanone (MIBK	43		6.833				ND	
	70 Toluene	91		7.022				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
71 trans-1,3-Dichloropropene	75		7.188				ND	
73 1,1,2-Trichloroethane	97		7.366				ND	
75 Tetrachloroethene	164		7.521				ND	
76 2-Hexanone	43		7.580				ND	
78 Chlorodibromomethane	129		7.734				ND	
80 Ethylene Dibromide	107		7.841				ND	
82 Chlorobenzene	112		8.303				ND	
84 Ethylbenzene	106		8.398				ND	
85 m-Xylene & p-Xylene	106		8.505				ND	
86 o-Xylene	106		8.884				ND	
87 Styrene	104		8.896				ND	
88 Bromoform	173		9.074				ND	
92 1,1,2,2-Tetrachloroethane	83		9.501				ND	
S 131 1,2-Dichloroethene, Total	96		1.140				ND	
S 133 Xylenes, Total	106		16.530				ND	

Reagents:

VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

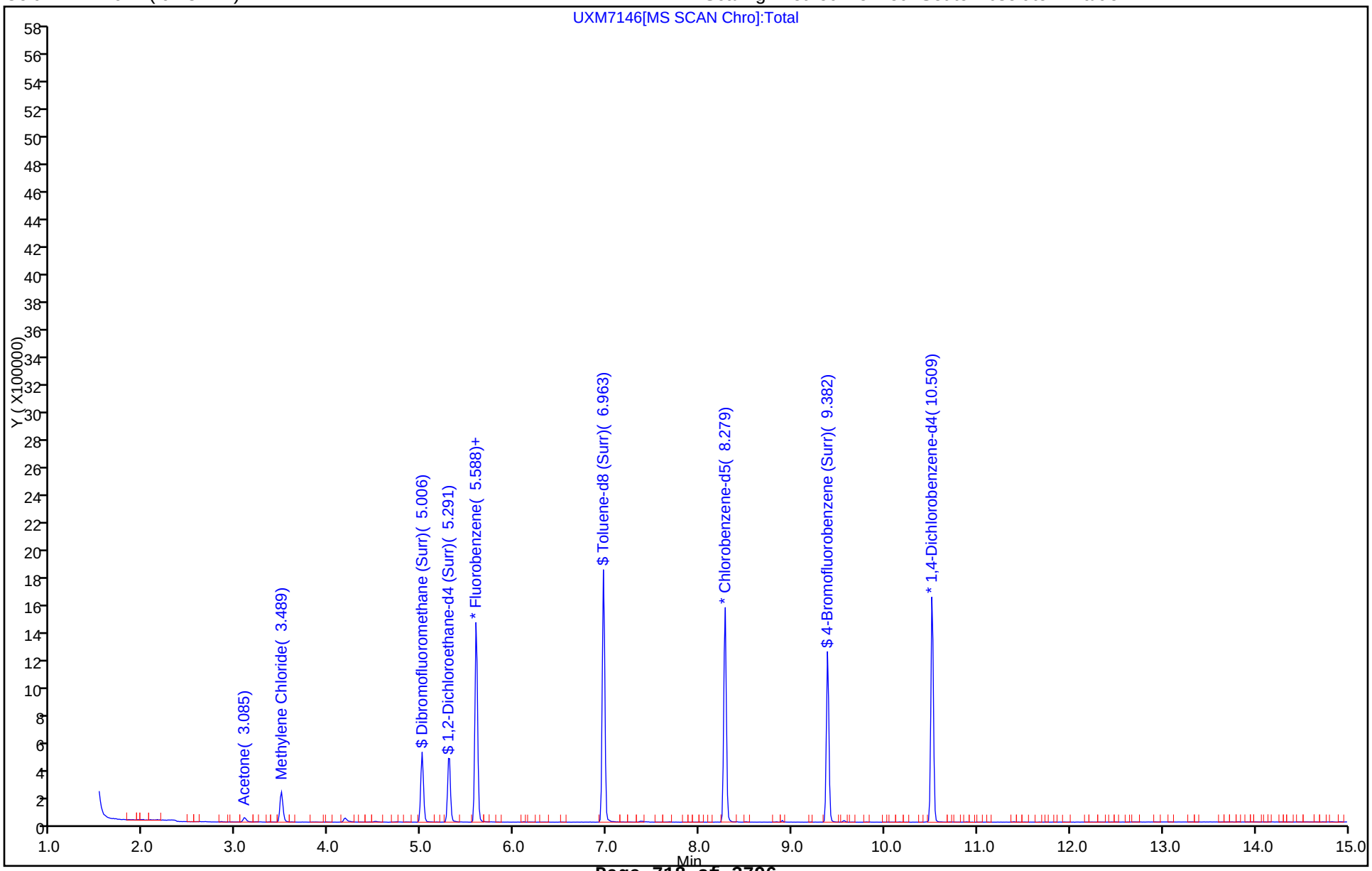
Report Date: 14-Apr-2015 13:41:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7146.D

Injection Date:	14-Apr-2015 12:50:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	240-49236-B-6	Lab Sample ID:	240-49236-6	Worklist Smp#:	14
Client ID:	079SB-0388-0001-TB				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



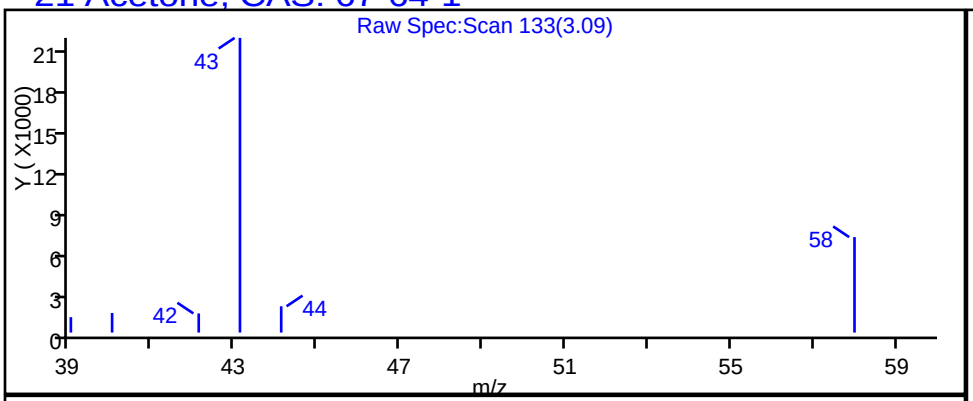
Report Date: 14-Apr-2015 13:41:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

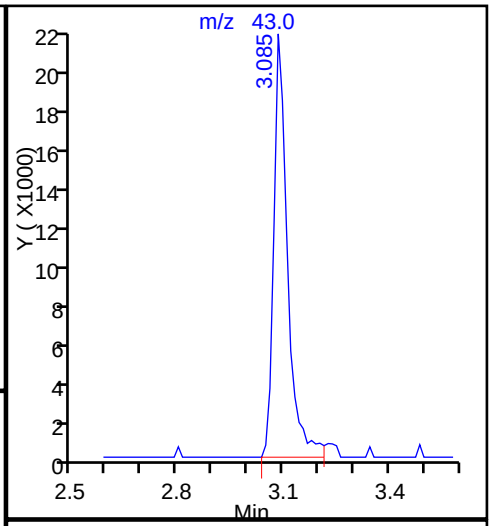
TestAmerica Canton

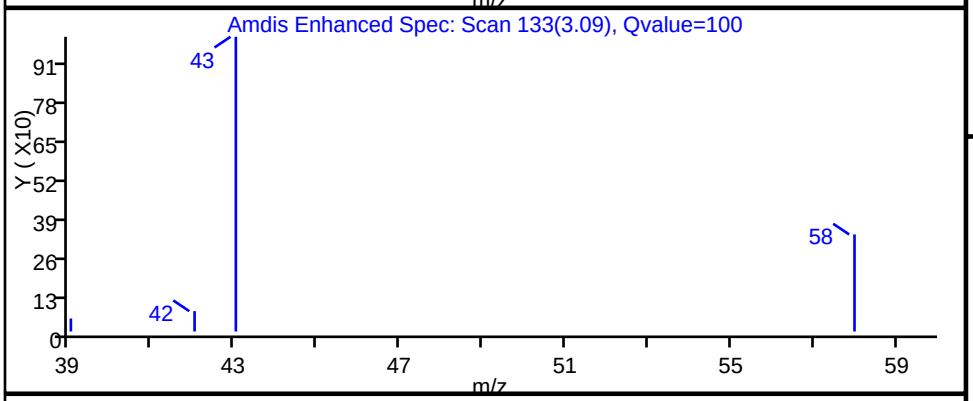
Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7146.D

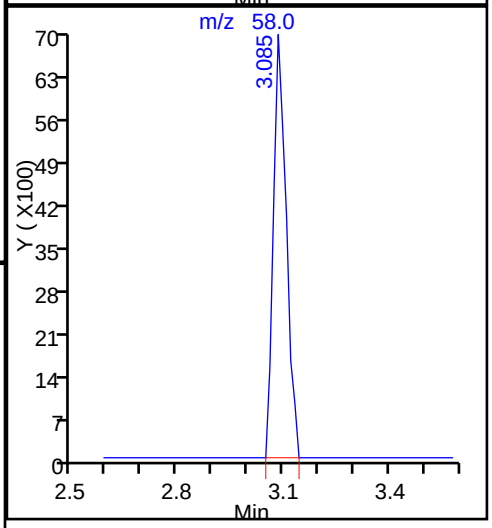
Injection Date:	14-Apr-2015 12:50:30	Instrument ID:	A3UX16		
Lims ID:	240-49236-B-6	Lab Sample ID:	240-49236-6		
Client ID:	079SB-0388-0001-TB				
Operator ID:	1904	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

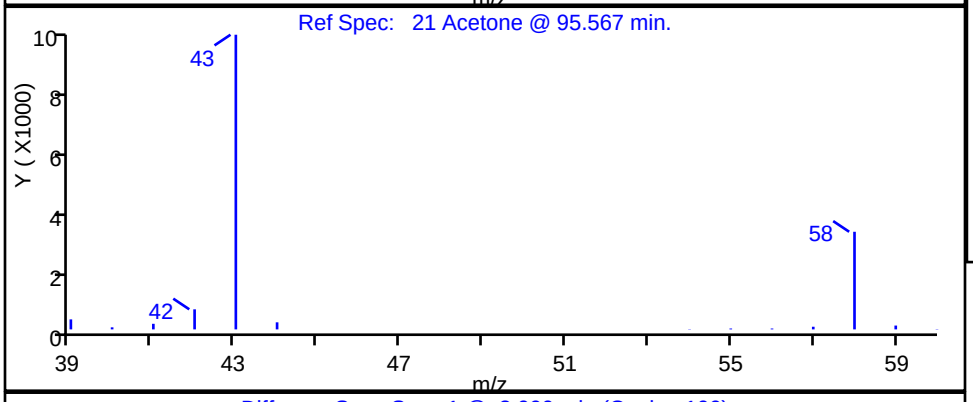
21 Acetone, CAS: 67-64-1

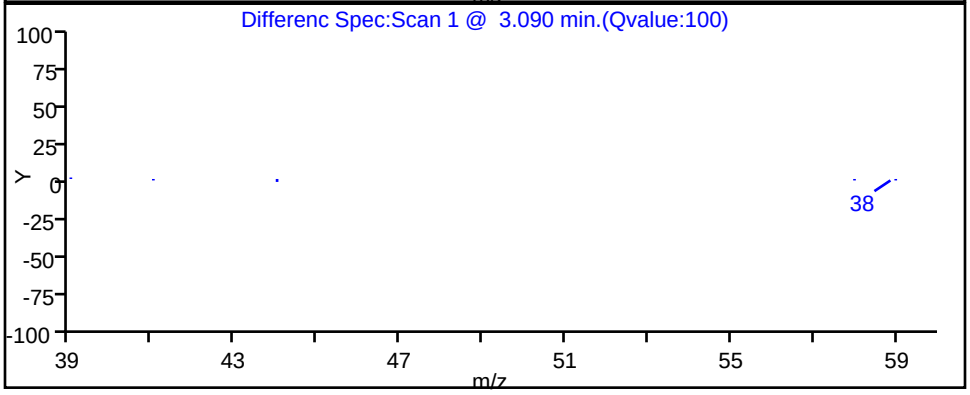












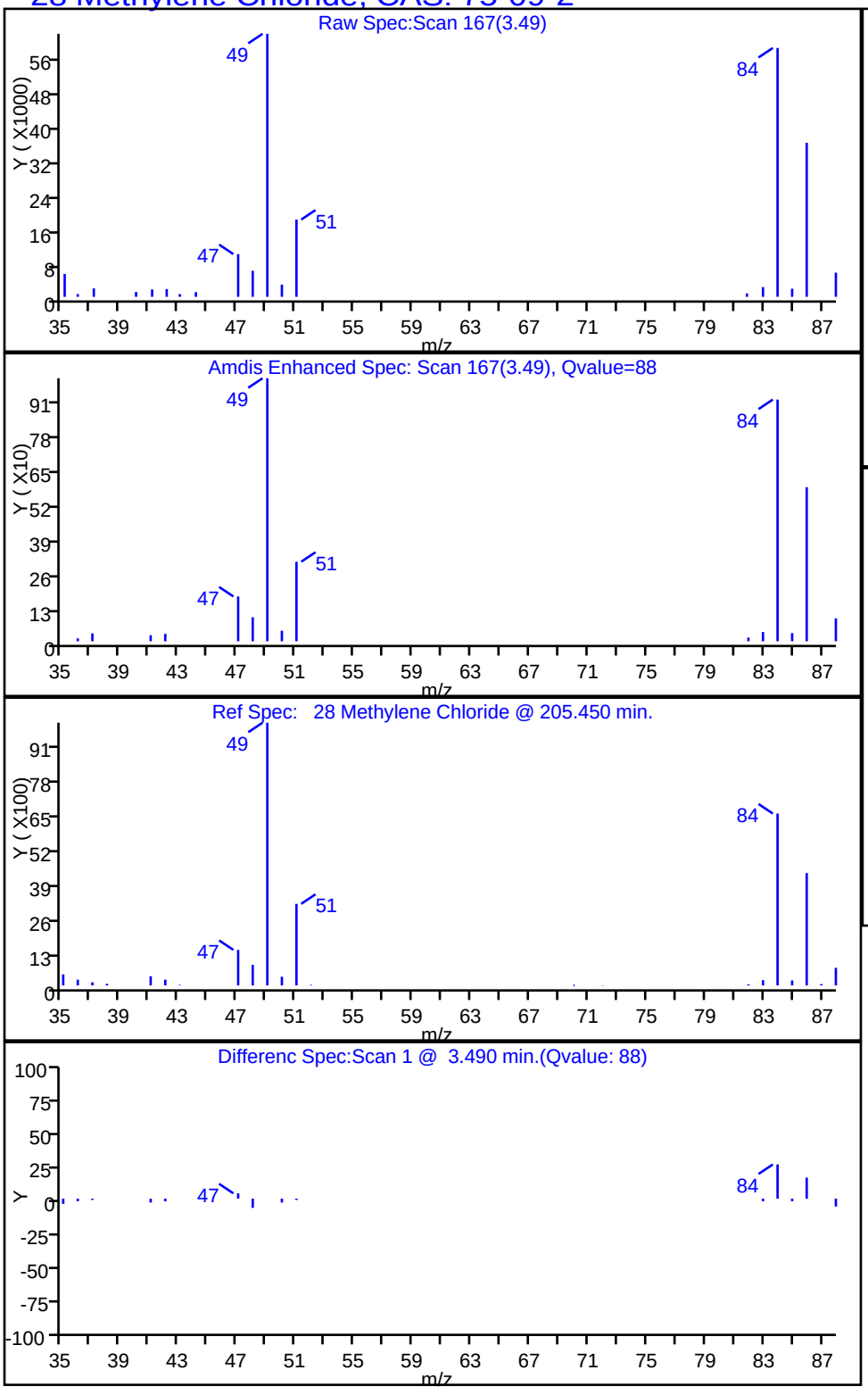
Report Date: 14-Apr-2015 13:41:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

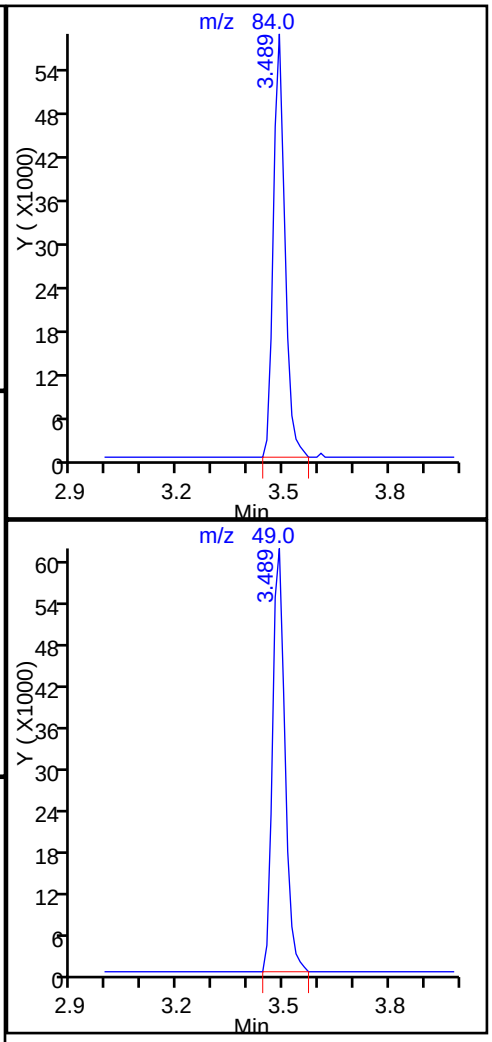
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7146.D

Injection Date:	14-Apr-2015 12:50:30	Instrument ID:	A3UX16		
Lims ID:	240-49236-B-6	Lab Sample ID:	240-49236-6		
Client ID:	079SB-0388-0001-TB				
Operator ID:	1904	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

28 Methylene Chloride, CAS: 75-09-2





FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-170010/3	U1243083.D
Level 2	STD8260 240-170010/4	U1243084.D
Level 3	STD8260 240-170010/5	U1243085.D
Level 4	STD8260 240-170010/6	U1243086.D
Level 5	STD8260 240-170010/7	U1243087.D
Level 6	STD8260 240-170010/8	U1243088.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2806 0.4869	0.3189	0.5034	0.5020	0.4170	Lin1	-0.105	0.4739			0.1000				0.9940		0.9900
Chloromethane	0.5554 0.4647	0.4782	0.4396	0.4572	0.4304	Ave		0.4709			0.1000	9.5		15.0			
Vinyl chloride	0.5398 0.5413	0.3822	0.4999	0.5166	0.4885	Ave		0.4947			0.1000	12.0		15.0			
Bromomethane	0.4477 0.3684	0.3378	0.3188	0.3351	0.3227	Ave		0.3551			0.0500	14.0		15.0			
Chloroethane	0.3872 0.3615	0.3135	0.3116	0.3462	0.3281	Ave		0.3413				8.7		15.0			
Dichlorofluoromethane	0.7726 0.7258	0.6268	0.6216	0.6548	0.6463	Ave		0.6747				9.0		15.0			
Trichlorofluoromethane	0.2650 0.6079	0.3248	0.5772	0.5993	0.5068	Lin1	-0.193	0.5827			0.1000				0.9940		0.9900
Ethyl ether	0.2209 0.2671	0.2260	0.2576	0.2567	0.2537	Ave		0.2470				7.6		15.0			
Acrolein	+++++ 0.0145	0.0138	0.0166	0.0147	0.0152	Ave		0.0150				7.1		15.0			
1,1-Dichloroethene	0.5977 0.6386	0.5176	0.5599	0.5966	0.5694	Ave		0.5800			0.1000	7.1		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2316 0.3368	0.3006	0.2861	0.3276	0.2908	Ave		0.2956			0.0500	13.0		15.0			
Acetone	+++++ 0.1049	0.2157	0.1045	0.1043	0.1037	Lin1	0.2094	0.1018			0.0500				0.9990		0.9900
Iodomethane	0.5455 0.7096	0.6271	0.6529	0.6845	0.6774	Ave		0.6495				9.0		15.0			
Carbon disulfide	0.6121 0.7874	0.6668	0.7219	0.8009	0.7451	Ave		0.7224			0.1000	10.0		15.0			
3-Chloro-1-propene	+++++ 0.2288	0.3567	0.2692	0.2093	0.2670	Lin1	0.1289	0.2356							0.9910		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl acetate	+++++ 0.2410	0.2655	0.2424	0.2241	0.2289	Ave		0.2404			0.1000	6.7		15.0			
Methylene Chloride	+++++ 0.5335	0.6491	0.5189	0.5154	0.5073	Ave		0.5448			0.1000	11.0		15.0			
2-Methyl-2-propanol	0.0348 0.0392	0.0403	0.0382	0.0360	0.0365	Ave		0.0375				5.6		15.0			
Acrylonitrile	0.1231 0.1271	0.1262	0.1248	0.1176	0.1192	Ave		0.1230				3.1		15.0			
Methyl tert-butyl ether	0.9136 1.0819	0.9702	1.0132	0.9872	1.0384	Ave		1.0007			0.1000	5.8		15.0			
trans-1,2-Dichloroethene	0.3453 0.4872	0.3618	0.4349	0.4548	0.4333	Ave		0.4195			0.1000	13.0		15.0			
Hexane	0.1955 0.1958	0.1786	0.1659	0.1932	0.1815	Ave		0.1851				6.5		15.0			
1,1-Dichloroethane	0.4158 0.5776	0.5139	0.5318	0.5427	0.5410	Ave		0.5205			0.1000	11.0		15.0			
Vinyl acetate	+++++ 0.2821	0.3565	0.2738	0.2745	0.2716	Ave		0.2917				12.0		15.0			
cis-1,2-Dichloroethene	0.4616 0.4628	0.4413	0.4245	0.4405	0.4410	Ave		0.4453			0.1000	3.3		15.0			
2-Butanone (MEK)	0.2260 0.1381	0.2094	0.1456	0.1323	0.1326	Lin1	0.1094	0.1349			0.0500				0.9990		0.9900
2,2-Dichloropropane	0.2863 0.2629	0.2399	0.2509	0.2559	0.2584	Ave		0.2591				6.0		15.0			
Chlorobromomethane	0.2298 0.2391	0.2182	0.2403	0.2407	0.2436	Ave		0.2353				4.1		15.0			
Tetrahydrofuran	+++++ 0.0875	0.1427	0.0894	0.0847	0.0833	Lin1	0.1078	0.0847							0.9990		0.9900
Chloroform	0.5711 0.5653	0.5028	0.5276	0.5205	0.5409	Ave		0.5380				4.9		15.0			
1,1,1-Trichloroethane	0.3931 0.4508	0.3502	0.3872	0.3944	0.4052	Ave		0.3968			0.1000	8.2		15.0			
Cyclohexane	0.3547 0.3711	0.3144	0.3136	0.3662	0.3304	Ave		0.3417			0.1000	7.5		15.0			
1,1-Dichloropropene	0.3187 0.3947	0.3485	0.3407	0.3685	0.3621	Ave		0.3555				7.3		15.0			
Carbon tetrachloride	0.3471 0.4210	0.3026	0.3541	0.3800	0.3736	Ave		0.3631			0.1000	11.0		15.0			
Isobutyl alcohol	+++++ 0.0107	0.0108	0.0099	0.0096	0.0096	Ave		0.0101				5.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	1.0840 1.3886	1.2550	1.2818	1.3096	1.2959	Ave		1.2692			0.5000	8.0		15.0			
1,2-Dichloroethane	0.4463 0.4470	0.4330	0.4431	0.4341	0.4331	Ave		0.4395			0.1000	1.5		15.0			
n-Heptane	+++++ 0.0567	0.0412	0.0480	0.0538	0.0529	Ave		0.0505				12.0		15.0			
Trichloroethene	0.3146 0.3879	0.2520	0.3619	0.3731	0.3673	Ave		0.3428			0.2000	15.0		15.0			
Methylcyclohexane	0.2433 0.3055	0.2597	0.2624	0.2847	0.2748	Ave		0.2717			0.1000	8.0		15.0			
1,2-Dichloropropane	0.2488 0.3203	0.2860	0.3020	0.3057	0.3101	Ave		0.2955			0.1000	8.6		15.0			
Dibromomethane	0.2355 0.2764	0.2763	0.2758	0.2666	0.2700	Ave		0.2667				5.9		15.0			
1,4-Dioxane	+++++ 0.0058	0.0038	0.0046	0.0042	0.0043	Ave		0.0045				17.0	*	15.0			
Dichlorobromomethane	0.4007 0.4463	0.4436	0.4180	0.4127	0.4206	Ave		0.4236			0.1000	4.2		15.0			
2-Chloroethyl vinyl ether	0.1951 0.2290	0.2126	0.2128	0.2125	0.2200	Ave		0.2137				5.2		15.0			
cis-1,3-Dichloropropene	0.4846 0.5667	0.4850	0.5256	0.5080	0.5358	Ave		0.5176			0.1500	6.1		15.0			
4-Methyl-2-pentanone (MIBK)	0.3224 0.2933	0.3161	0.2964	0.2696	0.2792	Ave		0.2961			0.0500	6.9		15.0			
Toluene	1.6744 1.8004	1.5718	1.6901	1.7204	1.7544	Ave		1.7019			0.4000	4.6		15.0			
trans-1,3-Dichloropropene	0.5620 0.6027	0.5215	0.5894	0.5702	0.5948	Ave		0.5734			0.1000	5.2		15.0			
Ethyl methacrylate	0.5534 0.4948	0.5786	0.4735	0.4656	0.4854	Ave		0.5086				9.1		15.0			
1,1,2-Trichloroethane	0.3435 0.3831	0.3609	0.3786	0.3903	0.3844	Ave		0.3735			0.1000	4.8		15.0			
Tetrachloroethene	0.3264 0.4011	0.3801	0.3727	0.3949	0.3732	Ave		0.3747			0.2000	7.0		15.0			
1,3-Dichloropropane	0.6502 0.6879	0.6726	0.6659	0.6910	0.6900	Ave		0.6763				2.4		15.0			
2-Hexanone	0.3104 0.2506	0.2934	0.2599	0.2506	0.2503	Ave		0.2692			0.0500	9.7		15.0			
Chlorodibromomethane	0.3603 0.4390	0.3294	0.4032	0.4119	0.4305	Ave		0.3957				11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylene Dibromide	0.3472 0.3991	0.3917	0.4117	0.4050	0.4073	Ave		0.3937				6.0		15.0			
Chlorobenzene	1.0863 1.2503	1.1910	1.2158	1.2058	1.2048	Ave		1.1923			0.3000	4.7		15.0			
1,1,1,2-Tetrachloroethane	0.3530 0.4410	0.3969	0.4313	0.4233	0.4312	Ave		0.4128				8.0		15.0			
Ethylbenzene	0.4399 0.6026	0.5485	0.5723	0.5920	0.5737	Ave		0.5548				11.0		15.0			
m-Xylene & p-Xylene	0.7233 0.7509	0.6428	0.7150	0.7226	0.7213	Ave		0.7127				5.1		15.0			
o-Xylene	0.6656 0.7707	0.7152	0.6889	0.7406	0.7348	Ave		0.7193				5.3		15.0			
Styrene	1.0347 1.3257	1.1017	1.2201	1.2402	1.2767	Ave		1.1998			0.3000	9.2		15.0			
Bromoform	+++++ 0.3218	0.2630	0.2748	0.2885	0.3056	Ave		0.2907			0.1000	8.1		15.0			
Isopropylbenzene	1.2614 1.6279	1.3494	1.4663	1.5116	1.5075	Ave		1.4540			0.1000	8.9		15.0			
1,1,2,2-Tetrachloroethane	1.0778 0.9967	0.9109	1.0277	0.9872	1.0001	Ave		1.0001			0.3000	5.5		15.0			
Bromobenzene	1.0284 1.1121	1.0662	1.0093	1.0584	1.0786	Ave		1.0588				3.4		15.0			
1,2,3-Trichloropropane	0.3784 0.3659	0.3582	0.3728	0.3656	0.3740	Ave		0.3691				2.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2897	0.2643	0.2379	0.2656	0.2750	Ave		0.2665				7.1		15.0			
N-Propylbenzene	0.7515 0.8487	0.8354	0.7423	0.7817	0.7944	Ave		0.7924				5.5		15.0			
2-Chlorotoluene	0.5472 0.8190	0.7130	0.7839	0.7802	0.7951	Ave		0.7397				14.0		15.0			
1,3,5-Trimethylbenzene	1.9595 2.5535	2.1439	2.3192	2.3885	2.4414	Ave		2.3010				9.4		15.0			
4-Chlorotoluene	0.7869 0.9090	0.7192	0.8625	0.8680	0.8938	Ave		0.8399				8.6		15.0			
tert-Butylbenzene	2.0037 2.1798	1.9525	1.8860	2.0406	2.0545	Ave		2.0195				4.9		15.0			
1,2,4-Trimethylbenzene	2.2117 2.8123	2.6294	2.4944	2.6231	2.6876	Ave		2.5764				8.0		15.0			
sec-Butylbenzene	2.2471 2.8245	2.3548	2.4811	2.6290	2.6361	Ave		2.5288				8.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.6714 1.7939	1.6231	1.6955	1.6979	1.7275	Ave		1.7016			0.6000	3.4		15.0			
4-Isopropyltoluene	2.1515 2.6823	2.0821	2.2757	2.5081	2.5520	Ave		2.3753				10.0		15.0			
1,4-Dichlorobenzene	1.5848 1.8893	1.7782	1.7125	1.7878	1.8284	Ave		1.7635			0.5000	6.0		15.0			
n-Butylbenzene	1.6598 2.0737	1.6957	1.6925	1.9114	1.8787	Ave		1.8186				9.0		15.0			
1,2-Dichlorobenzene	1.8866 1.8217	1.8023	1.7583	1.7639	1.7715	Ave		1.8007			0.4000	2.7		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.2666	0.3081	0.2529	0.2675	0.2660	Ave		0.2722			0.0500	7.7		15.0			
1,2,4-Trichlorobenzene	0.9058 1.1235	1.1797	0.9679	1.0796	1.0837	Ave		1.0567			0.2000	9.6		15.0			
Hexachlorobutadiene	0.4777 0.4679	0.3719	0.4140	0.4527	0.4517	Ave		0.4393				9.0		15.0			
Naphthalene	2.8611 3.0106	2.8324	2.7679	2.8463	2.9113	Ave		2.8716				2.9		15.0			
1,2,3-Trichlorobenzene	0.7003 0.9924	0.9649	0.8773	0.9448	0.9596	Ave		0.9065				12.0		15.0			
Dibromofluoromethane (Surr)	+++++ 0.3223	0.2638	0.2984	0.3111	0.3142	Ave		0.3019				7.6		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3722	0.3346	0.3431	0.3581	0.3669	Ave		0.3550				4.5		15.0			
Toluene-d8 (Surr)	+++++ 1.5434	1.4216	1.4963	1.5123	1.5288	Ave		1.5005				3.2		15.0			
4-Bromofluorobenzene (Surr)	+++++ 0.5879	0.5390	0.5584	0.5771	0.5789	Ave		0.5683				3.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-170010/3	U1243083.D
Level 2	STD8260 240-170010/4	U1243084.D
Level 3	STD8260 240-170010/5	U1243085.D
Level 4	STD8260 240-170010/6	U1243086.D
Level 5	STD8260 240-170010/7	U1243087.D
Level 6	STD8260 240-170010/8	U1243088.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	5703 1595225	12669	205223	403300	692278	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	11287 1522476	18997	179204	367301	714491	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	10970 1773509	15183	203777	415088	810883	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	9098 1207073	13420	129963	269247	535753	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	7868 1184246	12453	127012	278164	544743	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	15700 2377930	24903	253390	526103	1072913	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Lin1	5385 1991593	12904	235313	481466	841330	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl ether	FB	Ave	4489 875192	8978	105020	206261	421192	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	+++++ 237894	2733	33905	59152	126081	+++++ 400	5.00	50.0	100	200
1,1-Dichloroethene	FB	Ave	12146 2092215	20562	228242	479303	945196	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	4706 1103543	11942	116640	263215	482807	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	+++++ 687459	17137	85172	167647	344334	+++++ 160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	11086 2324806	24914	266172	549977	1124500	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	12439 2579565	26489	294285	643505	1236951	0.500 80.0	1.00	10.0	20.0	40.0
3-Chloro-1-propene	FB	Lin1	+++++ 749512	14172	109726	168157	443170	+++++ 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	+++++ 3947892	52729	494188	900238	1899998	+++++ 400	5.00	50.0	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Ave	+++++ 1747687	25788	211541	414105	842212	+++++ 80.0	1.00	10.0	20.0	40.0
2-Methyl-2-propanol	FB	Ave	7074 1285391	16014	155600	289342	605265	5.00 800	10.0	100	200	400
Acrylonitrile	FB	Ave	25011 4165520	50126	508864	944557	1978933	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	18565 3544424	38544	413026	793180	1723761	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	7016 1596113	14372	177293	365441	719229	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	3973 641567	7095	67630	155246	301259	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	8450 1892275	20415	216790	436040	898163	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	+++++ 887226	13595	107135	211735	432875	+++++ 76.8	0.960	9.60	19.2	38.4
cis-1,2-Dichloroethene	FB	Ave	9380 1516271	17533	173048	353939	732069	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Lin1	9186 904592	16640	118739	212583	440179	1.00 160	2.00	20.0	40.0	80.0
2,2-Dichloropropane	FB	Ave	5819 861463	9530	102300	205568	428947	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	4669 783295	8668	97948	193369	404351	0.500 80.0	1.00	10.0	20.0	40.0
Tetrahydrofuran	FB	Lin1	+++++ 573226	11338	72904	136166	276686	+++++ 160	2.00	20.0	40.0	80.0
Chloroform	FB	Ave	11606 1851901	19974	215084	418220	897946	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	7988 1476825	13913	157832	316881	672581	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	7208 1215852	12489	127860	294202	548435	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	6477 1293095	13844	138890	296047	601127	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	7053 1379324	12023	144340	305333	620145	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	+++++ 875939	10696	101250	192645	396789	+++++ 2000	25.0	250	500	1000
Benzene	FB	Ave	22029 4549344	49858	522550	1052194	2151258	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	9070 1464488	17204	180635	348814	719029	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	+++++ 185823	1636	19582	43226	87747	+++++ 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	6394 1270707	10012	147549	299769	609700	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	4944 1000996	10319	106968	228778	456105	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	5056 1049254	11361	123134	245578	514772	0.500 80.0	1.00	10.0	20.0	40.0
Dibromomethane	FB	Ave	4785 905528	10975	112443	214161	448205	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 381026	3058	37118	68012	142353	+++++ 1600	20.0	200	400	800
Dichlorobromomethane	FB	Ave	8143 1462055	17622	170384	331587	698237	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7930 1500349	16889	173526	341396	730448	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	9848 1856627	19267	214281	408145	889501	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	13104 1921723	25113	241653	433139	926934	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	27750 4960886	50264	551565	1104062	2333683	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	9314 1660814	16678	192344	365916	791204	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	9172 1363456	18504	154536	298800	645592	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	5693 1055636	11542	123554	250493	511312	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	5409 1105131	12154	121622	253442	496392	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	10776 1895388	21509	217332	443440	917817	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	10288 1380849	18767	169630	321593	665833	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	5971 1209551	10532	131583	264304	572569	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	5755 1099604	12527	134376	259912	541835	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	18003 3445192	38085	396770	773830	1602609	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5850 1215251	12693	140751	271662	573612	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	7290 1660428	17539	186782	379905	763149	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	11987 2069193	20557	233359	463733	959464	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	11032 2123578	22871	224826	475248	977340	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	17148 3652803	35230	398174	795878	1698226	0.500 80.0	1.00	10.0	20.0	40.0
Bromoform	CBZ	Ave	+++++ 886567	8410	89685	185129	406523	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	20905 4485632	43152	478548	970049	2005196	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	8725 1455476	14925	180444	339884	697788	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	8325 1624002	17469	177217	364373	752581	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	3063 534295	5869	65463	125858	260952	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 423083	4330	41779	91426	191860	+++++ 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	6084 1239428	13688	130332	269141	554284	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	4430 1195991	11682	137636	268604	554812	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	15863 3728892	35126	407221	822332	1703451	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	6370 1327425	11784	151433	298851	623651	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	16221 3183097	31990	331142	702556	1433550	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	17905 4106776	43081	437971	903087	1875253	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	18191 4124635	38582	435641	905121	1839338	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	13531 2619603	26593	297707	584561	1205387	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	17417 3916919	34114	399567	863479	1780644	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	12830 2758956	29135	300684	615525	1275766	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	13437 3028233	27784	297182	658066	1310833	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 170010

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/28/2015 12:41 Calibration End Date: 02/28/2015 14:44 Calibration ID: 27084

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	15273 2660219	29530	308733	607286	1236038	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 389387	5048	44401	92101	185627	+++++ 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	7333 1640643	19328	169943	371684	756120	0.500 80.0	1.00	10.0	20.0	40.0
Hexachlorobutadiene	DCB	Ave	3867 683237	6094	72697	155846	315178	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	23162 4396338	46408	485996	979936	2031337	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	5669 1449144	15809	154045	325275	669581	0.500 80.0	1.00	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 1055893	10479	121648	249926	521542	+++++ 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1219440	13294	139876	287688	609038	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 4252640	45459	488330	970499	2033541	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 1619847	17235	182247	370356	770093	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243083.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Feb-2015 12:41:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-003
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:07:55 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: laveyt Date: 28-Feb-2015 14:01:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.405	5.405	0.000	99	812859	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	662934	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	93	323817	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113		4.813				ND	ND	
$ 5 1,2-Dichloroethane-d4 (Sur	65		5.121				ND	ND	
$ 6 Toluene-d8 (Surr)	98		6.836				ND	ND	
$ 7 4-Bromofluorobenzene (Surr	95		9.404				ND	ND	
9 Dichlorodifluoromethane	85	1.630	1.642	-0.012	37	5703	0.5000	0.5176	
10 Chloromethane	50	1.772	1.784	-0.012	99	11287	0.5000	0.5897	
11 Vinyl chloride	62	1.890	1.902	-0.012	56	10970	0.5000	0.5456	
12 Butadiene	54		1.914				ND	ND	
13 Bromomethane	94	2.186	2.186	0.000	84	9098	0.5000	0.6304	
14 Chloroethane	64	2.293	2.281	0.012	95	7868	0.5000	0.5671	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	94	15700	0.5000	0.5726	
16 Trichlorofluoromethane	101	2.506	2.529	-0.023	32	5385	0.5000	0.5586	
17 Ethyl ether	59	2.719	2.718	0.000	83	4489	0.5000	0.4471	
18 Acrolein	56		2.837				ND	ND	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	68	4706	0.5000	0.3917	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	94	12146	0.5000	0.5153	
21 Acetone	43		2.967				ND	ND	
23 Iodomethane	142	3.097	3.097	0.000	95	11086	0.5000	0.4200	
24 Carbon disulfide	76	3.168	3.168	0.000	55	12439	0.5000	0.4237	
27 3-Chloro-1-propene	41		3.227				ND	ND	
26 Methyl acetate	43		3.239				ND	ND	
28 Methylene Chloride	49		3.369				ND	ND	
29 2-Methyl-2-propanol	59	3.393	3.405	-0.012	83	7074	5.00	4.64	
30 Acrylonitrile	53	3.535	3.535	0.000	96	25011	5.00	5.00	
32 Methyl tert-butyl ether	73	3.559	3.559	0.000	93	18565	0.5000	0.4564	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	55	7016	0.5000	0.4115	
33 Hexane	57	3.795	3.795	0.000	51	3973	0.5000	0.5281	
34 1,1-Dichloroethane	63	3.914	3.925	-0.011	92	8450	0.5000	0.3995	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43		3.949				ND	ND	
40 2-Butanone (MEK)	43	4.422	4.411	0.011	72	9186	1.00	0.8643	
39 cis-1,2-Dichloroethene	61	4.411	4.411	0.000	79	9380	0.5000	0.5183	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	49	5819	0.5000	0.5527	
45 Chlorobromomethane	49	4.624	4.612	0.012	93	4669	0.5000	0.4883	
46 Tetrahydrofuran	42		4.659				ND	ND	
47 Chloroform	83	4.671	4.683	-0.012	89	11606	0.5000	0.5307	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	35	7988	0.5000	0.4953	
49 Cyclohexane	84	4.908	4.919	-0.011	79	7208	0.5000	0.5190	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	87	6477	0.5000	0.4482	
51 Carbon tetrachloride	117	5.002	5.002	0.000	89	7053	0.5000	0.4780	
52 Isobutyl alcohol	41		5.050				ND	ND	
53 Benzene	78	5.168	5.180	-0.012	97	22029	0.5000	0.4271	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	61	9070	0.5000	0.5078	
56 n-Heptane	100		5.381				ND	ND	
58 Trichloroethene	130	5.736	5.724	0.012	93	6394	0.5000	0.4589	
60 Methylcyclohexane	83	5.913	5.913	0.000	68	4944	0.5000	0.4476	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	81	5056	0.5000	0.4210	
64 Dibromomethane	174	6.044	6.044	0.000	65	4785	0.5000	0.4414	
63 1,4-Dioxane	88		6.044				ND	ND	
65 Dichlorobromomethane	83	6.174	6.174	0.000	95	8143	0.5000	0.4729	
67 2-Chloroethyl vinyl ether	63	6.434	6.422	0.012	91	7930	1.00	0.9132	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	92	9848	0.5000	0.4681	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	91	13104	1.00	1.09	
70 Toluene	91	6.896	6.896	0.000	97	27750	0.5000	0.4919	
71 trans-1,3-Dichloropropene	75	7.097	7.085	0.012	87	9314	0.5000	0.4900	
72 Ethyl methacrylate	69	7.156	7.156	0.000	80	9172	0.5000	0.5441	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	90	5693	0.5000	0.4599	
75 Tetrachloroethene	166	7.416	7.416	0.000	84	5409	0.5000	0.4355	
76 1,3-Dichloropropane	76	7.440	7.428	0.012	88	10776	0.5000	0.4807	
77 2-Hexanone	43	7.499	7.487	0.012	92	10288	1.00	1.15	
79 Chlorodibromomethane	129	7.653	7.653	0.000	79	5971	0.5000	0.4553	
80 Ethylene Dibromide	107	7.783	7.771	0.012	89	5755	0.5000	0.4410	
82 Chlorobenzene	112	8.244	8.256	-0.012	41	18003	0.5000	0.4555	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	81	5850	0.5000	0.4275	
84 Ethylbenzene	106	8.351	8.351	0.000	98	7290	0.5000	0.3964	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	95	11987	0.5000	0.5074	
86 o-Xylene	106	8.872	8.872	0.000	84	11032	0.5000	0.4627	
87 Styrene	104	8.883	8.883	0.000	92	17148	0.5000	0.4312	
88 Bromoform	173		9.073				ND	ND	
89 Isopropylbenzene	105	9.238	9.238	0.000	93	20905	0.5000	0.4338	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	95	8725	0.5000	0.5389	
92 Bromobenzene	156	9.570	9.570	0.000	91	8325	0.5000	0.4856	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	77	3063	0.5000	0.5125	
94 trans-1,4-Dichloro-2-buten	53		9.593				ND	ND	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	6084	0.5000	0.4742	
96 2-Chlorotoluene	126	9.759	9.759	0.000	94	4430	0.5000	0.3699	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	95	15863	0.5000	0.4258	
98 4-Chlorotoluene	126	9.877	9.877	0.000	95	6370	0.5000	0.4684	
99 tert-Butylbenzene	119	10.185	10.185	0.000	91	16221	0.5000	0.4961	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	93	17905	0.5000	0.4292	
102 sec-Butylbenzene	105	10.422	10.422	0.000	94	18191	0.5000	0.4443	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	94	13531	0.5000	0.4911	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	94	17417	0.5000	0.4529	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	88	12830	0.5000	0.4493	
108 n-Butylbenzene	91	11.002	11.002	0.000	86	13437	0.5000	0.4563	
109 1,2-Dichlorobenzene	146	11.037	11.025	0.012	95	15273	0.5000	0.5239	
110 1,2-Dibromo-3-Chloropropan	157		11.853				ND	ND	
112 1,2,4-Trichlorobenzene	180	12.729	12.741	-0.012	90	7333	0.5000	0.4286	
113 Hexachlorobutadiene	225	12.930	12.930	0.000	69	3867	0.5000	0.5437	
114 Naphthalene	128	13.001	13.001	0.000	94	23162	0.5000	0.4982	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	91	5669	0.5000	0.3862	
S 124 1,2-Dichloroethene, Total	96				0		1.00	0.9298	
S 125 1,3-Dichloropropene, Total	75				0		1.00	0.9581	
S 126 Xylenes, Total	106				0		1.00	0.9701	
S 127 Trihalomethanes, Total	1				0		2.00	1.46	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VMRGAS_00091	Amount Added:	0.40	Units: uL
VMAROLISTDW_00089	Amount Added:	0.40	Units: uL
VMRPRIMW_00114	Amount Added:	0.40	Units: uL
vm100is_stk_00022	Amount Added:	1.00	Units: uL
vm100ss_stk_00019	Amount Added:	0.20	Units: uL

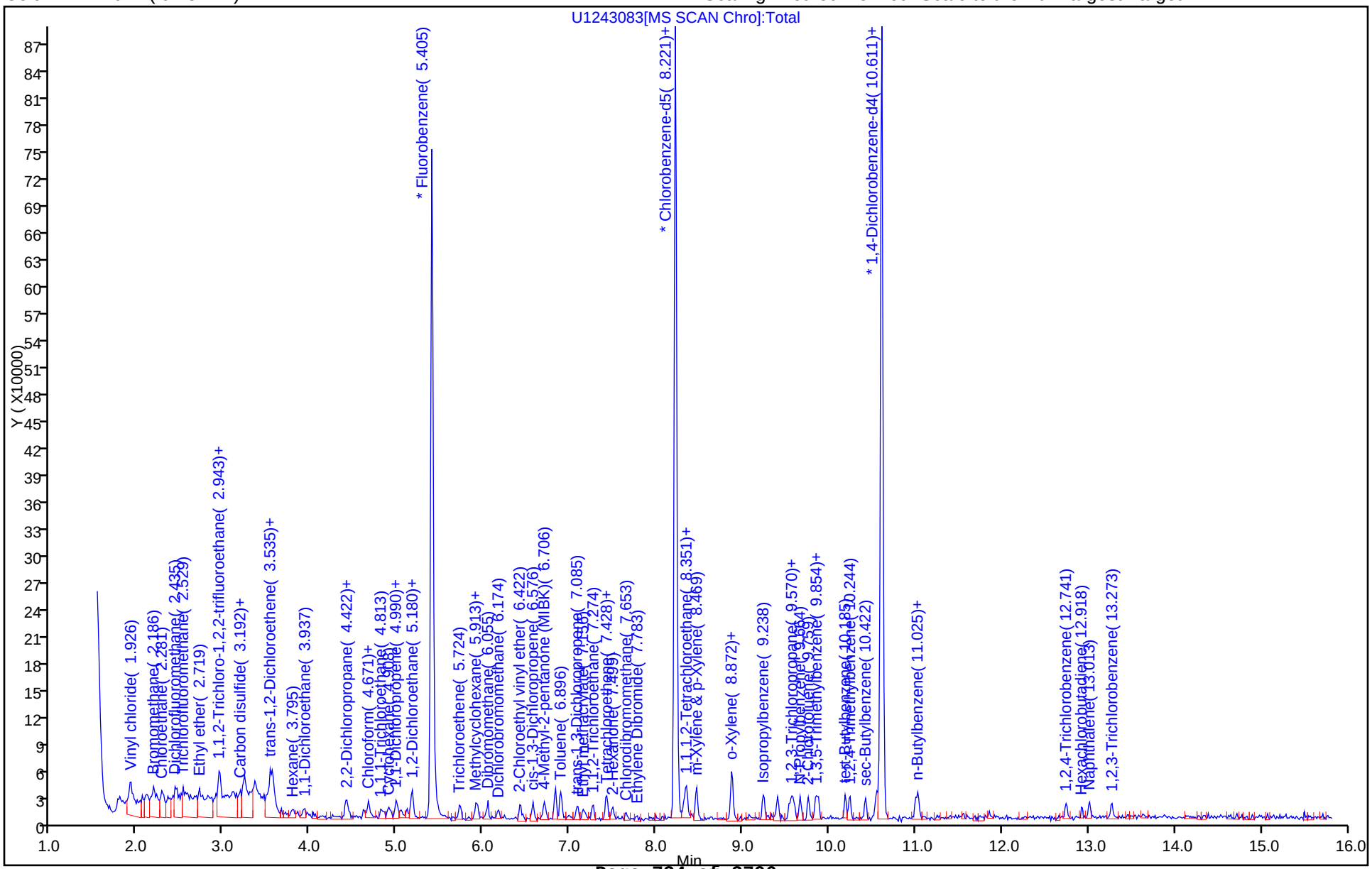
Report Date: 02-Mar-2015 15:07:57 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243083.D

Injection Date:	28-Feb-2015 12:41:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243084.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Feb-2015 13:05:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-004
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:07:58 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: laveyt Date: 28-Feb-2015 14:05:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.405	-0.001	99	794553	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	85	639559	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	94	327690	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	92	10479	1.00	0.8736	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.121	-0.012	78	13294	1.00	0.9427	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	93	45459	1.00	0.9474	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	91	17235	1.00	0.9484	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	97	12669	1.00	0.8944	
10 Chloromethane	50	1.772	1.784	-0.012	96	18997	1.00	1.02	
11 Vinyl chloride	62	1.902	1.902	0.000	32	15183	1.00	0.7725	
12 Butadiene	54	1.914	1.914	0.000	97	16975	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	88	13420	1.00	0.9513	
14 Chloroethane	64	2.281	2.281	0.000	96	12453	1.00	0.9183	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	96	24903	1.00	0.9291	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	87	12904	1.00	0.8886	
17 Ethyl ether	59	2.718	2.718	0.000	85	8978	1.00	0.9149	
18 Acrolein	56	2.837	2.837	0.000	44	2733	5.00	4.60	
20 1,1,2-Trichloro-1,2,2-trif	101	2.955	2.943	0.012	67	11942	1.00	1.02	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	96	20562	1.00	0.8924	
21 Acetone	43	2.955	2.967	-0.012	45	17137	2.00	2.18	
23 Iodomethane	142	3.097	3.097	0.000	96	24914	1.00	0.9655	
24 Carbon disulfide	76	3.168	3.168	0.000	94	26489	1.00	0.9230	
27 3-Chloro-1-propene	41	3.227	3.227	0.000	32	14172	1.00	0.9671	
26 Methyl acetate	43	3.239	3.239	0.000	95	52729	5.00	5.52	
28 Methylene Chloride	49	3.357	3.369	-0.012	85	25788	1.00	1.19	
29 2-Methyl-2-propanol	59	3.405	3.405	0.000	96	16014	10.0	10.7	
30 Acrylonitrile	53	3.535	3.535	0.000	99	50126	10.0	10.3	
32 Methyl tert-butyl ether	73	3.570	3.559	0.011	97	38544	1.00	0.9695	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	54	14372	1.00	0.8623	
33 Hexane	57	3.795	3.795	0.000	85	7095	1.00	0.9649	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	98	20415	1.00	0.9873	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	3.961	3.949	0.012	98	13595	0.9600	1.17	
40 2-Butanone (MEK)	43	4.410	4.411	-0.001	58	16640	2.00	2.29	
39 cis-1,2-Dichloroethene	61	4.410	4.411	-0.001	82	17533	1.00	0.99	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	55	9530	1.00	0.9260	
45 Chlorobromomethane	49	4.612	4.612	0.000	86	8668	1.00	0.9274	
46 Tetrahydrofuran	42	4.671	4.659	0.012	51	11338	2.00	2.10	
47 Chloroform	83	4.683	4.683	0.000	94	19974	1.00	0.9345	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	93	13913	1.00	0.8826	
49 Cyclohexane	84	4.907	4.919	-0.012	85	12489	1.00	0.9199	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	91	13844	1.00	0.9801	
51 Carbon tetrachloride	117	5.002	5.002	0.000	90	12023	1.00	0.8336	
52 Isobutyl alcohol	41	5.049	5.050	-0.001	91	10696	25.0	26.6	
53 Benzene	78	5.168	5.180	-0.012	94	49858	1.00	0.9888	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	60	17204	1.00	0.9854	
56 n-Heptane	100	5.381	5.381	0.000	36	1636	1.00	0.8152	
58 Trichloroethene	130	5.736	5.724	0.012	85	10012	1.00	0.7352	
60 Methylcyclohexane	83	5.913	5.913	0.000	66	10319	1.00	0.9558	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	90	11361	1.00	0.9678	
64 Dibromomethane	174	6.043	6.044	-0.001	81	10975	1.00	1.04	
63 1,4-Dioxane	88	6.043	6.044	-0.001	36	3058	20.0	16.9	
65 Dichlorobromomethane	83	6.174	6.174	0.000	96	17622	1.00	1.05	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	92	16889	2.00	1.99	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	95	19267	1.00	0.9369	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	94	25113	2.00	2.13	
70 Toluene	91	6.895	6.896	-0.001	97	50264	1.00	0.9236	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	95	16678	1.00	0.9095	
72 Ethyl methacrylate	69	7.156	7.156	0.000	86	18504	1.00	1.14	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	89	11542	1.00	0.9664	
75 Tetrachloroethene	166	7.416	7.416	0.000	91	12154	1.00	1.01	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	86	21509	1.00	0.99	
77 2-Hexanone	43	7.487	7.487	0.000	95	18767	2.00	2.18	
79 Chlorodibromomethane	129	7.653	7.653	0.000	88	10532	1.00	0.8324	
80 Ethylene Dibromide	107	7.771	7.771	0.000	98	12527	1.00	1.00	
82 Chlorobenzene	112	8.256	8.256	0.000	95	38085	1.00	1.00	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	88	12693	1.00	0.9616	
84 Ethylbenzene	106	8.351	8.351	0.000	98	17539	1.00	0.9885	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	95	20557	1.00	0.9020	
86 o-Xylene	106	8.871	8.872	-0.001	94	22871	1.00	0.99	
87 Styrene	104	8.883	8.883	0.000	93	35230	1.00	0.9182	
88 Bromoform	173	9.073	9.073	0.000	93	8410	1.00	0.9046	
89 Isopropylbenzene	105	9.238	9.238	0.000	94	43152	1.00	0.9281	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	96	14925	1.00	0.9109	
92 Bromobenzene	156	9.570	9.570	0.000	92	17469	1.00	1.01	
93 1,2,3-Trichloropropane	110	9.581	9.593	-0.012	81	5869	1.00	0.9704	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	67	4330	1.00	0.99	
95 N-Propylbenzene	120	9.664	9.664	0.000	97	13688	1.00	1.05	
96 2-Chlorotoluene	126	9.759	9.759	0.000	96	11682	1.00	0.9638	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	95	35126	1.00	0.9317	
98 4-Chlorotoluene	126	9.877	9.877	0.000	98	11784	1.00	0.8563	
99 tert-Butylbenzene	119	10.185	10.185	0.000	90	31990	1.00	0.9668	
101 1,2,4-Trimethylbenzene	105	10.244	10.232	0.012	93	43081	1.00	1.02	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	38582	1.00	0.9312	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	98	26593	1.00	0.9539	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	97	34114	1.00	0.8766	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	96	29135	1.00	1.01	
108 n-Butylbenzene	91	11.001	11.002	-0.001	93	27784	1.00	0.9324	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	96	29530	1.00	1.00	
110 1,2-Dibromo-3-Chloropropan	157	11.865	11.853	0.012	86	5048	1.00	1.13	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	89	19328	1.00	1.12	
113 Hexachlorobutadiene	225	12.930	12.930	0.000	88	6094	1.00	0.8466	
114 Naphthalene	128	13.001	13.001	0.000	96	46408	1.00	0.9864	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	92	15809	1.00	1.06	
S 124 1,2-Dichloroethene, Total	96				0		2.00	1.85	
S 125 1,3-Dichloropropene, Total	75				0		2.00	1.85	
S 126 Xylenes, Total	106				0		2.00	1.90	
S 127 Trihalomethanes, Total	1				0		4.00	3.72	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00091	Amount Added:	0.80	Units: uL
VMAROLISTDW_00089	Amount Added:	0.80	Units: uL
VMRPRIMW_00114	Amount Added:	0.80	Units: uL
vm100is_stk_00022	Amount Added:	1.00	Units: uL
vm100ss_stk_00019	Amount Added:	0.40	Units: uL

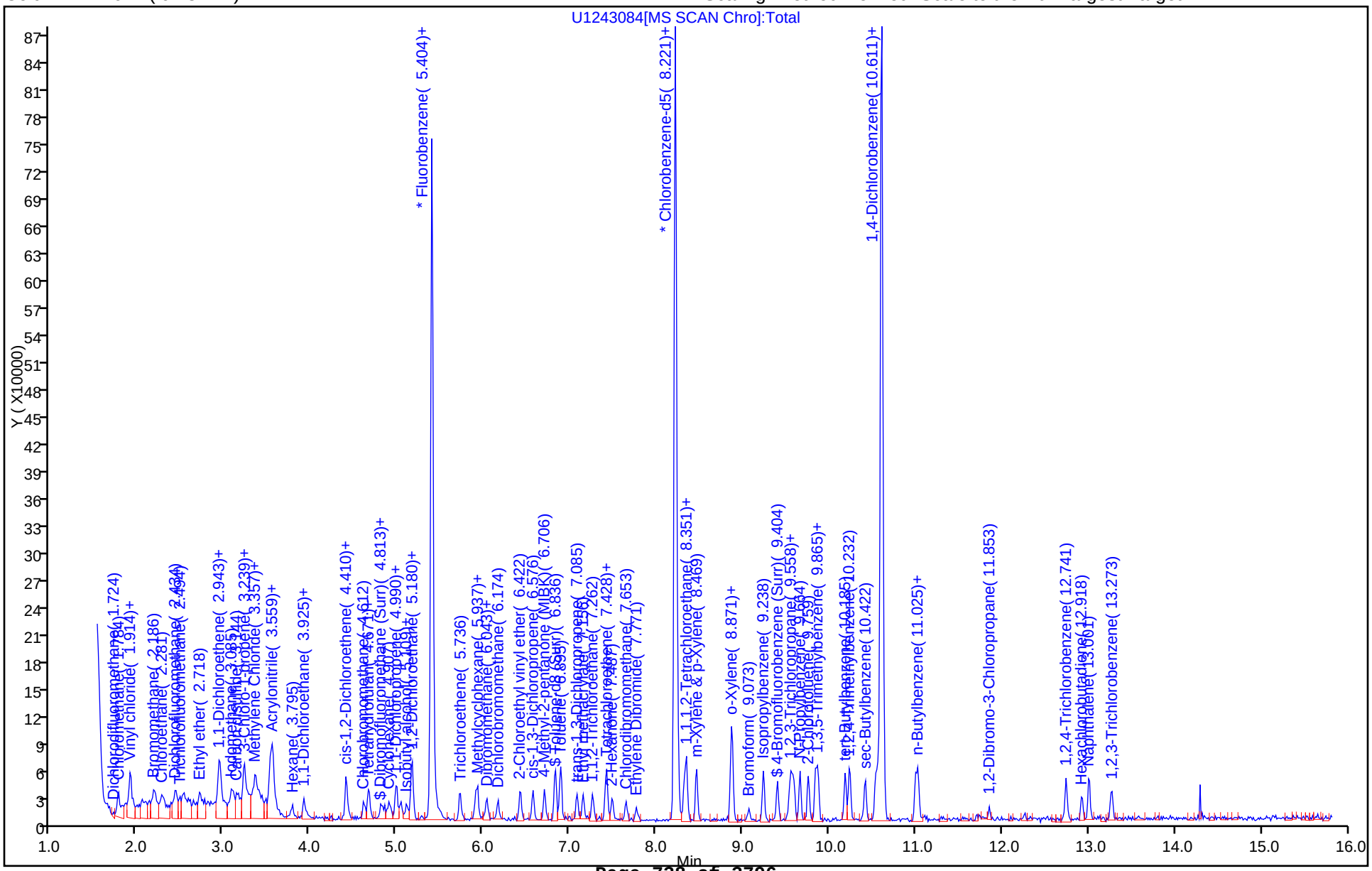
Report Date: 02-Mar-2015 15:07:59 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243084.D

Injection Date:	28-Feb-2015 13:05:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L2			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243085.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Feb-2015 13:30:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-005
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:07:59 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: laveyt Date: 28-Feb-2015 13:54:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.405	-0.001	99	815329	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	85	652714	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	91	351167	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	93	121648	10.0	9.88	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.121	-0.001	89	139876	10.0	9.67	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	488330	10.0	9.97	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	95	182247	10.0	9.83	
9 Dichlorodifluoromethane	85	1.641	1.642	-0.001	99	205223	10.0	10.8	
10 Chloromethane	50	1.772	1.784	-0.012	99	179204	10.0	9.33	
11 Vinyl chloride	62	1.902	1.902	0.000	98	203777	10.0	10.1	
12 Butadiene	54	1.914	1.914	0.000	98	162493	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	91	129963	10.0	8.98	
14 Chloroethane	64	2.280	2.281	-0.001	99	127012	10.0	9.13	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	97	253390	10.0	9.21	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	84	235313	10.0	10.2	
17 Ethyl ether	59	2.718	2.718	0.000	87	105020	10.0	10.4	
18 Acrolein	56	2.837	2.837	0.000	94	33905	50.0	55.6	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	64	116640	10.0	9.68	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	98	228242	10.0	9.65	
21 Acetone	43	2.967	2.967	0.000	97	85172	20.0	18.5	
23 Iodomethane	142	3.097	3.097	0.000	97	266172	10.0	10.1	
24 Carbon disulfide	76	3.168	3.168	0.000	98	294285	10.0	10.0	
27 3-Chloro-1-propene	41	3.227	3.227	0.000	89	109726	10.0	10.9	
26 Methyl acetate	43	3.239	3.239	0.000	97	494188	50.0	50.4	
28 Methylene Chloride	49	3.357	3.369	-0.012	90	211541	10.0	9.52	
29 2-Methyl-2-propanol	59	3.405	3.405	0.000	99	155600	100.0	101.8	
30 Acrylonitrile	53	3.535	3.535	0.000	100	508864	100.0	101.5	
32 Methyl tert-butyl ether	73	3.558	3.559	-0.001	94	413026	10.0	10.1	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	96	177293	10.0	10.4	
33 Hexane	57	3.795	3.795	0.000	88	67630	10.0	8.96	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	100	216790	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.000	96	107135	9.60	9.01	
40 2-Butanone (MEK)	43	4.410	4.411	-0.001	96	118739	20.0	20.8	
39 cis-1,2-Dichloroethene	61	4.410	4.411	-0.001	83	173048	10.0	9.53	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	84	102300	10.0	9.69	
45 Chlorobromomethane	49	4.612	4.612	0.000	85	97948	10.0	10.2	
46 Tetrahydrofuran	42	4.659	4.659	0.000	87	72904	20.0	19.8	
47 Chloroform	83	4.683	4.683	0.000	91	215084	10.0	9.81	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	97	157832	10.0	9.76	
49 Cyclohexane	84	4.907	4.919	-0.012	88	127860	10.0	9.18	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	96	138890	10.0	9.58	
51 Carbon tetrachloride	117	5.002	5.002	0.000	97	144340	10.0	9.75	
52 Isobutyl alcohol	41	5.049	5.050	-0.001	96	101250	250.0	245.7	
53 Benzene	78	5.168	5.180	-0.012	94	522550	10.0	10.1	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	97	180635	10.0	10.1	
56 n-Heptane	100	5.381	5.381	0.000	85	19582	10.0	9.51	
58 Trichloroethene	130	5.724	5.724	0.000	93	147549	10.0	10.6	
60 Methylcyclohexane	83	5.913	5.913	0.000	85	106968	10.0	9.66	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	93	123134	10.0	10.2	
64 Dibromomethane	174	6.043	6.044	-0.001	87	112443	10.0	10.3	
63 1,4-Dioxane	88	6.055	6.044	0.011	34	37118	200.0	200.2	
65 Dichlorobromomethane	83	6.173	6.174	-0.001	100	170384	10.0	9.87	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	93	173526	20.0	19.9	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	96	214281	10.0	10.2	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	94	241653	20.0	20.0	
70 Toluene	91	6.895	6.896	-0.001	99	551565	10.0	9.93	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	91	192344	10.0	10.3	
72 Ethyl methacrylate	69	7.156	7.156	0.000	85	154536	10.0	9.31	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	92	123554	10.0	10.1	
75 Tetrachloroethene	166	7.416	7.416	0.000	96	121622	10.0	9.95	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	89	217332	10.0	9.85	
77 2-Hexanone	43	7.487	7.487	0.000	93	169630	20.0	19.3	
79 Chlorodibromomethane	129	7.653	7.653	0.000	89	131583	10.0	10.2	
80 Ethylene Dibromide	107	7.771	7.771	0.000	96	134376	10.0	10.5	
82 Chlorobenzene	112	8.256	8.256	0.000	98	396770	10.0	10.2	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	94	140751	10.0	10.4	
84 Ethylbenzene	106	8.351	8.351	0.000	97	186782	10.0	10.3	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	96	233359	10.0	10.0	
86 o-Xylene	106	8.871	8.872	-0.001	96	224826	10.0	9.58	
87 Styrene	104	8.883	8.883	0.000	94	398174	10.0	10.2	
88 Bromoform	173	9.073	9.073	0.000	96	89685	10.0	9.45	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	478548	10.0	10.1	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	98	180444	10.0	10.3	
92 Bromobenzene	156	9.570	9.570	0.000	88	177217	10.0	9.53	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	83	65463	10.0	10.1	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	85	41779	10.0	8.93	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	130332	10.0	9.37	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	137636	10.0	10.6	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	95	407221	10.0	10.1	
98 4-Chlorotoluene	126	9.877	9.877	0.000	96	151433	10.0	10.3	
99 tert-Butylbenzene	119	10.185	10.185	0.000	90	331142	10.0	9.34	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	96	437971	10.0	9.68	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	435641	10.0	9.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	98	297707	10.0	9.96	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	97	399567	10.0	9.58	
105 1,4-Dichlorobenzene	146	10.634	10.635	-0.001	96	300684	10.0	9.71	
108 n-Butylbenzene	91	11.001	11.002	-0.001	95	297182	10.0	9.31	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	99	308733	10.0	9.76	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	91	44401	10.0	9.29	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	94	169943	10.0	9.16	
113 Hexachlorobutadiene	225	12.930	12.930	0.000	94	72697	10.0	9.42	
114 Naphthalene	128	13.013	13.001	0.012	96	485996	10.0	9.64	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	95	154045	10.0	9.68	
S 124 1,2-Dichloroethene, Total	96				0		20.0	19.9	
S 125 1,3-Dichloropropene, Total	75				0		20.0	20.4	
S 126 Xylenes, Total	106				0		20.0	19.6	
S 127 Trihalomethanes, Total	1				0		40.0	39.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00091	Amount Added:	8.00	Units: uL
VMAROLISTDW_00089	Amount Added:	8.00	Units: uL
VMRPRIMW_00114	Amount Added:	8.00	Units: uL
vm100is_stk_00022	Amount Added:	1.00	Units: uL
vm100ss_stk_00019	Amount Added:	4.00	Units: uL

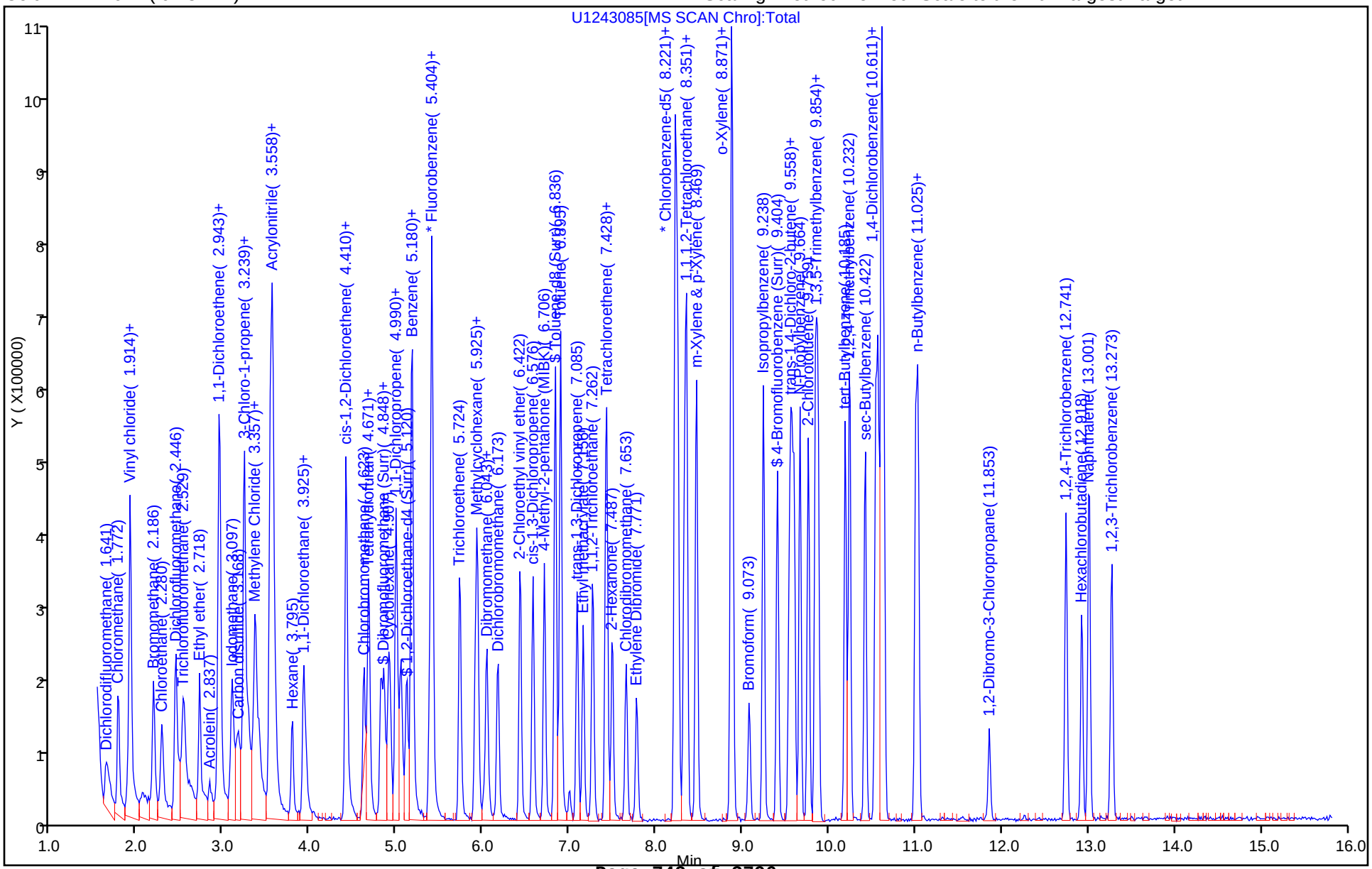
Report Date: 02-Mar-2015 15:08:00 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243085.D

Injection Date:	28-Feb-2015 13:30:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243086.D
Lims ID: std8260 L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 28-Feb-2015 13:55:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-006
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:08:01 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: laveyt Date: 28-Feb-2015 14:18:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.405	5.405	0.000	99	803447	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	84	641741	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	92	344283	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	94	249926	20.0	20.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.121	5.121	0.000	88	287688	20.0	20.2	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	970499	20.0	20.2	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	97	370356	20.0	20.3	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	99	403300	20.0	21.4	
10 Chloromethane	50	1.784	1.784	0.000	99	367301	20.0	19.4	
11 Vinyl chloride	62	1.902	1.902	0.000	97	415088	20.0	20.9	
12 Butadiene	54	1.914	1.914	0.000	98	334879	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	91	269247	20.0	18.9	
14 Chloroethane	64	2.281	2.281	0.000	99	278164	20.0	20.3	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	97	526103	20.0	19.4	
16 Trichlorofluoromethane	101	2.529	2.529	0.000	79	481466	20.0	20.9	
17 Ethyl ether	59	2.718	2.718	0.000	88	206261	20.0	20.8	
18 Acrolein	56	2.837	2.837	0.000	95	59152	100.0	98.4	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	65	263215	20.0	22.2	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	97	479303	20.0	20.6	
21 Acetone	43	2.967	2.967	0.000	100	167647	40.0	39.0	
23 Iodomethane	142	3.097	3.097	0.000	97	549977	20.0	21.1	
24 Carbon disulfide	76	3.168	3.168	0.000	100	643505	20.0	22.2	M
27 3-Chloro-1-propene	41	3.227	3.227	0.000	89	168157	20.0	17.2	
26 Methyl acetate	43	3.239	3.239	0.000	96	900238	100.0	93.2	
28 Methylene Chloride	49	3.369	3.369	0.000	90	414105	20.0	18.9	
29 2-Methyl-2-propanol	59	3.405	3.405	0.000	99	289342	200.0	192.1	
30 Acrylonitrile	53	3.535	3.535	0.000	99	944557	200.0	191.2	
32 Methyl tert-butyl ether	73	3.559	3.559	0.000	94	793180	20.0	19.7	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	96	365441	20.0	21.7	
33 Hexane	57	3.795	3.795	0.000	90	155246	20.0	20.9	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	100	436040	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.000	97	211735	19.2	18.1	
40 2-Butanone (MEK)	43	4.411	4.411	0.000	89	212583	40.0	38.4	
39 cis-1,2-Dichloroethene	61	4.411	4.411	0.000	79	353939	20.0	19.8	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	83	205568	20.0	19.8	
45 Chlorobromomethane	49	4.612	4.612	0.000	87	193369	20.0	20.5	
46 Tetrahydrofuran	42	4.659	4.659	0.000	87	136166	40.0	38.7	
47 Chloroform	83	4.683	4.683	0.000	93	418220	20.0	19.3	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	97	316881	20.0	19.9	
49 Cyclohexane	84	4.919	4.919	0.000	82	294202	20.0	21.4	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	97	296047	20.0	20.7	
51 Carbon tetrachloride	117	5.002	5.002	0.000	97	305333	20.0	20.9	
52 Isobutyl alcohol	41	5.050	5.050	0.000	94	192645	500.0	474.3	
53 Benzene	78	5.180	5.180	0.000	95	1052194	20.0	20.6	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	96	348814	20.0	19.8	
56 n-Heptane	100	5.381	5.381	0.000	87	43226	20.0	21.3	
58 Trichloroethene	130	5.724	5.724	0.000	93	299769	20.0	21.8	
60 Methylcyclohexane	83	5.913	5.913	0.000	85	228778	20.0	21.0	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	94	245578	20.0	20.7	
64 Dibromomethane	174	6.044	6.044	0.000	89	214161	20.0	20.0	
63 1,4-Dioxane	88	6.044	6.044	0.000	35	68012	400.0	372.3	
65 Dichlorobromomethane	83	6.174	6.174	0.000	99	331587	20.0	19.5	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	93	341396	40.0	39.8	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	96	408145	20.0	19.6	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	93	433139	40.0	36.4	
70 Toluene	91	6.896	6.896	0.000	99	1104062	20.0	20.2	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	92	365916	20.0	19.9	
72 Ethyl methacrylate	69	7.156	7.156	0.000	88	298800	20.0	18.3	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	88	250493	20.0	20.9	
75 Tetrachloroethene	166	7.416	7.416	0.000	95	253442	20.0	21.1	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	88	443440	20.0	20.4	
77 2-Hexanone	43	7.487	7.487	0.000	93	321593	40.0	37.2	
79 Chlorodibromomethane	129	7.653	7.653	0.000	90	264304	20.0	20.8	
80 Ethylene Dibromide	107	7.771	7.771	0.000	97	259912	20.0	20.6	
82 Chlorobenzene	112	8.256	8.256	0.000	96	773830	20.0	20.2	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	94	271662	20.0	20.5	
84 Ethylbenzene	106	8.351	8.351	0.000	97	379905	20.0	21.3	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	96	463733	20.0	20.3	
86 o-Xylene	106	8.872	8.872	0.000	96	475248	20.0	20.6	
87 Styrene	104	8.883	8.883	0.000	95	795878	20.0	20.7	
88 Bromoform	173	9.073	9.073	0.000	97	185129	20.0	19.8	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	970049	20.0	20.8	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	98	339884	20.0	19.7	
92 Bromobenzene	156	9.570	9.570	0.000	91	364373	20.0	20.0	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	83	125858	20.0	19.8	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	73	91426	20.0	19.9	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	269141	20.0	19.7	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	268604	20.0	21.1	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	95	822332	20.0	20.8	
98 4-Chlorotoluene	126	9.877	9.877	0.000	96	298851	20.0	20.7	
99 tert-Butylbenzene	119	10.185	10.185	0.000	90	702556	20.0	20.2	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	93	903087	20.0	20.4	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	905121	20.0	20.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	99	584561	20.0	20.0	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	97	863479	20.0	21.1	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	96	615525	20.0	20.3	
108 n-Butylbenzene	91	11.002	11.002	0.000	96	658066	20.0	21.0	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	99	607286	20.0	19.6	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	93	92101	20.0	19.7	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	94	371684	20.0	20.4	
113 Hexachlorobutadiene	225	12.930	12.930	0.000	94	155846	20.0	20.6	
114 Naphthalene	128	13.001	13.001	0.000	97	979936	20.0	19.8	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	95	325275	20.0	20.8	
S 124 1,2-Dichloroethene, Total	96				0		40.0	41.5	
S 125 1,3-Dichloropropene, Total	75				0		40.0	39.5	
S 126 Xylenes, Total	106				0		40.0	40.9	
S 127 Trihalomethanes, Total	1				0		80.0	79.5	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

VMRGAS_00091	Amount Added:	16.00	Units: uL
VMAROLISTDW_00089	Amount Added:	16.00	Units: uL
VMRPRIMW_00114	Amount Added:	16.00	Units: uL
vm100is_stk_00022	Amount Added:	1.00	Units: uL
vm100ss_stk_00019	Amount Added:	8.00	Units: uL

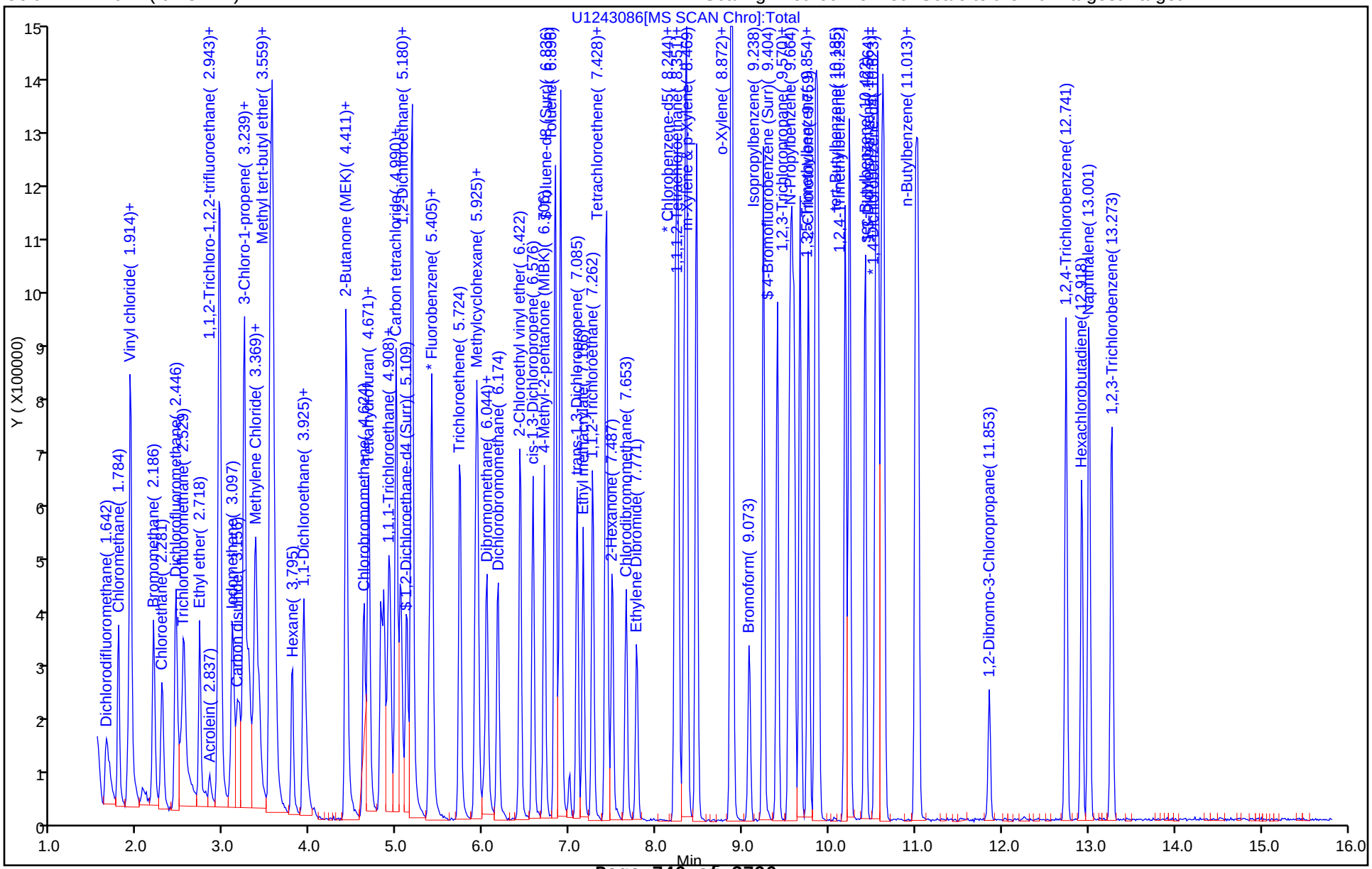
Report Date: 02-Mar-2015 15:08:03 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243086.D

Injection Date:	28-Feb-2015 13:55:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L4			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

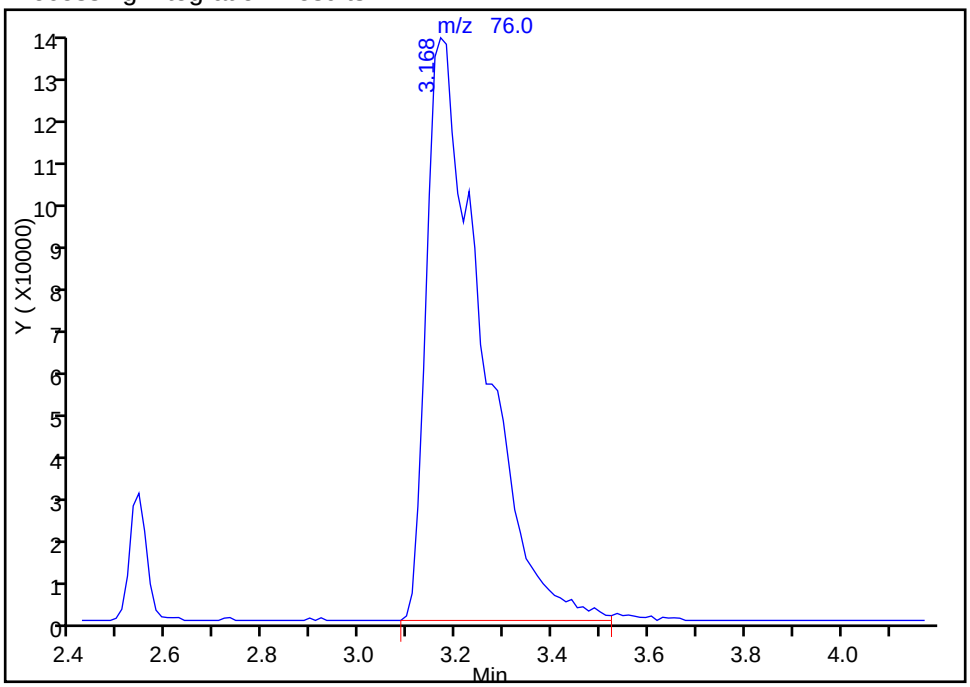
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243086.D
Injection Date: 28-Feb-2015 13:55:30 Instrument ID: A3UX12
Lims ID: std8260 L4
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12 Limit Group: MSV 8260DOD ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

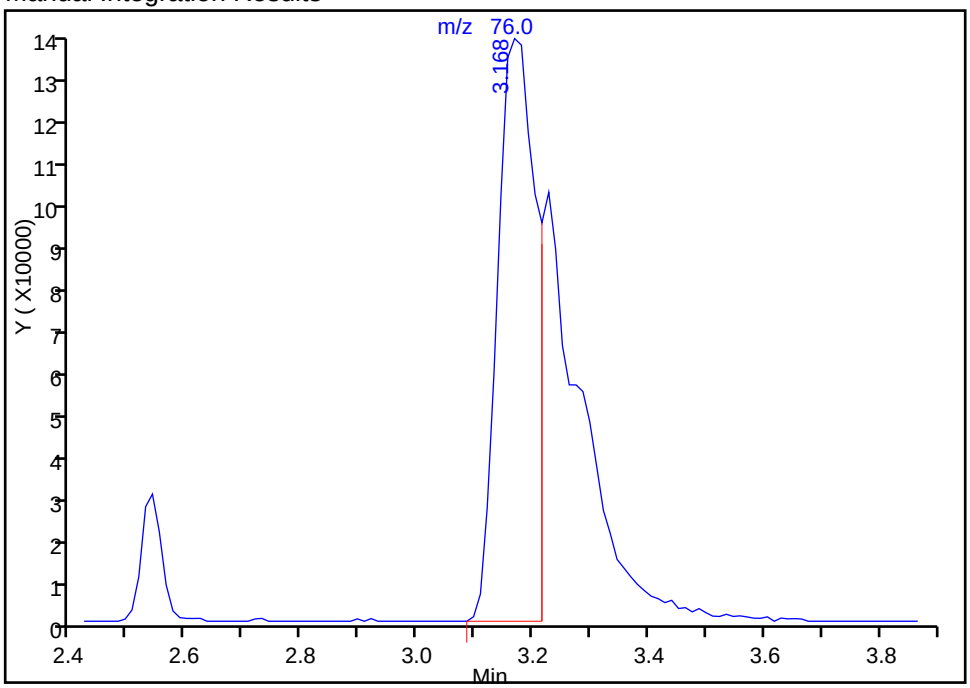
Processing Integration Results

RT: 3.17
Area: 1096176
Amount: 33.193804
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 643505
Amount: 22.175195
Amount Units: ug/l



Reviewer: laveyt, 28-Feb-2015 14:51:47
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243087.D
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Feb-2015 14:19:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-007
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:08:03 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: laveyt Date: 28-Feb-2015 14:50:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.405	-0.001	100	830022	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	665078	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	91	348873	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	94	521542	40.0	41.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.121	-0.012	90	609038	40.0	41.3	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	2033541	40.0	40.8	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	97	770093	40.0	40.8	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	100	692278	40.0	35.4	
10 Chloromethane	50	1.784	1.784	0.000	99	714491	40.0	36.6	
11 Vinyl chloride	62	1.902	1.902	0.000	98	810883	40.0	39.5	
12 Butadiene	54	1.914	1.914	0.000	97	580577	NC	NC	
13 Bromomethane	94	2.174	2.186	-0.012	91	535753	40.0	36.4	
14 Chloroethane	64	2.281	2.281	0.000	99	544743	40.0	38.5	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	97	1072913	40.0	38.3	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	86	841330	40.0	35.1	
17 Ethyl ether	59	2.718	2.718	0.000	89	421192	40.0	41.1	
18 Acrolein	56	2.837	2.837	0.000	97	126081	200.0	203.0	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	64	482807	40.0	39.4	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	98	945196	40.0	39.3	
21 Acetone	43	2.967	2.967	0.000	100	344334	80.0	79.5	
23 Iodomethane	142	3.097	3.097	0.000	98	1124500	40.0	41.7	
24 Carbon disulfide	76	3.168	3.168	0.000	99	1236951	40.0	41.3	
27 3-Chloro-1-propene	41	3.227	3.227	0.000	92	443170	40.0	44.8	
26 Methyl acetate	43	3.239	3.239	0.000	97	1899998	200.0	190.5	
28 Methylene Chloride	49	3.357	3.369	-0.012	90	842212	40.0	37.2	
29 2-Methyl-2-propanol	59	3.405	3.405	0.000	99	605265	400.0	388.9	
30 Acrylonitrile	53	3.535	3.535	0.000	98	1978933	400.0	387.7	
32 Methyl tert-butyl ether	73	3.559	3.559	0.000	94	1723761	40.0	41.5	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	95	719229	40.0	41.3	
33 Hexane	57	3.783	3.795	-0.012	88	301259	40.0	39.2	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	100	898163	40.0	41.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.000	97	432875	38.4	35.8	
40 2-Butanone (MEK)	43	4.411	4.411	0.000	96	440179	80.0	77.8	
39 cis-1,2-Dichloroethene	61	4.411	4.411	0.000	79	732069	40.0	39.6	
41 2,2-Dichloropropane	77	4.411	4.422	-0.011	84	428947	40.0	39.9	
45 Chlorobromomethane	49	4.612	4.612	0.000	87	404351	40.0	41.4	
46 Tetrahydrofuran	42	4.659	4.659	0.000	83	276686	80.0	77.4	
47 Chloroform	83	4.671	4.683	-0.012	93	897946	40.0	40.2	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	97	672581	40.0	40.8	
49 Cyclohexane	84	4.908	4.919	-0.011	85	548435	40.0	38.7	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	98	601127	40.0	40.7	
51 Carbon tetrachloride	117	5.002	5.002	0.000	97	620145	40.0	41.2	
52 Isobutyl alcohol	41	5.050	5.050	0.000	94	396789	1000.0	945.7	
53 Benzene	78	5.168	5.180	-0.012	95	2151258	40.0	40.8	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	97	719029	40.0	39.4	
56 n-Heptane	100	5.381	5.381	0.000	84	87747	40.0	41.9	
58 Trichloroethene	130	5.724	5.724	0.000	94	609700	40.0	42.9	
60 Methylcyclohexane	83	5.913	5.913	0.000	84	456105	40.0	40.4	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	92	514772	40.0	42.0	
64 Dibromomethane	174	6.043	6.044	-0.001	89	448205	40.0	40.5	
63 1,4-Dioxane	88	6.043	6.044	-0.001	36	142353	800.0	754.3	
65 Dichlorobromomethane	83	6.174	6.174	0.000	99	698237	40.0	39.7	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	93	730448	80.0	82.4	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	96	889501	40.0	41.4	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	94	926934	80.0	75.4	
70 Toluene	91	6.895	6.896	-0.001	99	2333683	40.0	41.2	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	91	791204	40.0	41.5	
72 Ethyl methacrylate	69	7.156	7.156	0.000	87	645592	40.0	38.2	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	90	511312	40.0	41.2	
75 Tetrachloroethene	166	7.416	7.416	0.000	97	496392	40.0	39.8	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	89	917817	40.0	40.8	
77 2-Hexanone	43	7.487	7.487	0.000	92	665833	80.0	74.4	
79 Chlorodibromomethane	129	7.653	7.653	0.000	89	572569	40.0	43.5	
80 Ethylene Dibromide	107	7.771	7.771	0.000	99	541835	40.0	41.4	
82 Chlorobenzene	112	8.256	8.256	0.000	98	1602609	40.0	40.4	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	94	573612	40.0	41.8	
84 Ethylbenzene	106	8.351	8.351	0.000	98	763149	40.0	41.4	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	95	959464	40.0	40.5	
86 o-Xylene	106	8.872	8.872	0.000	95	977340	40.0	40.9	
87 Styrene	104	8.883	8.883	0.000	95	1698226	40.0	42.6	
88 Bromoform	173	9.073	9.073	0.000	98	406523	40.0	42.0	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	2005196	40.0	41.5	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	98	697788	40.0	40.0	
92 Bromobenzene	156	9.570	9.570	0.000	88	752581	40.0	40.7	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	84	260952	40.0	40.5	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	80	191860	40.0	41.3	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	554284	40.0	40.1	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	554812	40.0	43.0	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	95	1703451	40.0	42.4	
98 4-Chlorotoluene	126	9.877	9.877	0.000	98	623651	40.0	42.6	
99 tert-Butylbenzene	119	10.185	10.185	0.000	89	1433550	40.0	40.7	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	94	1875253	40.0	41.7	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	1839338	40.0	41.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	99	1205387	40.0	40.6	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	97	1780644	40.0	43.0	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	96	1275766	40.0	41.5	
108 n-Butylbenzene	91	11.001	11.002	-0.001	96	1310833	40.0	41.3	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	98	1236038	40.0	39.4	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	91	185627	40.0	39.1	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	94	756120	40.0	41.0	
113 Hexachlorobutadiene	225	12.930	12.930	0.000	95	315178	40.0	41.1	
114 Naphthalene	128	13.001	13.001	0.000	97	2031337	40.0	40.6	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	96	669581	40.0	42.3	
S 124 1,2-Dichloroethene, Total	96				0		80.0	80.9	
S 125 1,3-Dichloropropene, Total	75				0		80.0	82.9	
S 126 Xylenes, Total	106				0		80.0	81.3	
S 127 Trihalomethanes, Total	1				0		160.0	165.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00091	Amount Added:	32.00	Units: uL
VMAROLISTDW_00089	Amount Added:	32.00	Units: uL
VMRPRIMW_00114	Amount Added:	32.00	Units: uL
vm100is_stk_00022	Amount Added:	1.00	Units: uL
vm100ss_stk_00019	Amount Added:	16.00	Units: uL

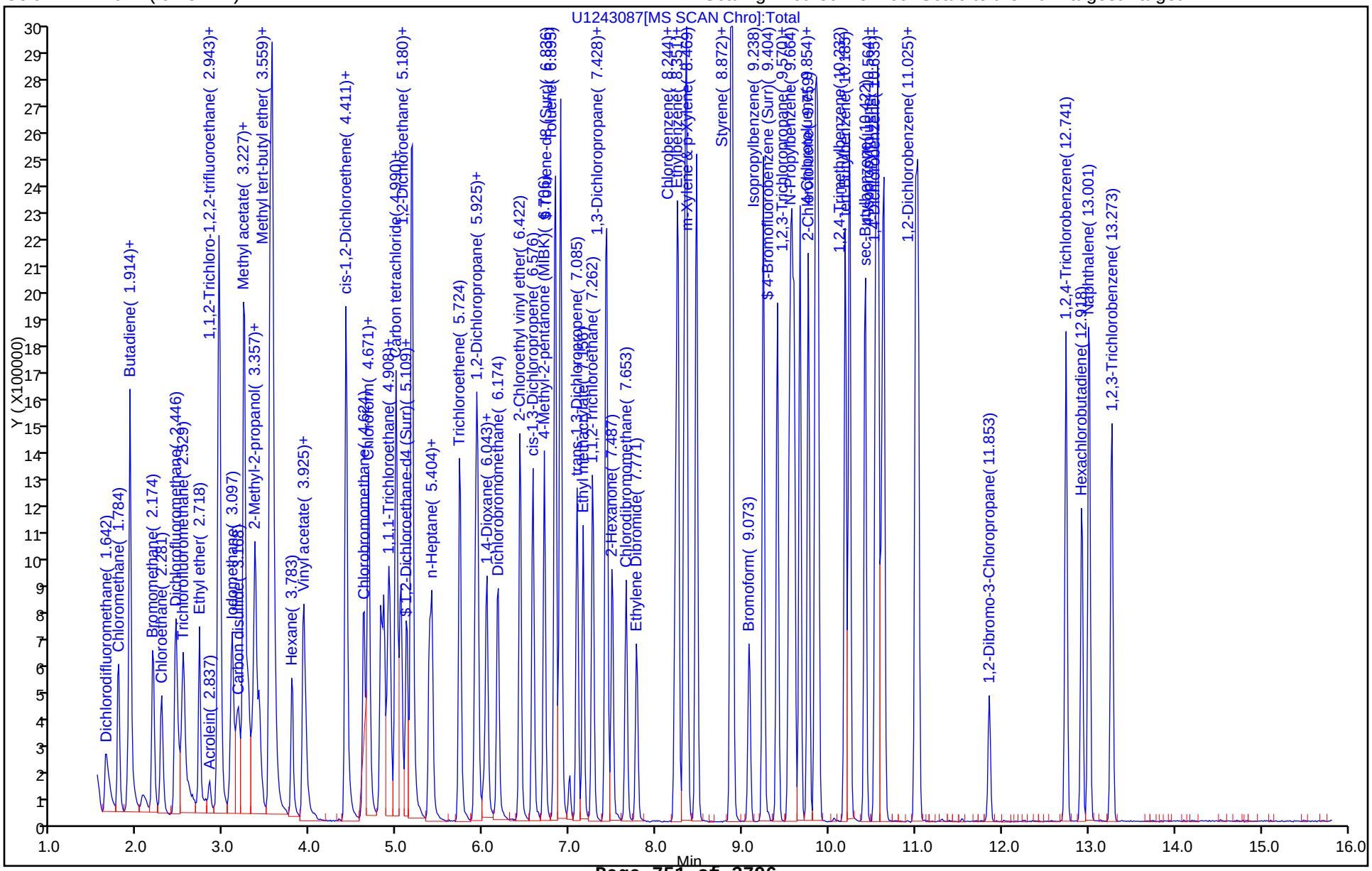
Report Date: 02-Mar-2015 15:08:04 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243087.D

Injection Date:	28-Feb-2015 14:19:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L5			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243088.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Feb-2015 14:44:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-008
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:08:05 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: laveyt Date: 28-Feb-2015 15:10:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.405	5.405	0.000	99	819037	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	688863	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	89	365075	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	94	1055893	80.0	85.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.121	-0.012	90	1219440	80.0	83.9	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	4252640	80.0	82.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	97	1619847	80.0	82.8	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	99	1595225	80.0	82.4	
10 Chloromethane	50	1.784	1.784	0.000	99	1522476	80.0	78.9	
11 Vinyl chloride	62	1.902	1.902	0.000	98	1773509	80.0	87.5	
12 Butadiene	54	1.914	1.914	0.000	98	1318430	NC	NC	
13 Bromomethane	94	2.162	2.186	-0.024	91	1207073	80.0	83.0	
14 Chloroethane	64	2.269	2.281	-0.012	99	1184246	80.0	84.7	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	97	2377930	80.0	86.1	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	98	1991593	80.0	83.8	
17 Ethyl ether	59	2.719	2.718	0.000	87	875192	80.0	86.5	
18 Acrolein	56	2.837	2.837	0.000	99	237894	400.0	388.2	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	65	1103543	80.0	91.2	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	98	2092215	80.0	88.1	
21 Acetone	43	2.955	2.967	-0.012	100	687459	160.0	162.9	
23 Iodomethane	142	3.085	3.097	-0.012	97	2324806	80.0	87.4	
24 Carbon disulfide	76	3.168	3.168	0.000	100	2579565	80.0	87.2	
27 3-Chloro-1-propene	41	3.227	3.227	0.000	90	749512	80.0	77.1	
26 Methyl acetate	43	3.239	3.239	0.000	97	3947892	400.0	401.0	
28 Methylene Chloride	49	3.357	3.369	-0.012	91	1747687	80.0	78.3	
29 2-Methyl-2-propanol	59	3.417	3.405	0.012	99	1285391	800.0	837.0	
30 Acrylonitrile	53	3.535	3.535	0.000	100	4165520	800.0	827.0	
32 Methyl tert-butyl ether	73	3.559	3.559	0.000	93	3544424	80.0	86.5	
31 trans-1,2-Dichloroethene	61	3.559	3.570	-0.011	97	1596113	80.0	92.9	
33 Hexane	57	3.783	3.795	-0.012	88	641567	80.0	84.6	
34 1,1-Dichloroethane	63	3.914	3.925	-0.011	100	1892275	80.0	88.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.000	97	887226	76.8	74.3	
40 2-Butanone (MEK)	43	4.411	4.411	0.000	96	904592	160.0	162.9	
39 cis-1,2-Dichloroethene	61	4.411	4.411	0.000	79	1516271	80.0	83.1	
41 2,2-Dichloropropane	77	4.411	4.422	-0.011	76	861463	80.0	81.2	
45 Chlorobromomethane	49	4.612	4.612	0.000	85	783295	80.0	81.3	
46 Tetrahydrofuran	42	4.659	4.659	0.000	85	573226	160.0	163.9	
47 Chloroform	83	4.671	4.683	-0.012	94	1851901	80.0	84.0	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	97	1476825	80.0	90.9	
49 Cyclohexane	84	4.908	4.919	-0.011	85	1215852	80.0	86.9	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	98	1293095	80.0	88.8	
51 Carbon tetrachloride	117	5.002	5.002	0.000	97	1379324	80.0	92.8	
52 Isobutyl alcohol	41	5.050	5.050	0.000	94	875939	2000.0	2115.7	
53 Benzene	78	5.168	5.180	-0.012	94	4549344	80.0	87.5	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	97	1464488	80.0	81.4	
56 n-Heptane	100	5.381	5.381	0.000	87	185823	80.0	89.8	
58 Trichloroethene	130	5.724	5.724	0.000	94	1270707	80.0	90.5	
60 Methylcyclohexane	83	5.913	5.913	0.000	85	1000996	80.0	89.9	
61 1,2-Dichloropropane	63	5.925	5.937	-0.012	93	1049254	80.0	86.7	
64 Dibromomethane	174	6.044	6.044	0.000	89	905528	80.0	82.9	
63 1,4-Dioxane	88	6.055	6.044	0.011	87	381026	1600.0	2046.1	
65 Dichlorobromomethane	83	6.174	6.174	0.000	99	1462055	80.0	84.3	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	93	1500349	160.0	171.5	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	97	1856627	80.0	87.6	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	94	1921723	160.0	158.5	
70 Toluene	91	6.896	6.896	0.000	99	4960886	80.0	84.6	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	91	1660814	80.0	84.1	
72 Ethyl methacrylate	69	7.156	7.156	0.000	87	1363456	80.0	77.8	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	90	1055636	80.0	82.1	
75 Tetrachloroethene	166	7.416	7.416	0.000	97	1105131	80.0	85.6	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	88	1895388	80.0	81.4	
77 2-Hexanone	43	7.487	7.487	0.000	93	1380849	160.0	148.9	
79 Chlorodibromomethane	129	7.653	7.653	0.000	90	1209551	80.0	88.8	
80 Ethylene Dibromide	107	7.771	7.771	0.000	98	1099604	80.0	81.1	
82 Chlorobenzene	112	8.256	8.256	0.000	98	3445192	80.0	83.9	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	95	1215251	80.0	85.5	
84 Ethylbenzene	106	8.351	8.351	0.000	98	1660428	80.0	86.9	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	96	2069193	80.0	84.3	
86 o-Xylene	106	8.872	8.872	0.000	95	2123578	80.0	85.7	
87 Styrene	104	8.883	8.883	0.000	95	3652803	80.0	88.4	
88 Bromoform	173	9.073	9.073	0.000	98	886567	80.0	88.5	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	4485632	80.0	89.6	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	98	1455476	80.0	79.7	
92 Bromobenzene	156	9.570	9.570	0.000	89	1624002	80.0	84.0	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	84	534295	80.0	79.3	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	90	423083	80.0	87.0	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	1239428	80.0	85.7	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	1195991	80.0	88.6	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	94	3728892	80.0	88.8	
98 4-Chlorotoluene	126	9.877	9.877	0.000	96	1327425	80.0	86.6	
99 tert-Butylbenzene	119	10.185	10.185	0.000	89	3183097	80.0	86.3	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	94	4106776	80.0	87.3	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	4124635	80.0	89.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	99	2619603	80.0	84.3	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	97	3916919	80.0	90.3	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	96	2758956	80.0	85.7	
108 n-Butylbenzene	91	11.002	11.002	0.000	97	3028233	80.0	91.2	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	99	2660219	80.0	80.9	
110 1,2-Dibromo-3-Chloropropan	157	11.854	11.853	0.001	91	389387	80.0	78.4	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	93	1640643	80.0	85.1	
113 Hexachlorobutadiene	225	12.930	12.930	0.000	96	683237	80.0	85.2	
114 Naphthalene	128	13.013	13.001	0.012	96	4396338	80.0	83.9	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	96	1449144	80.0	87.6	
S 124 1,2-Dichloroethene, Total	96				0		160.0	176.1	
S 125 1,3-Dichloropropene, Total	75				0		160.0	171.7	
S 126 Xylenes, Total	106				0		160.0	170.0	
S 127 Trihalomethanes, Total	1				0		320.0	345.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00091	Amount Added:	64.00	Units: uL
VMAROLISTDW_00089	Amount Added:	64.00	Units: uL
VMRPRIMW_00114	Amount Added:	64.00	Units: uL
vm100is_stk_00022	Amount Added:	1.00	Units: uL
vm100ss_stk_00019	Amount Added:	32.00	Units: uL

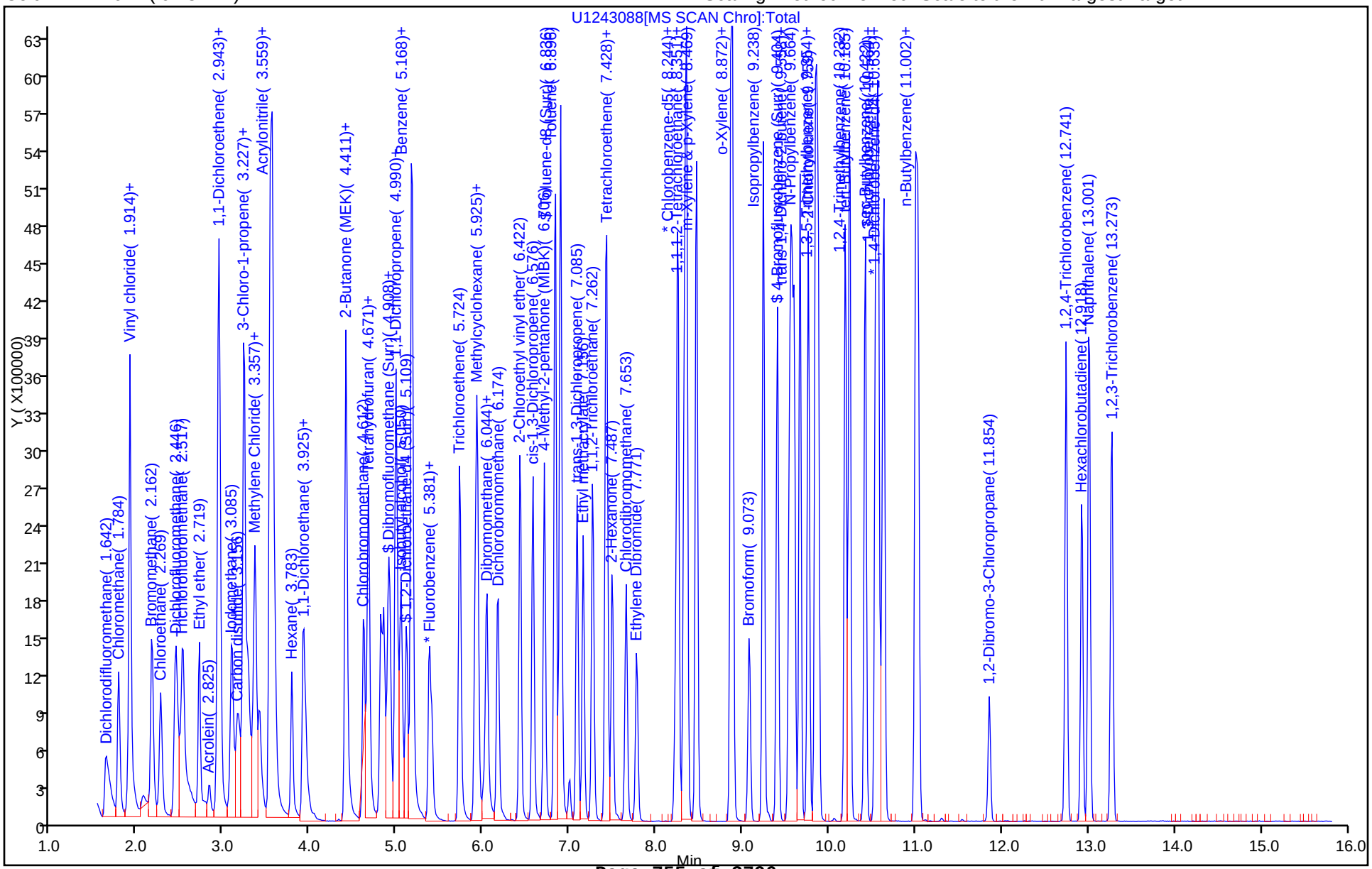
Report Date: 02-Mar-2015 15:08:06 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243088.D

Injection Date:	28-Feb-2015 14:44:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	std8260 L6			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-175604/7	UXM7071.D
Level 2	STD8260 240-175604/6	UXM7070.D
Level 3	STD8260 240-175604/5	UXM7069.D
Level 4	STD8260 240-175604/4	UXM7068.D
Level 5	STD8260 240-175604/3	UXM7067.D
Level 6	STD8260 240-175604/2	UXM7066.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1833 0.2041	0.1781	0.1744	0.1568	0.2090	Ave		0.1843			0.1000	10.6		15.0			
Chloromethane	0.2517 0.2544	0.2624	0.2546	0.2508	0.2480	Ave		0.2536			0.1000	1.9		15.0			
Vinyl chloride	0.2837 0.2921	0.2803	0.2773	0.2582	0.2802	Ave		0.2786			0.1000	4.0		15.0			
Butadiene	0.2508 0.2658	0.2588	0.2486	0.2172	0.2639	Ave		0.2509				7.1		15.0			
Bromomethane	0.1508 0.1269	0.1380	0.1275	0.1338	0.1289	Ave		0.1343			0.0500	6.8		15.0			
Chloroethane	0.1685 0.1630	0.1697	0.1592	0.1588	0.1615	Ave		0.1634				2.8		15.0			
Dichlorofluoromethane	0.3803 0.3626	0.3786	0.3496	0.3636	0.3596	Ave		0.3657				3.2		15.0			
Trichlorofluoromethane	0.2373 0.2626	0.2504	0.2297	0.2163	0.2607	Ave		0.2428			0.1000	7.5		15.0			
Ethyl ether	0.1803 0.1824	0.1847	0.1741	0.1841	0.1760	Ave		0.1803				2.4		15.0			
Acrolein	0.0215 0.0247	0.0233	0.0240	0.0216	0.0247	Ave		0.0233				6.2		15.0			
1,1-Dichloroethene	0.2005 0.2123	0.1917	0.1993	0.2051	0.2048	Ave		0.2023			0.1000	3.4		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1546 0.1634	0.1426	0.1497	0.1644	0.1685	Ave		0.1572			0.0500	6.3		15.0			
Acetone	0.0710 0.0550	0.0645	0.0573	0.0573	0.0576	Ave		0.0604			0.0500	10.1		15.0			
Iodomethane	0.3228 0.3200	0.3186	0.3109	0.3321	0.3049	Ave		0.3182				3.0		15.0			
Carbon disulfide	0.6144 0.6473	0.6200	0.6167	0.6180	0.6164	Ave		0.6221			0.1000	2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1334 0.1427	0.1387	0.1342	0.1426	0.1349	Ave		0.1377				3.1		15.0			
Methyl acetate	0.1300 0.1383	0.1321	0.1294	0.1357	0.1337	Ave		0.1332			0.1000	2.6		15.0			
Methylene Chloride	0.3536 0.2403	0.2921	0.2540	0.2585	0.2339	Lin1	0.1164	0.2357			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.0132 0.0125	0.0133	0.0123	0.0127	0.0127	Ave		0.0128				3.0		15.0			
Acrylonitrile	0.0675 0.0726	0.0660	0.0653	0.0723	0.0711	Ave		0.0691				4.8		15.0			
trans-1,2-Dichloroethene	0.2473 0.2416	0.2540	0.2379	0.2443	0.2312	Ave		0.2427			0.1000	3.2		15.0			
Methyl tert-butyl ether	0.5747 0.6168	0.5772	0.5867	0.6059	0.5892	Ave		0.5917			0.1000	2.8		15.0			
Hexane	0.0550 0.0638	0.0504	0.0570	0.0601	0.0649	Ave		0.0585				9.4		15.0			
1,1-Dichloroethane	0.4018 0.4100	0.3831	0.3874	0.4100	0.3890	Ave		0.3969			0.1000	3.0		15.0			
Vinyl acetate	0.1646 0.1765	0.1621	0.1610	0.1725	0.1681	Ave		0.1675				3.6		15.0			
2-Butanone (MEK)	0.0747 0.0760	0.0750	0.0727	0.0760	0.0766	Ave		0.0752			0.0500	1.9		15.0			
cis-1,2-Dichloroethene	0.2507 0.2661	0.2645	0.2547	0.2694	0.2488	Ave		0.2590			0.1000	3.4		15.0			
2,2-Dichloropropane	0.2655 0.2497	0.2482	0.2589	0.2602	0.2434	Ave		0.2543				3.3		15.0			
Bromochloromethane	0.1265 0.1238	0.1168	0.1176	0.1275	0.1170	Ave		0.1215				4.1		15.0			
Tetrahydrofuran	0.0510 0.0477	0.0502	0.0452	0.0467	0.0464	Ave		0.0479				4.8		15.0			
Chloroform	0.3796 0.3964	0.3849	0.3953	0.4052	0.3705	Ave		0.3887				3.3		15.0			
1,1,1-Trichloroethane	0.2899 0.3024	0.2855	0.2972	0.3084	0.2910	Ave		0.2957			0.1000	2.9		15.0			
Cyclohexane	0.3496 0.3871	0.3268	0.3615	0.3732	0.3956	Ave		0.3656			0.1000	6.9		15.0			
1,1-Dichloropropene	0.2946 0.3099	0.3016	0.2962	0.2984	0.2972	Ave		0.2996				1.8		15.0			
Carbon tetrachloride	0.2280 0.2579	0.2402	0.2379	0.2447	0.2479	Ave		0.2428			0.1000	4.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0045 0.0044	0.0046	0.0043	0.0044	0.0044	Ave		0.0044				2.4		15.0			
1,2-Dichloroethane	0.2488 0.2792	0.2747	0.2705	0.2842	0.2650	Ave		0.2704			0.1000	4.6		15.0			
Benzene	0.9963 1.0421	0.9831	0.9902	1.0340	0.9655	Ave		1.0019			0.5000	3.0		15.0			
n-Heptane	0.4108 0.1539	0.2574	0.1957	0.1662	0.1711	Lin1	0.2434	0.1498							0.9980		0.9900
Trichloroethene	0.2482 0.2624	0.2520	0.2554	0.2625	0.2472	Ave		0.2546			0.2000	2.6		15.0			
Methylcyclohexane	0.3760 0.4084	0.3601	0.3743	0.3879	0.4198	Ave		0.3877			0.1000	5.8		15.0			
1,2-Dichloropropane	0.2116 0.2377	0.2235	0.2308	0.2357	0.2207	Ave		0.2267			0.1000	4.4		15.0			
Dibromomethane	0.1112 0.1252	0.1202	0.1186	0.1268	0.1197	Ave		0.1203				4.6		15.0			
1,4-Dioxane	0.0014 0.0017	0.0017	0.0017	0.0017	0.0017	Ave		0.0017				7.0		15.0			
Bromodichloromethane	0.2601 0.2993	0.2722	0.2736	0.2929	0.2728	Ave		0.2785			0.1000	5.3		15.0			
2-Chloroethyl vinyl ether	0.1069 0.1290	0.1150	0.1168	0.1249	0.1236	Ave		0.1194				6.7		15.0			
cis-1,3-Dichloropropene	0.2996 0.3589	0.3198	0.3178	0.3421	0.3297	Ave		0.3280			0.1500	6.3		15.0			
4-Methyl-2-pentanone (MIBK)	0.1423 0.1538	0.1486	0.1430	0.1525	0.1512	Ave		0.1486			0.0500	3.3		15.0			
Toluene	1.4247 1.5718	1.4555	1.4684	1.5094	1.4540	Ave		1.4806			0.4000	3.5		15.0			
trans-1,3-Dichloropropene	0.3439 0.4051	0.3727	0.3697	0.3854	0.3793	Ave		0.3760			0.1000	5.4		15.0			
Ethyl methacrylate	0.2923 0.3233	0.2909	0.2973	0.3095	0.3102	Ave		0.3039				4.2		15.0			
1,1,2-Trichloroethane	0.2707 0.2654	0.2634	0.2612	0.2725	0.2605	Ave		0.2656			0.1000	1.9		15.0			
1,3-Dichloropropane	0.4657 0.4872	0.4534	0.4672	0.4845	0.4670	Ave		0.4708				2.7		15.0			
Tetrachloroethene	0.2854 0.2886	0.2689	0.2748	0.2870	0.2778	Ave		0.2804			0.2000	2.8		15.0			
2-Hexanone	0.1440 0.1445	0.1434	0.1447	0.1443	0.1474	Ave		0.1447			0.0500	1.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.2611 0.3026	0.2588	0.2617	0.2728	0.2748	Ave		0.2720				6.0		15.0			
1,2-Dibromoethane	0.2394 0.2611	0.2528	0.2444	0.2649	0.2503	Ave		0.2521				3.8		15.0			
Chlorobenzene	0.9603 0.9689	0.9350	0.9438	0.9738	0.9128	Ave		0.9491			0.3000	2.4		15.0			
1,1,1,2-Tetrachloroethane	0.2861 0.3202	0.2998	0.2980	0.3138	0.2947	Ave		0.3021				4.2		15.0			
Ethylbenzene	0.4672 0.5352	0.5035	0.5112	0.5240	0.5046	Ave		0.5076				4.6		15.0			
m-Xylene & p-Xylene	0.5783 0.6653	0.6454	0.6325	0.6657	0.6261	Ave		0.6356				5.1		15.0			
o-Xylene	0.5843 0.6555	0.5765	0.6126	0.6501	0.6056	Ave		0.6141				5.3		15.0			
Styrene	0.9252 1.0625	0.9554	0.9576	1.0266	0.9787	Ave		0.9843			0.3000	5.2		15.0			
Bromoform	0.1498 0.1896	0.1497	0.1590	0.1714	0.1748	Ave		0.1657			0.1000	9.5		15.0			
Isopropylbenzene	1.5435 1.7660	1.5369	1.5930	1.6826	1.6262	Ave		1.6247			0.1000	5.4		15.0			
1,1,2,2-Tetrachloroethane	0.6061 0.5908	0.5888	0.5615	0.5956	0.5777	Ave		0.5868			0.3000	2.6		15.0			
Bromobenzene	0.7526 0.7383	0.7366	0.7011	0.7216	0.6869	Ave		0.7228				3.4		15.0			
1,2,3-Trichloropropane	0.1800 0.1810	0.1968	0.1757	0.1820	0.1785	Ave		0.1823				4.1		15.0			
trans-1,4-Dichloro-2-butene	0.1513 0.1508	0.1307	0.1391	0.1422	0.1464	Ave		0.1434				5.5		15.0			
N-Propylbenzene	0.7824 0.8278	0.7676	0.7975	0.7939	0.7805	Ave		0.7916				2.6		15.0			
2-Chlorotoluene	0.7373 0.6951	0.6650	0.6740	0.6840	0.6452	Ave		0.6834				4.6		15.0			
1,3,5-Trimethylbenzene	2.3143 2.5771	2.3696	2.3861	2.4000	2.3390	Ave		2.3977				3.9		15.0			
4-Chlorotoluene	0.7520 0.7364	0.7207	0.7475	0.7196	0.6860	Ave		0.7270				3.3		15.0			
tert-Butylbenzene	2.0967 2.2264	1.9952	2.0926	2.0850	2.0441	Ave		2.0900				3.7		15.0			
1,2,4-Trimethylbenzene	2.4434 2.6940	2.4789	2.4417	2.5599	2.4309	Ave		2.5081				4.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	3.0228 3.2181	2.8658	2.9969	3.0086	2.9700	Ave		3.0137				3.8		15.0			
1,3-Dichlorobenzene	1.4178 1.4588	1.4468	1.4062	1.4177	1.3387	Ave		1.4143			0.6000	3.0		15.0			
4-Isopropyltoluene	2.6290 2.8568	2.5110	2.5616	2.6250	2.5941	Ave		2.6296				4.6		15.0			
1,4-Dichlorobenzene	1.5483 1.4920	1.4035	1.4295	1.4519	1.3664	Ave		1.4486			0.5000	4.5		15.0			
n-Butylbenzene	2.0632 2.3894	2.1608	2.1481	2.2375	2.1731	Ave		2.1953				5.0		15.0			
1,2-Dichlorobenzene	1.3829 1.3600	1.3509	1.3013	1.3534	1.2795	Ave		1.3380			0.4000	2.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0879 0.1062	0.0925	0.0937	0.1035	0.1059	Ave		0.0983			0.0500	8.0		15.0			
1,2,4-Trichlorobenzene	0.8049 0.8643	0.8367	0.8059	0.8563	0.8197	Ave		0.8313			0.2000	3.1		15.0			
Hexachlorobutadiene	0.3756 0.3321	0.3394	0.3346	0.3519	0.3344	Ave		0.3447				4.9		15.0			
Naphthalene	1.7275 1.8957	1.7546	1.7541	1.8123	1.8417	Ave		1.7977				3.6		15.0			
1,2,3-Trichlorobenzene	0.7772 0.7381	0.7117	0.7428	0.7603	0.7300	Ave		0.7434				3.1		15.0			
Dibromofluoromethane (Surr)	0.2071 0.2051	0.2005	0.1961	0.1941	0.1965	Ave		0.1999				2.6		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2362 0.2240	0.2190	0.2141	0.2115	0.2138	Ave		0.2198				4.2		15.0			
Toluene-d8 (Surr)	1.1963 1.2683	1.1869	1.1733	1.1439	1.1943	Ave		1.1938				3.5		15.0			
4-Bromofluorobenzene (Surr)	0.4380 0.4362	0.4242	0.4298	0.4207	0.4229	Ave		0.4286				1.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-175604/7	UXM7071.D
Level 2	STD8260 240-175604/6	UXM7070.D
Level 3	STD8260 240-175604/5	UXM7069.D
Level 4	STD8260 240-175604/4	UXM7068.D
Level 5	STD8260 240-175604/3	UXM7067.D
Level 6	STD8260 240-175604/2	UXM7066.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	28917 1337941	55676	140857	242698	654342	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	39695 1668028	82030	205715	388184	776582	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	44743 1914766	87630	223994	399722	877355	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	39558 1742621	80915	200871	336247	826213	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	23786 832148	43161	103009	207068	403753	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	26576 1068302	53063	128633	245799	505635	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	59976 2377077	118360	282460	562834	1126131	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	37426 1721199	78305	185528	334848	816184	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	28439 1195543	57764	140678	285000	551195	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	16994 810121	36457	96810	166842	387150	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	31625 1391709	59936	161038	317431	641262	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	24378 1071088	44591	120932	254560	527554	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	22402 720650	40303	92528	177442	360826	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	50914 2097802	99607	251156	514079	954782	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	96908 4243718	193845	498244	956729	1930056	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	21041 935602	43357	108379	220761	422434	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	102515 4532585	206540	522740	1050530	2092779	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	55764 1575545	91345	205234	400235	732381	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	20864 821282	41529	99599	196624	398073	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	106416 4762499	206234	527388	1119754	2227630	10.0 400	20.0	50.0	100	200
trans-1,2-Dichloroethene	FB	Ave	39000 1584112	79405	192169	378226	724105	1.00 40.0	2.00	5.00	10.0	20.0
Methyl tert-butyl ether	FB	Ave	90640 4043206	180473	473972	937984	1844898	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	8682 418195	15768	46020	93096	203111	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	63377 2687459	119780	312956	634661	1218029	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	24926 1110740	48645	124883	256374	505225	0.960 38.4	1.92	4.80	9.60	19.2
2-Butanone (MEK)	FB	Ave	23553 995821	46903	117472	235342	479775	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	39548 1744211	82689	205785	417073	779088	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	41868 1637169	77591	209114	402860	762113	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	19945 811318	36532	95005	197438	366316	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	16100 625734	31410	73033	144627	290335	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	59879 2598769	120340	319367	627339	1160076	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	45727 1982397	89274	240082	477408	911244	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	55140 2537686	102189	292014	577795	1238714	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	46457 2031242	94286	239308	461974	930586	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	35954 1690925	75098	192165	378785	776323	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	17879 728819	35877	86934	168927	345672	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	39243 1830226	85876	218533	439901	829916	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	157136 6831596	307377	799946	1600731	3023331	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Lin1	64799 1008824	80485	158070	257320	535664	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	39145 1720443	78784	206338	406306	774022	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	59299 2677033	112582	302407	600527	1314375	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	33374 1558233	69884	186424	364937	691031	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	17545 820681	37594	95833	196259	374840	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	4528 216590	10888	27293	53729	107755	20.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	41017 1962005	85112	220994	453434	854238	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	33706 1691518	71924	188701	386667	774211	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	47246 2352543	99996	256701	529653	1032269	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	44881 2016114	92946	231016	472020	947026	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	158809 7321596	327977	836157	1657841	3233786	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	38332 1886900	83980	210531	423296	843701	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	32579 1506095	65551	169293	339950	689972	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	30179 1236313	59363	148725	299335	579355	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	51904 2269203	102163	266053	532175	1038725	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	31809 1344334	60595	156477	315179	617820	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	32101 1345845	64637	164796	316954	655516	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	29103 1409447	58315	149029	299624	611228	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	26687 1216021	56955	139164	290915	556631	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	107038 4513086	210696	537400	1069581	2030052	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	31888 1491712	67561	169683	344706	655526	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	52078 2492722	113464	291113	575507	1122373	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	64465 3099024	145431	360143	731190	1392483	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	65124 3053079	129904	348841	714012	1346892	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	103130 4949000	215294	545252	1127566	2176702	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	16692 882996	33744	90533	188261	388875	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	172044 8225855	346325	907101	1848075	3616868	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	36065 1553377	71837	179157	380619	739115	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	44780 1941323	89860	223701	461127	878811	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	10712 476037	24014	56075	116273	228346	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	9003 396411	15946	44369	90862	187283	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	46555 2176692	93650	254462	507345	998554	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	43871 1827779	81124	215043	437074	825480	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	137702 6776517	289090	761323	1533706	2992535	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	44743 1936347	87928	238520	459872	877636	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	124757 5854333	243411	667699	1332376	2615271	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	145383 7083933	302427	779068	1635840	3110140	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	179857 8462061	349623	956212	1922604	3799898	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	84359 3835946	176506	448685	905984	1712753	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	156428 7511918	306339	817341	1677489	3318892	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	92128 3923201	171223	456122	927811	1748229	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 175604

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	122761 6282819	263622	685404	1429823	2780296	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	82283 3576090	164804	415221	864865	1637059	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	5233 279200	11289	29908	66116	135520	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	47895 2272778	102074	257150	547207	1048708	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	22350 873236	41409	106764	224846	427869	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	102789 4984706	214063	559666	1158120	2356360	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	46243 1940882	86828	237020	485845	933941	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	32663 1344293	62674	158433	300503	615314	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	37257 1468188	68480	172978	327407	669473	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	133342 5907752	267445	668083	1256422	2656188	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	48826 2031763	95592	244718	462107	940483	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7066.D
Lims ID: STD8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Apr-2015 12:59:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-002
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:36 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1638886	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	83	1164493	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	657371	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	1344293	40.0	41.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	1468188	40.0	40.8	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	5907752	40.0	42.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	2031763	40.0	40.7	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	1337941	40.0	44.3	
10 Chloromethane	50	1.769	1.769	0.000	99	1668028	40.0	40.1	
11 Vinyl chloride	62	1.888	1.888	0.000	98	1914766	40.0	41.9	
12 Butadiene	54	1.923	1.923	0.000	0	1742621	40.0	42.4	
13 Bromomethane	94	2.220	2.220	0.000	90	832148	40.0	37.8	
14 Chloroethane	64	2.326	2.327	-0.001	99	1068302	40.0	39.9	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	2377077	40.0	39.7	
16 Trichlorofluoromethane	101	2.575	2.564	0.011	97	1721199	40.0	43.3	
17 Ethyl ether	59	2.836	2.837	0.000	88	1195543	40.0	40.5	
18 Acrolein	56	2.943	2.943	0.000	100	810121	200.0	212.1	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	1391709	40.0	42.0	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	91	1071088	40.0	41.6	
21 Acetone	43	3.085	3.086	-0.001	76	720650	80.0	72.8	
23 Iodomethane	142	3.180	3.192	-0.012	96	2097802	40.0	40.2	
24 Carbon disulfide	76	3.251	3.263	-0.012	98	4243718	40.0	41.6	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	94	935602	40.0	41.4	
27 Methyl acetate	43	3.394	3.394	0.000	97	4532585	200.0	207.6	
28 Methylene Chloride	84	3.477	3.489	-0.012	89	1575545	40.0	40.3	
29 2-Methyl-2-propanol	59	3.571	3.572	-0.001	99	821282	400.0	391.6	
30 Acrylonitrile	53	3.690	3.690	0.000	99	4762499	400.0	420.3	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	99	1584112	40.0	39.8	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	4043206	40.0	41.7	
33 Hexane	86	3.987	3.999	-0.012	89	418195	40.0	43.6	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	2687459	40.0	41.3	
35 Vinyl acetate	43	4.141	4.141	0.000	97	1110740	38.4	40.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	1744211	40.0	41.1	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	57	995821	80.0	80.8	
41 2,2-Dichloropropane	77	4.603	4.610	-0.007	87	1637169	40.0	39.3	
45 Chlorobromomethane	128	4.805	4.805	0.000	94	811318	40.0	40.7	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	625734	80.0	79.7	
47 Chloroform	83	4.864	4.864	0.000	92	2598769	40.0	40.8	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	1982397	40.0	40.9	
49 Cyclohexane	56	5.101	5.113	-0.012	87	2537686	40.0	42.3	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	99	2031242	40.0	41.4	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	1690925	40.0	42.5	
52 Isobutyl alcohol	41	5.232	5.232	0.000	95	728819	1000.0	1001.0	
54 Benzene	78	5.362	5.362	0.000	94	6831596	40.0	41.6	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	54	1830226	40.0	41.3	
56 n-Heptane	57	5.576	5.588	-0.012	89	1008824	40.0	39.5	
58 Trichloroethene	130	5.908	5.908	0.000	96	1720443	40.0	41.2	
60 Methylcyclohexane	83	6.085	6.086	-0.001	89	2677033	40.0	42.1	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	97	1558233	40.0	41.9	
63 Dibromomethane	93	6.192	6.192	0.000	92	820681	40.0	41.6	
64 1,4-Dioxane	88	6.204	6.204	0.000	88	216590	800.0	795.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	1962005	40.0	43.0	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	1691518	80.0	86.5	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	2352543	40.0	43.8	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	96	2016114	80.0	82.8	
70 Toluene	91	7.022	7.023	-0.001	98	7321596	40.0	42.5	
71 trans-1,3-Dichloropropene	75	7.188	7.200	-0.012	90	1886900	40.0	43.1	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	87	1506095	40.0	42.6	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	89	1236313	40.0	40.0	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	88	2269203	40.0	41.4	
75 Tetrachloroethene	164	7.520	7.532	-0.012	95	1344334	40.0	41.2	
76 2-Hexanone	43	7.580	7.580	0.000	94	1345845	80.0	79.9	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	1409447	40.0	44.5	
80 Ethylene Dibromide	107	7.841	7.853	-0.012	99	1216021	40.0	41.4	
82 Chlorobenzene	112	8.303	8.303	0.000	96	4513086	40.0	40.8	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	1491712	40.0	42.4	
84 Ethylbenzene	106	8.398	8.398	0.000	98	2492722	40.0	42.2	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	96	3099024	40.0	41.9	
86 o-Xylene	106	8.884	8.884	0.000	96	3053079	40.0	42.7	
87 Styrene	104	8.896	8.896	0.000	93	4949000	40.0	43.2	
88 Bromoform	173	9.074	9.074	0.000	99	882996	40.0	45.8	
89 Isopropylbenzene	105	9.240	9.240	0.000	94	8225855	40.0	43.5	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	1553377	40.0	40.3	
93 Bromobenzene	156	9.536	9.537	-0.001	92	1941323	40.0	40.9	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	476037	40.0	39.7	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	78	396411	40.0	42.1	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	2176692	40.0	41.8	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	1827779	40.0	40.7	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	6776517	40.0	43.0	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	1936347	40.0	40.5	
102 tert-Butylbenzene	119	10.129	10.129	0.000	89	5854333	40.0	42.6	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	7083933	40.0	43.0	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	8462061	40.0	42.7	
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	97	3835946	40.0	41.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.485	10.485	0.000	97	7511918	40.0	43.5	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	96	3923201	40.0	41.2	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	6282819	40.0	43.5	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	3576090	40.0	40.7	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	91	279200	40.0	43.2	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	2272778	40.0	41.6	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	873236	40.0	38.5	
117 Naphthalene	128	12.750	12.750	0.000	96	4984706	40.0	42.2	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	1940882	40.0	39.7	
S 131 1,2-Dichloroethene, Total	96				0		80.0	80.9	
S 132 1,3-Dichloropropene, Total	75				0		80.0	86.9	
S 133 Xylenes, Total	106				0		80.0	84.6	
S 134 Trihalomethanes, Total	1				0		160.0	174.0	

Reagents:

VMRPRIMW_00120	Amount Added:	32.00	Units: uL
VMRGAS_00097	Amount Added:	32.00	Units: uL
VMAROLISTDW_00095	Amount Added:	32.00	Units: uL
vm50ss_00196	Amount Added:	32.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

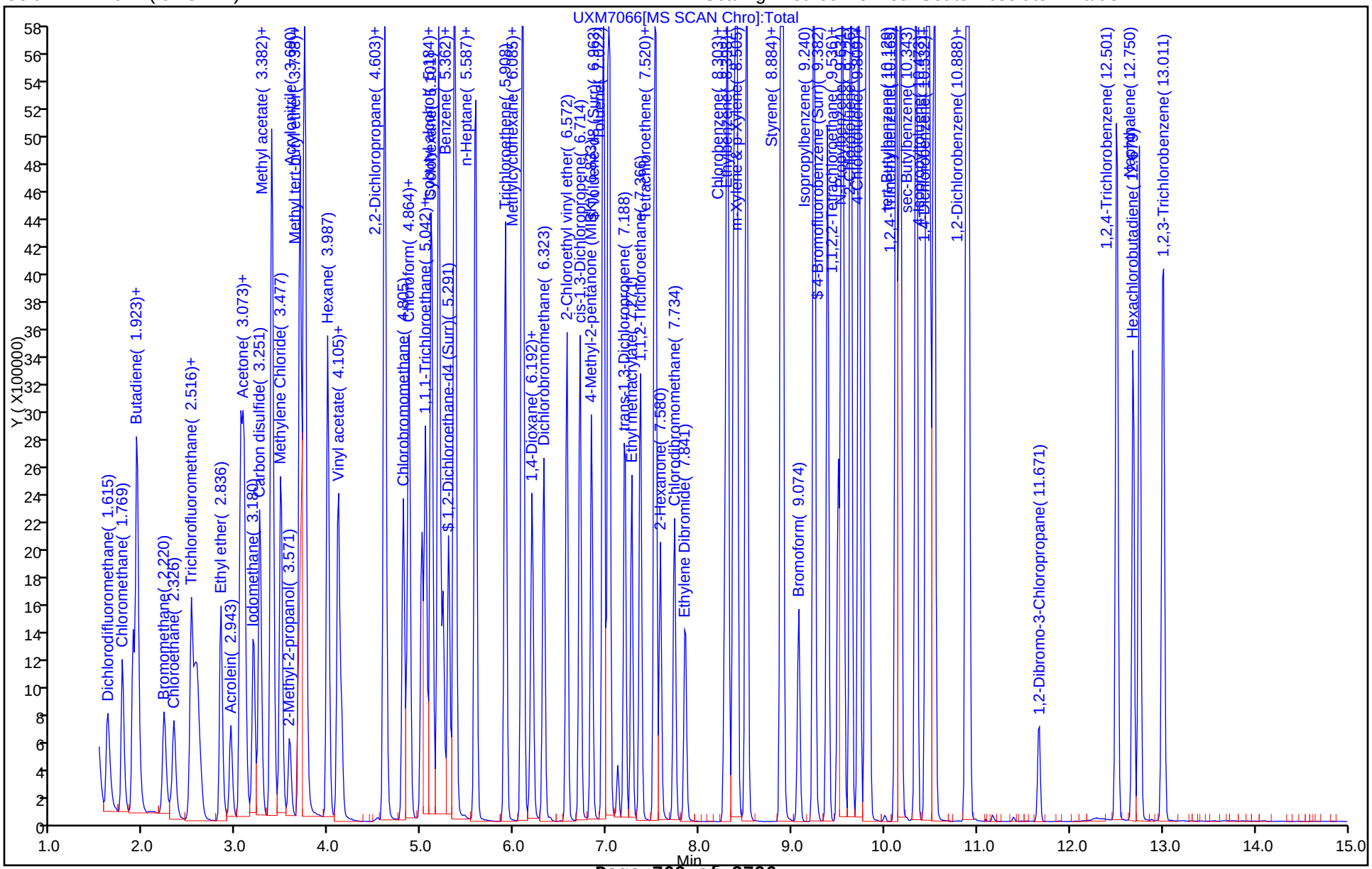
Report Date: 09-Apr-2015 07:46:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7066.D

Injection Date:	08-Apr-2015 12:59:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L6			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7067.D
Lims ID: STD8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Apr-2015 13:22:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-003
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:38 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1565654	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	83	1112052	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	92	639708	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	95	615314	20.0	19.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	669473	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	2656188	20.0	20.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	940483	20.0	19.7	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	654342	20.0	22.7	
10 Chloromethane	50	1.769	1.769	0.000	99	776582	20.0	19.6	
11 Vinyl chloride	62	1.888	1.888	0.000	98	877355	20.0	20.1	
12 Butadiene	54	1.935	1.935	0.000	0	826213	20.0	21.0	
13 Bromomethane	94	2.232	2.232	0.000	88	403753	20.0	19.2	
14 Chloroethane	64	2.326	2.326	0.000	99	505635	20.0	19.8	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	1126131	20.0	19.7	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	816184	20.0	21.5	
17 Ethyl ether	59	2.836	2.836	0.000	89	551195	20.0	19.5	
18 Acrolein	56	2.943	2.943	0.000	98	387150	100.0	106.1	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	641262	20.0	20.2	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	93	527554	20.0	21.4	
21 Acetone	43	3.085	3.085	0.000	99	360826	40.0	38.1	
23 Iodomethane	142	3.192	3.192	0.000	96	954782	20.0	19.2	
24 Carbon disulfide	76	3.263	3.263	0.000	98	1930056	20.0	19.8	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	94	422434	20.0	19.6	
27 Methyl acetate	43	3.394	3.394	0.000	97	2092779	100.0	100.4	
28 Methylene Chloride	84	3.489	3.489	0.000	88	732381	20.0	19.4	
29 2-Methyl-2-propanol	59	3.583	3.583	0.000	99	398073	200.0	198.7	
30 Acrylonitrile	53	3.690	3.690	0.000	99	2227630	200.0	205.8	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	98	724105	20.0	19.1	
31 Methyl tert-butyl ether	73	3.750	3.750	0.000	94	1844898	20.0	19.9	
33 Hexane	86	3.987	3.987	0.000	90	203111	20.0	22.2	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	1218029	20.0	19.6	
35 Vinyl acetate	43	4.141	4.141	0.000	96	505225	19.2	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	779088	20.0	19.2	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	60	479775	40.0	40.8	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	87	762113	20.0	19.1	
45 Chlorobromomethane	128	4.805	4.805	0.000	93	366316	20.0	19.3	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	290335	40.0	38.7	
47 Chloroform	83	4.864	4.864	0.000	92	1160076	20.0	19.1	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	911244	20.0	19.7	
49 Cyclohexane	56	5.113	5.113	0.000	87	1238714	20.0	21.6	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	99	930586	20.0	19.8	
51 Carbon tetrachloride	117	5.196	5.196	0.000	98	776323	20.0	20.4	
52 Isobutyl alcohol	41	5.232	5.232	0.000	92	345672	500.0	497.0	
54 Benzene	78	5.362	5.362	0.000	94	3023331	20.0	19.3	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	829916	20.0	19.6	
56 n-Heptane	57	5.588	5.588	0.000	87	535664	20.0	21.2	
58 Trichloroethene	130	5.908	5.908	0.000	97	774022	20.0	19.4	
60 Methylcyclohexane	83	6.098	6.098	0.000	89	1314375	20.0	21.7	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	76	691031	20.0	19.5	
63 Dibromomethane	93	6.192	6.192	0.000	97	374840	20.0	19.9	
64 1,4-Dioxane	88	6.204	6.204	0.000	90	107755	400.0	414.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	854238	20.0	19.6	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	774211	40.0	41.4	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	1032269	20.0	20.1	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	947026	40.0	40.7	
70 Toluene	91	7.022	7.022	0.000	98	3233786	20.0	19.6	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	90	843701	20.0	20.2	
72 Ethyl methacrylate	69	7.271	7.271	0.000	88	689972	20.0	20.4	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	579355	20.0	19.6	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	88	1038725	20.0	19.8	
75 Tetrachloroethene	164	7.532	7.532	0.000	92	617820	20.0	19.8	
76 2-Hexanone	43	7.580	7.580	0.000	95	655516	40.0	40.7	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	611228	20.0	20.2	
80 Ethylene Dibromide	107	7.853	7.853	0.000	98	556631	20.0	19.9	
82 Chlorobenzene	112	8.303	8.303	0.000	96	2030052	20.0	19.2	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	655526	20.0	19.5	
84 Ethylbenzene	106	8.398	8.398	0.000	98	1122373	20.0	19.9	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	96	1392483	20.0	19.7	
86 o-Xylene	106	8.884	8.884	0.000	94	1346892	20.0	19.7	
87 Styrene	104	8.896	8.896	0.000	94	2176702	20.0	19.9	
88 Bromoform	173	9.074	9.074	0.000	99	388875	20.0	21.1	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	3616868	20.0	20.0	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	739115	20.0	19.7	
93 Bromobenzene	156	9.536	9.536	0.000	92	878811	20.0	19.0	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	228346	20.0	19.6	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	75	187283	20.0	20.4	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	998554	20.0	19.7	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	825480	20.0	18.9	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	2992535	20.0	19.5	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	877636	20.0	18.9	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	2615271	20.0	19.6	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	3110140	20.0	19.4	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	3799898	20.0	19.7	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	98	1712753	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	3318892	20.0	19.7	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	95	1748229	20.0	18.9	
111 n-Butylbenzene	91	10.876	10.876	0.000	98	2780296	20.0	19.8	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	1637059	20.0	19.1	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	90	135520	20.0	21.6	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	1048708	20.0	19.7	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	427869	20.0	19.4	
117 Naphthalene	128	12.750	12.750	0.000	96	2356360	20.0	20.5	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	933941	20.0	19.6	
S 131 1,2-Dichloroethene, Total	96				0		40.0	38.3	
S 132 1,3-Dichloropropene, Total	75				0		40.0	40.3	
S 133 Xylenes, Total	106				0		40.0	39.4	
S 134 Trihalomethanes, Total	1				0		80.0	80.0	

Reagents:

VMRPRIMW_00120	Amount Added:	16.00	Units: uL
VMRGAS_00097	Amount Added:	16.00	Units: uL
VMAROLISTDW_00095	Amount Added:	16.00	Units: uL
vm50ss_stk_00065	Amount Added:	16.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

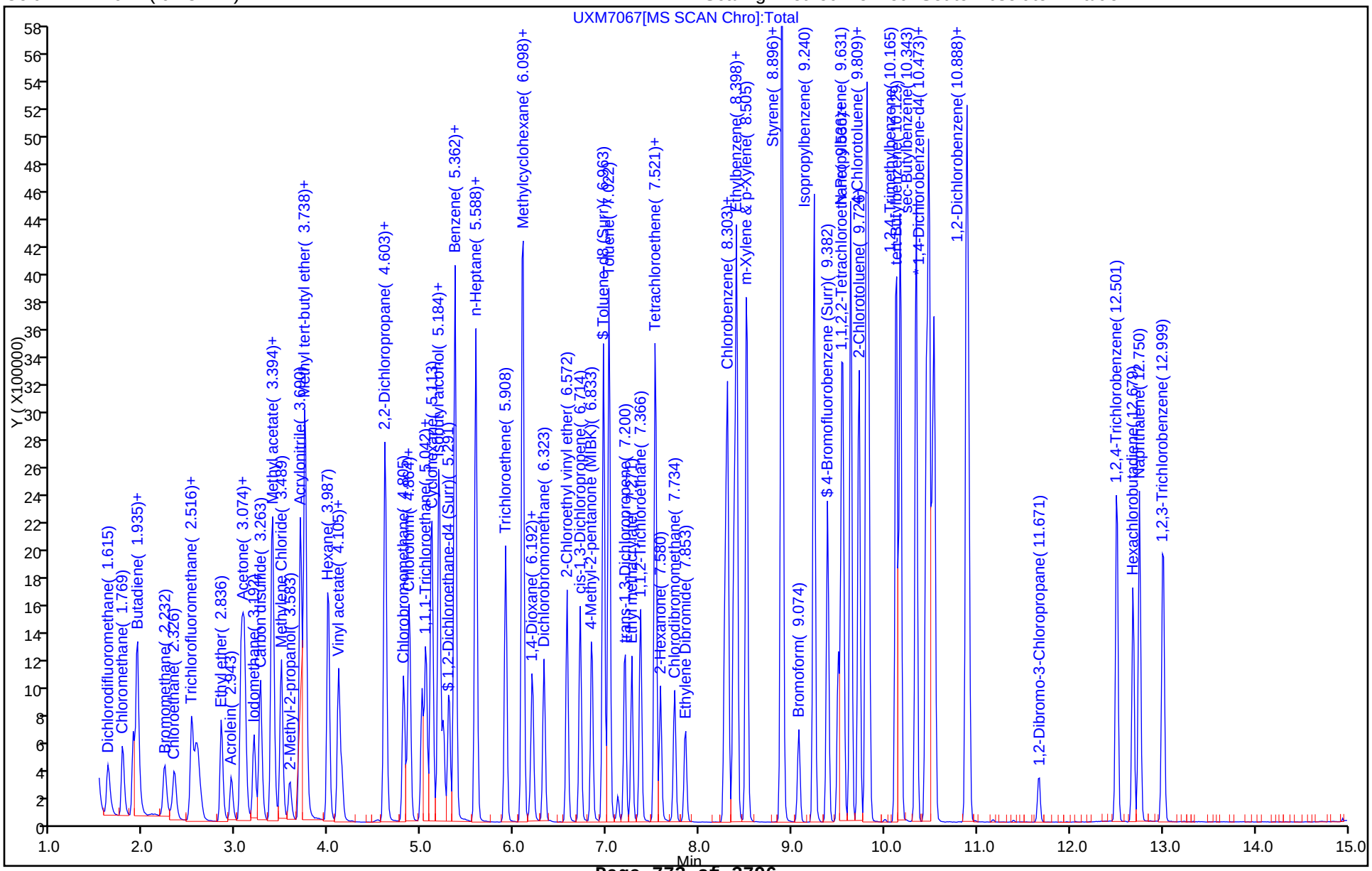
Report Date: 09-Apr-2015 07:46:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7067.D

Injection Date:	08-Apr-2015 13:22:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L5			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7068.D
Lims ID: STD8260 L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 08-Apr-2015 13:44:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-004
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:40 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1548065	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	84	1098353	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	91	639037	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	95	300503	10.0	9.71	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	327407	10.0	9.62	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1256422	10.0	9.58	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	462107	10.0	9.82	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	242698	10.0	8.51	
10 Chloromethane	50	1.769	1.769	0.000	99	388184	10.0	9.89	
11 Vinyl chloride	62	1.888	1.888	0.000	98	399722	10.0	9.27	
12 Butadiene	54	1.923	1.923	0.000	0	336247	10.0	8.66	
13 Bromomethane	94	2.220	2.220	0.000	88	207068	10.0	9.96	
14 Chloroethane	64	2.327	2.327	0.000	99	245799	10.0	9.71	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	562834	10.0	9.94	
16 Trichlorofluoromethane	101	2.564	2.564	0.000	99	334848	10.0	8.91	
17 Ethyl ether	59	2.837	2.837	0.000	89	285000	10.0	10.2	
18 Acrolein	56	2.943	2.943	0.000	98	166842	50.0	46.2	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	317431	10.0	10.1	
20 1,1,2-Trichloro-1,2,2-trif	151	3.086	3.086	0.000	92	254560	10.0	10.5	
21 Acetone	43	3.086	3.086	0.000	100	177442	20.0	19.0	
23 Iodomethane	142	3.192	3.192	0.000	96	514079	10.0	10.4	
24 Carbon disulfide	76	3.263	3.263	0.000	98	956729	10.0	9.93	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	220761	10.0	10.4	
27 Methyl acetate	43	3.394	3.394	0.000	97	1050530	50.0	50.9	
28 Methylene Chloride	84	3.489	3.489	0.000	88	400235	10.0	10.5	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	196624	100.0	99.3	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1119754	100.0	104.6	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	97	378226	10.0	10.1	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	937984	10.0	10.2	
33 Hexane	86	3.999	3.999	0.000	89	93096	10.0	10.3	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	634661	10.0	10.3	
35 Vinyl acetate	43	4.141	4.141	0.000	96	256374	9.60	9.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	79	417073	10.0	10.4	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	54	235342	20.0	20.2	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	86	402860	10.0	10.2	
45 Chlorobromomethane	128	4.805	4.805	0.000	91	197438	10.0	10.5	
46 Tetrahydrofuran	42	4.852	4.852	0.000	88	144627	20.0	19.5	
47 Chloroform	83	4.864	4.864	0.000	92	627339	10.0	10.4	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	477408	10.0	10.4	
49 Cyclohexane	56	5.113	5.113	0.000	87	577795	10.0	10.2	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	461974	10.0	9.96	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	378785	10.0	10.1	
52 Isobutyl alcohol	41	5.232	5.232	0.000	94	168927	250.0	245.6	
54 Benzene	78	5.362	5.362	0.000	94	1600731	10.0	10.3	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	439901	10.0	10.5	
56 n-Heptane	57	5.588	5.588	0.000	85	257320	10.0	9.47	
58 Trichloroethene	130	5.908	5.908	0.000	97	406306	10.0	10.3	
60 Methylcyclohexane	83	6.086	6.086	0.000	90	600527	10.0	10.0	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	91	364937	10.0	10.4	
63 Dibromomethane	93	6.192	6.192	0.000	93	196259	10.0	10.5	
64 1,4-Dioxane	88	6.204	6.204	0.000	91	53729	200.0	208.8	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	453434	10.0	10.5	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	90	386667	20.0	20.9	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	529653	10.0	10.4	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	472020	20.0	20.5	
70 Toluene	91	7.023	7.023	0.000	98	1657841	10.0	10.2	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	91	423296	10.0	10.2	
72 Ethyl methacrylate	69	7.272	7.272	0.000	87	339950	10.0	10.2	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	299335	10.0	10.3	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	91	532175	10.0	10.3	
75 Tetrachloroethene	164	7.532	7.532	0.000	94	315179	10.0	10.2	
76 2-Hexanone	43	7.580	7.580	0.000	94	316954	20.0	19.9	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	299624	10.0	10.0	
80 Ethylene Dibromide	107	7.853	7.853	0.000	97	290915	10.0	10.5	
82 Chlorobenzene	112	8.303	8.303	0.000	96	1069581	10.0	10.3	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	344706	10.0	10.4	
84 Ethylbenzene	106	8.398	8.398	0.000	98	575507	10.0	10.3	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	731190	10.0	10.5	
86 o-Xylene	106	8.884	8.884	0.000	96	714012	10.0	10.6	
87 Styrene	104	8.896	8.896	0.000	92	1127566	10.0	10.4	
88 Bromoform	173	9.074	9.074	0.000	98	188261	10.0	10.3	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	1848075	10.0	10.4	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	93	380619	10.0	10.2	
93 Bromobenzene	156	9.537	9.537	0.000	91	461127	10.0	9.98	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	116273	10.0	9.98	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	76	90862	10.0	9.92	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	507345	10.0	10.0	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	437074	10.0	10.0	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	1533706	10.0	10.0	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	459872	10.0	9.90	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	1332376	10.0	9.98	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	1635840	10.0	10.2	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	1922604	10.0	9.98	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	905984	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.485	10.485	0.000	97	1677489	10.0	9.98	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	94	927811	10.0	10.0	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	1429823	10.0	10.2	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	864865	10.0	10.1	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	91	66116	10.0	10.5	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	547207	10.0	10.3	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	224846	10.0	10.2	
117 Naphthalene	128	12.750	12.750	0.000	96	1158120	10.0	10.1	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	485845	10.0	10.2	
S 131 1,2-Dichloroethene, Total	96				0		20.0	20.5	
S 132 1,3-Dichloropropene, Total	75				0		20.0	20.7	
S 133 Xylenes, Total	106				0		20.0	21.1	
S 134 Trihalomethanes, Total	1				0		40.0	41.3	

Reagents:

VMRPRIMW_00120	Amount Added:	8.00	Units: uL
VMRGAS_00097	Amount Added:	8.00	Units: uL
VMAROLISTDW_00095	Amount Added:	8.00	Units: uL
vm50ss_stk_00065	Amount Added:	8.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

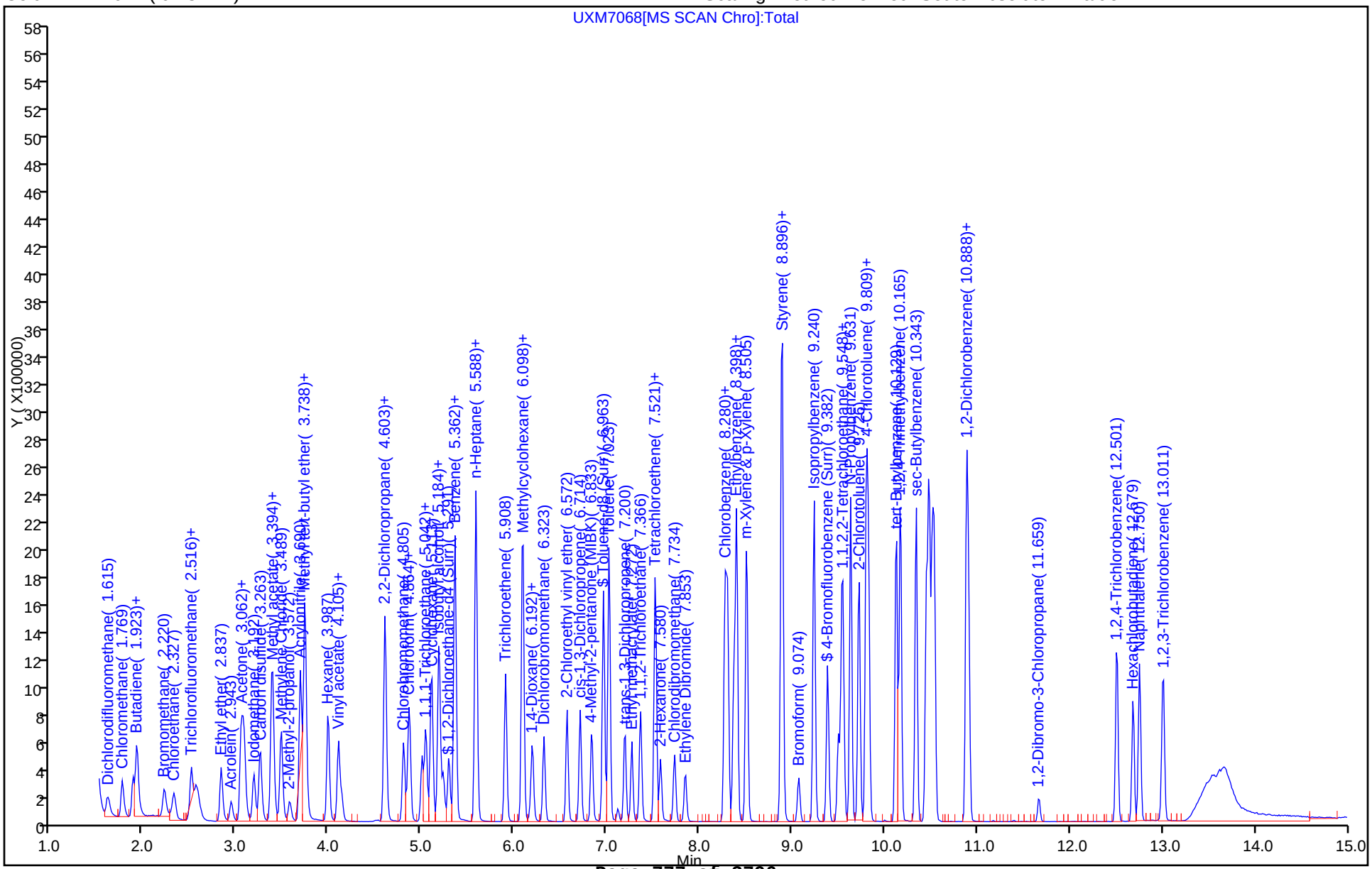
Report Date: 09-Apr-2015 07:46:41 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7068.D

Injection Date:	08-Apr-2015 13:44:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L4			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7069.D
Lims ID: STD8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Apr-2015 14:07:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-005
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:41 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1615711	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	85	1138838	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	92	638139	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	94	158433	5.00	4.91	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	172978	5.00	4.87	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	668083	5.00	4.91	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	244718	5.00	5.01	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	140857	5.00	4.73	
10 Chloromethane	50	1.769	1.769	0.000	99	205715	5.00	5.02	
11 Vinyl chloride	62	1.888	1.888	0.000	98	223994	5.00	4.98	
12 Butadiene	54	1.935	1.923	0.012	0	200871	5.00	4.96	
13 Bromomethane	94	2.232	2.220	0.012	90	103009	5.00	4.75	
14 Chloroethane	64	2.338	2.327	0.011	99	128633	5.00	4.87	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	282460	5.00	4.78	
16 Trichlorofluoromethane	101	2.564	2.564	0.000	97	185528	5.00	4.73	
17 Ethyl ether	59	2.836	2.837	0.000	89	140678	5.00	4.83	
18 Acrolein	56	2.943	2.943	0.000	96	96810	25.0	25.7	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	161038	5.00	4.93	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	91	120932	5.00	4.76	
21 Acetone	43	3.085	3.086	-0.001	71	92528	10.0	9.48	
23 Iodomethane	142	3.192	3.192	0.000	96	251156	5.00	4.88	
24 Carbon disulfide	76	3.263	3.263	0.000	98	498244	5.00	4.96	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	108379	5.00	4.87	
27 Methyl acetate	43	3.394	3.394	0.000	97	522740	25.0	24.3	
28 Methylene Chloride	84	3.489	3.489	0.000	89	205234	5.00	4.90	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	99599	50.0	48.2	
30 Acrylonitrile	53	3.690	3.690	0.000	98	527388	50.0	47.2	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	67	192169	5.00	4.90	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	473972	5.00	4.96	
33 Hexane	86	3.987	3.999	-0.012	89	46020	5.00	4.87	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	312956	5.00	4.88	
35 Vinyl acetate	43	4.141	4.141	0.000	97	124883	4.80	4.62	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	205785	5.00	4.92	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	54	117472	10.0	9.67	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	85	209114	5.00	5.09	
45 Chlorobromomethane	128	4.805	4.805	0.000	93	95005	5.00	4.84	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	73033	10.0	9.44	
47 Chloroform	83	4.864	4.864	0.000	93	319367	5.00	5.09	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	240082	5.00	5.02	
49 Cyclohexane	56	5.113	5.113	0.000	86	292014	5.00	4.94	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	239308	5.00	4.94	
51 Carbon tetrachloride	117	5.196	5.196	0.000	96	192165	5.00	4.90	
52 Isobutyl alcohol	41	5.232	5.232	0.000	92	86934	125.0	121.1	
54 Benzene	78	5.362	5.362	0.000	94	799946	5.00	4.94	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	54	218533	5.00	5.00	
56 n-Heptane	57	5.588	5.588	0.000	88	158070	5.00	4.91	
58 Trichloroethene	130	5.908	5.908	0.000	96	206338	5.00	5.02	
60 Methylcyclohexane	83	6.086	6.086	0.000	90	302407	5.00	4.83	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	94	186424	5.00	5.09	
63 Dibromomethane	93	6.192	6.192	0.000	93	95833	5.00	4.93	
64 1,4-Dioxane	88	6.204	6.204	0.000	40	27293	100.0	101.6	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	220994	5.00	4.91	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	188701	10.0	9.78	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	256701	5.00	4.84	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	231016	10.0	9.62	
70 Toluene	91	7.023	7.023	-0.001	98	836157	5.00	4.96	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	90	210531	5.00	4.92	
72 Ethyl methacrylate	69	7.272	7.272	0.000	88	169293	5.00	4.89	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	148725	5.00	4.92	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	88	266053	5.00	4.96	
75 Tetrachloroethene	164	7.532	7.532	0.000	91	156477	5.00	4.90	
76 2-Hexanone	43	7.580	7.580	0.000	96	164796	10.0	10.0	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	149029	5.00	4.81	
80 Ethylene Dibromide	107	7.853	7.853	0.000	98	139164	5.00	4.85	
82 Chlorobenzene	112	8.303	8.303	0.000	95	537400	5.00	4.97	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	95	169683	5.00	4.93	
84 Ethylbenzene	106	8.398	8.398	0.000	98	291113	5.00	5.04	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	360143	5.00	4.98	
86 o-Xylene	106	8.884	8.884	0.000	94	348841	5.00	4.99	
87 Styrene	104	8.896	8.896	0.000	93	545252	5.00	4.86	
88 Bromoform	173	9.074	9.074	0.000	98	90533	5.00	4.80	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	907101	5.00	4.90	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	95	179157	5.00	4.78	
93 Bromobenzene	156	9.537	9.537	-0.001	93	223701	5.00	4.85	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	56075	5.00	4.82	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	74	44369	5.00	4.85	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	254462	5.00	5.04	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	215043	5.00	4.93	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	761323	5.00	4.98	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	238520	5.00	5.14	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	667699	5.00	5.01	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	779068	5.00	4.87	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	956212	5.00	4.97	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	448685	5.00	4.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.473	10.485	-0.012	97	817341	5.00	4.87	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	96	456122	5.00	4.93	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	685404	5.00	4.89	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	99	415221	5.00	4.86	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	88	29908	5.00	4.77	
115 1,2,4-Trichlorobenzene	180	12.501	12.513	-0.012	94	257150	5.00	4.85	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	106764	5.00	4.85	
117 Naphthalene	128	12.750	12.750	0.000	96	559666	5.00	4.88	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	237020	5.00	5.00	
S 131 1,2-Dichloroethene, Total	96				0		10.0	9.82	
S 132 1,3-Dichloropropene, Total	75				0		10.0	9.76	
S 133 Xylenes, Total	106				0		10.0	9.96	
S 134 Trihalomethanes, Total	1				0		20.0	19.6	

Reagents:

VMRPRIMW_00120	Amount Added:	4.00	Units: uL
VMRGAS_00097	Amount Added:	4.00	Units: uL
VMAROLISTDW_00095	Amount Added:	4.00	Units: uL
vm50ss_stk_00065	Amount Added:	4.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

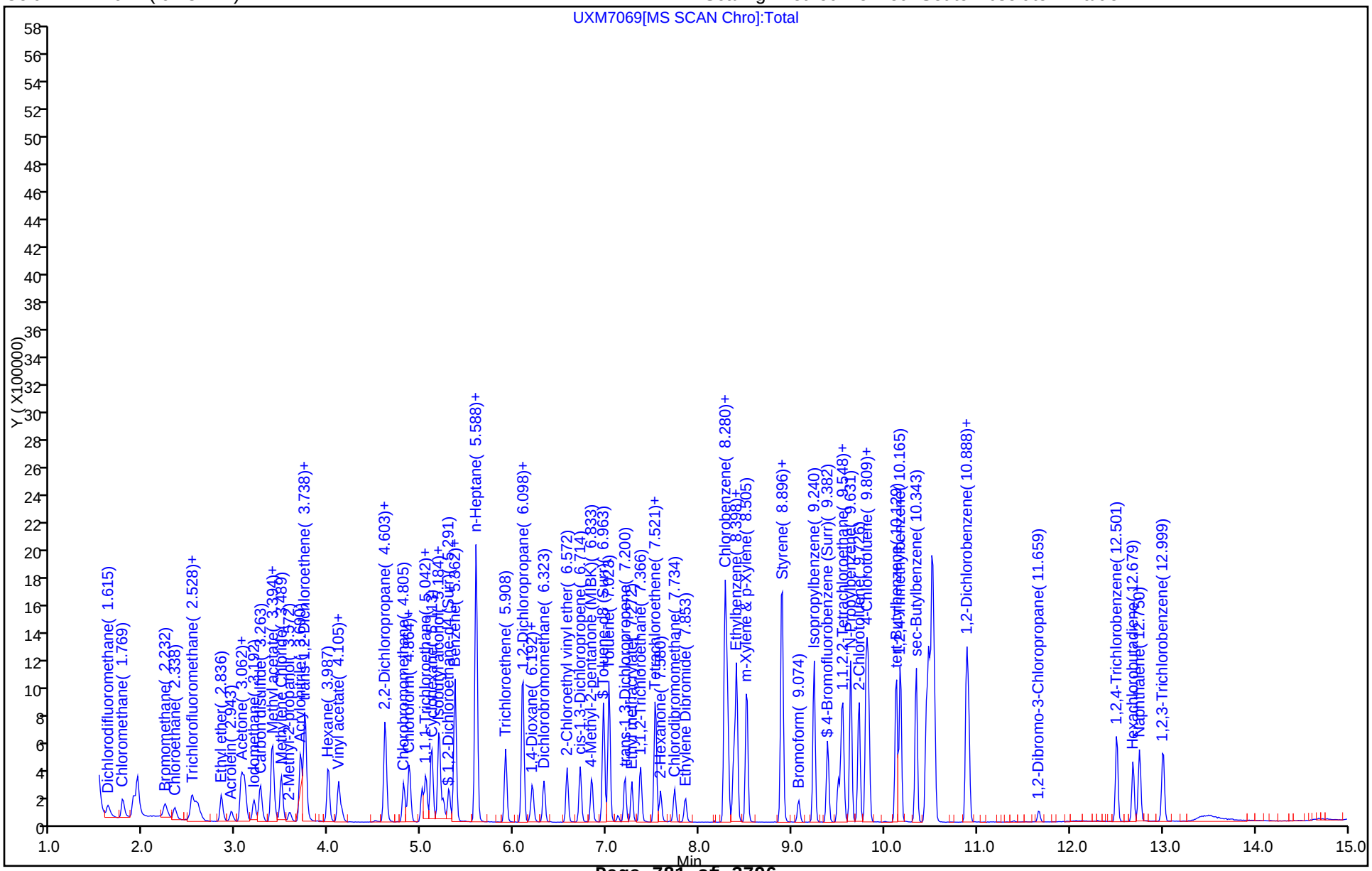
Report Date: 09-Apr-2015 07:46:42 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7069.D

Injection Date:	08-Apr-2015 14:07:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7070.D
Lims ID: STD8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Apr-2015 14:30:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-006
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:43 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: quayler Date: 09-Apr-2015 07:37:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1563330	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	84	1126692	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	609997	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	62674	2.00	2.01	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	68480	2.00	1.99	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	267445	2.00	1.99	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	95592	2.00	1.98	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	55676	2.00	1.93	
10 Chloromethane	50	1.769	1.769	0.000	99	82030	2.00	2.07	
11 Vinyl chloride	62	1.888	1.888	0.000	98	87630	2.00	2.01	
12 Butadiene	54	1.923	1.923	0.000	0	80915	2.00	2.06	
13 Bromomethane	94	2.232	2.220	0.012	89	43161	2.00	2.06	
14 Chloroethane	64	2.338	2.327	0.011	98	53063	2.00	2.08	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	118360	2.00	2.07	
16 Trichlorofluoromethane	101	2.564	2.564	0.000	98	78305	2.00	2.06	
17 Ethyl ether	59	2.836	2.837	0.000	92	57764	2.00	2.05	
18 Acrolein	56	2.943	2.943	0.000	96	36457	10.0	10.0	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	98	59936	2.00	1.90	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	89	44591	2.00	1.81	
21 Acetone	43	3.097	3.086	0.011	93	40303	4.00	4.27	
23 Iodomethane	142	3.192	3.192	0.000	96	99607	2.00	2.00	
24 Carbon disulfide	76	3.263	3.263	0.000	98	193845	2.00	1.99	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	43357	2.00	2.01	
27 Methyl acetate	43	3.394	3.394	0.000	97	206540	10.0	9.92	
28 Methylene Chloride	84	3.489	3.489	0.000	90	91345	2.00	1.99	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	41529	20.0	20.8	
30 Acrylonitrile	53	3.690	3.690	0.000	99	206234	20.0	19.1	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	70	79405	2.00	2.09	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	95	180473	2.00	1.95	
33 Hexane	86	3.987	3.999	-0.012	89	15768	2.00	1.72	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	119780	2.00	1.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	48645	1.92	1.86	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	82	82689	2.00	2.04	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	53	46903	4.00	3.99	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	88	77591	2.00	1.95	
45 Chlorobromomethane	128	4.805	4.805	0.000	89	36532	2.00	1.92	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	31410	4.00	4.20	
47 Chloroform	83	4.864	4.864	0.000	92	120340	2.00	1.98	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	89274	2.00	1.93	
49 Cyclohexane	56	5.101	5.113	-0.012	86	102189	2.00	1.79	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	94286	2.00	2.01	
51 Carbon tetrachloride	117	5.196	5.196	0.000	95	75098	2.00	1.98	
52 Isobutyl alcohol	41	5.244	5.232	0.012	98	35877	50.0	51.7	
54 Benzene	78	5.362	5.362	0.000	95	307377	2.00	1.96	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	85876	2.00	2.03	
56 n-Heptane	57	5.588	5.588	0.000	39	80485	2.00	1.81	
58 Trichloroethene	130	5.908	5.908	0.000	96	78784	2.00	1.98	
60 Methylcyclohexane	83	6.086	6.086	0.000	87	112582	2.00	1.86	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	78	69884	2.00	1.97	
63 Dibromomethane	93	6.192	6.192	0.000	89	37594	2.00	2.00	
64 1,4-Dioxane	88	6.204	6.204	0.000	37	10888	40.0	41.9	
65 Dichlorobromomethane	83	6.323	6.323	0.000	100	85112	2.00	1.96	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	71924	4.00	3.85	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	99996	2.00	1.95	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	92946	4.00	4.00	
70 Toluene	91	7.022	7.023	-0.001	98	327977	2.00	1.97	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	91	83980	2.00	1.98	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	88	65551	2.00	1.91	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	59363	2.00	1.98	
74 1,3-Dichloropropane	76	7.521	7.521	-0.001	88	102163	2.00	1.93	
75 Tetrachloroethene	164	7.532	7.532	0.000	90	60595	2.00	1.92	
76 2-Hexanone	43	7.580	7.580	0.000	94	64637	4.00	3.96	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	58315	2.00	1.90	
80 Ethylene Dibromide	107	7.853	7.853	0.000	99	56955	2.00	2.00	
82 Chlorobenzene	112	8.303	8.303	0.000	96	210696	2.00	1.97	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	92	67561	2.00	1.98	
84 Ethylbenzene	106	8.398	8.398	0.000	97	113464	2.00	1.98	
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	98	145431	2.00	2.03	
86 o-Xylene	106	8.884	8.884	0.000	96	129904	2.00	1.88	
87 Styrene	104	8.896	8.896	0.000	92	215294	2.00	1.94	
88 Bromoform	173	9.074	9.074	0.000	97	33744	2.00	1.81	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	346325	2.00	1.89	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	95	71837	2.00	2.01	
93 Bromobenzene	156	9.536	9.537	-0.001	93	89860	2.00	2.04	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	24014	2.00	2.16	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	69	15946	2.00	1.82	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	93650	2.00	1.94	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	81124	2.00	1.95	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	289090	2.00	1.98	
100 4-Chlorotoluene	126	9.821	9.821	0.000	97	87928	2.00	1.98	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	243411	2.00	1.91	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	302427	2.00	1.98	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	349623	2.00	1.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	96	176506	2.00	2.05	
107 4-Isopropyltoluene	119	10.485	10.485	0.000	97	306339	2.00	1.91	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	94	171223	2.00	1.94	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	263622	2.00	1.97	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	98	164804	2.00	2.02	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	81	11289	2.00	1.88	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	102074	2.00	2.01	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	41409	2.00	1.97	
117 Naphthalene	128	12.750	12.750	0.000	96	214063	2.00	1.95	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	86828	2.00	1.91	
S 131 1,2-Dichloroethene, Total	96				0		4.00	4.13	
S 132 1,3-Dichloropropene, Total	75				0		4.00	3.93	
S 133 Xylenes, Total	106				0		4.00	3.91	
S 134 Trihalomethanes, Total	1				0		8.00	7.65	

Reagents:

VMRPRIMW_00120	Amount Added:	1.60	Units: uL
VMRGAS_00097	Amount Added:	1.60	Units: uL
VMAROLISTDW_00095	Amount Added:	1.60	Units: uL
vm50ss_stk_00065	Amount Added:	1.60	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

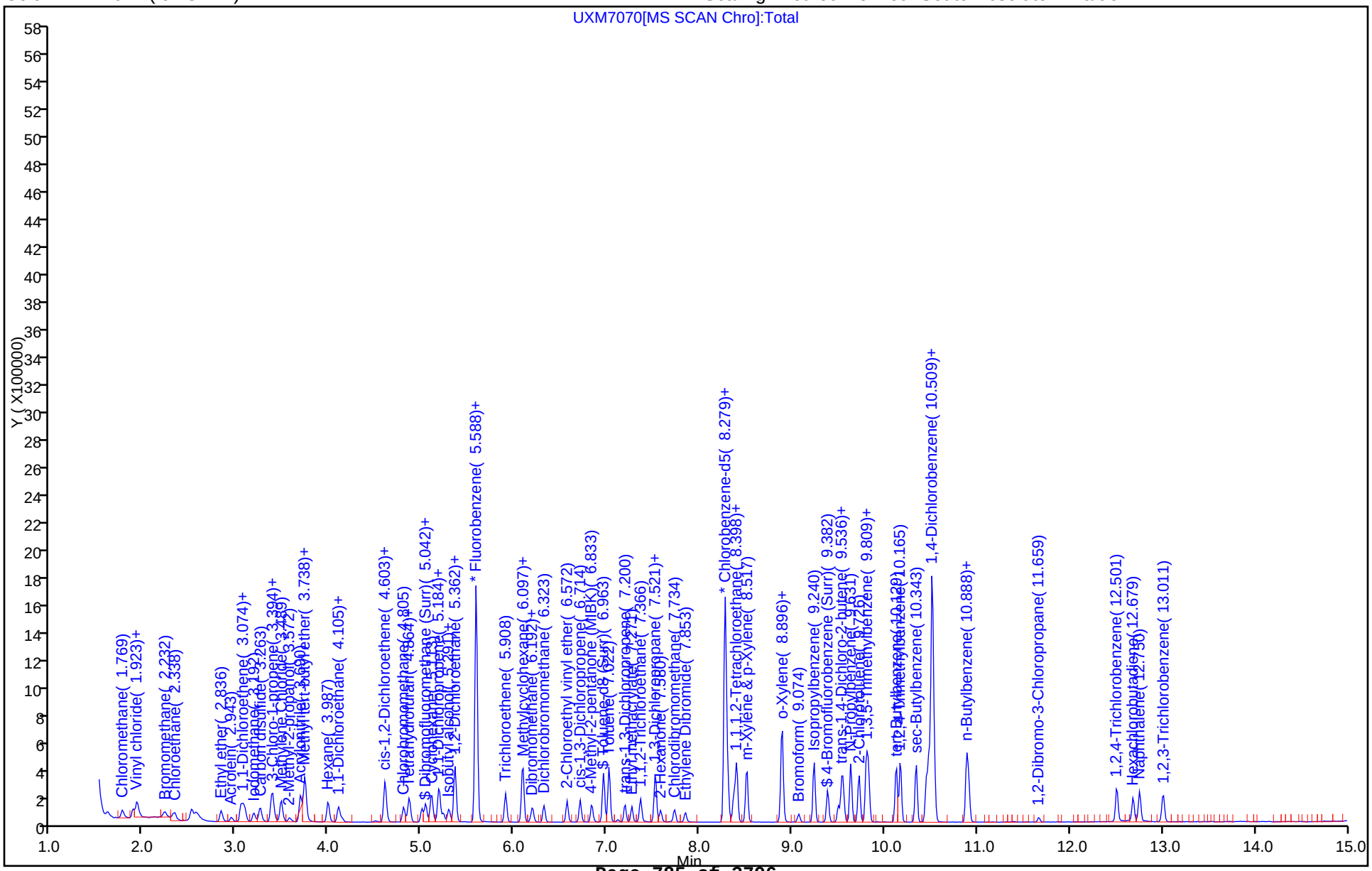
Report Date: 09-Apr-2015 07:46:44 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7070.D

Injection Date:	08-Apr-2015 14:30:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7071.D
Lims ID: STD8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Apr-2015 14:53:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-007
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:44 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: quayler Date: 09-Apr-2015 07:37:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1577216	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	84	1114650	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	595011	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	32663	1.00	1.04	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	37257	1.00	1.07	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	133342	1.00	1.00	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	48826	1.00	1.02	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	28917	1.00	0.99	
10 Chloromethane	50	1.769	1.769	0.000	98	39695	1.00	0.99	
11 Vinyl chloride	62	1.888	1.888	0.000	96	44743	1.00	1.02	
12 Butadiene	54	1.935	1.923	0.012	0	39558	1.00	1.00	
13 Bromomethane	94	2.243	2.220	0.023	90	23786	1.00	1.12	
14 Chloroethane	64	2.326	2.327	-0.001	82	26576	1.00	1.03	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	59976	1.00	1.04	
16 Trichlorofluoromethane	101	2.564	2.564	0.000	94	37426	1.00	0.9772	
17 Ethyl ether	59	2.836	2.837	0.000	87	28439	1.00	1.00	
18 Acrolein	56	2.943	2.943	0.000	95	16994	5.00	4.62	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	31625	1.00	0.99	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	90	24378	1.00	0.9833	
21 Acetone	43	3.097	3.086	0.011	76	22402	2.00	2.35	
23 Iodomethane	142	3.192	3.192	0.000	96	50914	1.00	1.01	
24 Carbon disulfide	76	3.263	3.263	0.000	99	96908	1.00	0.9876	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	21041	1.00	0.9685	
27 Methyl acetate	43	3.394	3.394	0.000	96	102515	5.00	4.88	
28 Methylene Chloride	84	3.488	3.489	-0.001	93	55764	1.00	1.01	
29 2-Methyl-2-propanol	59	3.583	3.572	0.011	98	20864	10.0	10.3	
30 Acrylonitrile	53	3.702	3.690	0.012	100	106416	10.0	9.76	
32 trans-1,2-Dichloroethene	96	3.749	3.738	0.011	77	39000	1.00	1.02	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	93	90640	1.00	0.9712	
33 Hexane	86	3.998	3.999	-0.001	88	8682	1.00	0.9403	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	63377	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	24926	0.9600	0.9437	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	81	39548	1.00	0.9680	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	52	23553	2.00	1.99	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	91	41868	1.00	1.04	
45 Chlorobromomethane	128	4.805	4.805	0.000	92	19945	1.00	1.04	
46 Tetrahydrofuran	42	4.852	4.852	0.000	82	16100	2.00	2.13	
47 Chloroform	83	4.864	4.864	0.000	94	59879	1.00	0.9768	
48 1,1,1-Trichloroethane	97	5.054	5.042	0.012	98	45727	1.00	0.9803	
49 Cyclohexane	56	5.113	5.113	0.000	85	55140	1.00	0.9561	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	97	46457	1.00	0.9830	
51 Carbon tetrachloride	117	5.196	5.196	0.000	94	35954	1.00	0.9390	
52 Isobutyl alcohol	41	5.244	5.232	0.012	91	17879	25.0	25.5	
54 Benzene	78	5.362	5.362	0.000	94	157136	1.00	0.99	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	54	39243	1.00	0.9202	
56 n-Heptane	57	5.587	5.588	-0.001	38	64799	1.00	1.12	
58 Trichloroethene	130	5.908	5.908	0.000	94	39145	1.00	0.9748	
60 Methylcyclohexane	83	6.097	6.086	0.011	87	59299	1.00	0.9697	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	78	33374	1.00	0.9335	
63 Dibromomethane	93	6.192	6.192	0.000	90	17545	1.00	0.9247	
64 1,4-Dioxane	88	6.204	6.204	0.000	37	4528	20.0	17.3	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	41017	1.00	0.9339	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	33706	2.00	1.79	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	96	47246	1.00	0.9134	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	94	44881	2.00	1.92	
70 Toluene	91	7.022	7.023	-0.001	99	158809	1.00	0.9622	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	92	38332	1.00	0.9146	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	90	32579	1.00	0.9617	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	87	30179	1.00	1.02	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	87	51904	1.00	0.9890	
75 Tetrachloroethene	164	7.520	7.532	-0.012	89	31809	1.00	1.02	
76 2-Hexanone	43	7.580	7.580	0.000	94	32101	2.00	1.99	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	29103	1.00	0.9600	
80 Ethylene Dibromide	107	7.852	7.853	-0.001	99	26687	1.00	0.9496	
82 Chlorobenzene	112	8.303	8.303	0.000	96	107038	1.00	1.01	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	90	31888	1.00	0.9469	
84 Ethylbenzene	106	8.398	8.398	0.000	98	52078	1.00	0.9204	
85 m-Xylene & p-Xylene	106	8.516	8.505	0.011	96	64465	1.00	0.9100	
86 o-Xylene	106	8.884	8.884	0.000	95	65124	1.00	0.9514	
87 Styrene	104	8.896	8.896	0.000	93	103130	1.00	0.9400	
88 Bromoform	173	9.074	9.074	0.000	96	16692	1.00	0.9037	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	172044	1.00	0.9500	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	92	36065	1.00	1.03	
93 Bromobenzene	156	9.536	9.537	-0.001	93	44780	1.00	1.04	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	10712	1.00	0.9873	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	73	9003	1.00	1.06	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	46555	1.00	0.9884	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	43871	1.00	1.08	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	137702	1.00	0.9652	
100 4-Chlorotoluene	126	9.821	9.821	0.000	96	44743	1.00	1.03	
102 tert-Butylbenzene	119	10.129	10.129	0.000	89	124757	1.00	1.00	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	145383	1.00	0.9742	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	179857	1.00	1.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	95	84359	1.00	1.00	
107 4-Isopropyltoluene	119	10.473	10.485	-0.012	97	156428	1.00	1.00	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	95	92128	1.00	1.07	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	122761	1.00	0.9398	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	98	82283	1.00	1.03	
113 1,2-Dibromo-3-Chloropropan	157	11.659	11.671	-0.012	79	5233	1.00	0.8947	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	91	47895	1.00	0.9683	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	92	22350	1.00	1.09	
117 Naphthalene	128	12.750	12.750	0.000	97	102789	1.00	0.9610	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	46243	1.00	1.05	
S 131 1,2-Dichloroethene, Total	96				0		2.00	1.99	
S 132 1,3-Dichloropropene, Total	75				0		2.00	1.83	
S 133 Xylenes, Total	106				0		2.00	1.86	
S 134 Trihalomethanes, Total	1				0		4.00	3.77	

Reagents:

VMRPRIMW_00120	Amount Added:	0.80	Units: uL
VMRGAS_00097	Amount Added:	0.80	Units: uL
VMAROLISTDW_00095	Amount Added:	0.80	Units: uL
vm50ss_stk_00065	Amount Added:	0.80	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

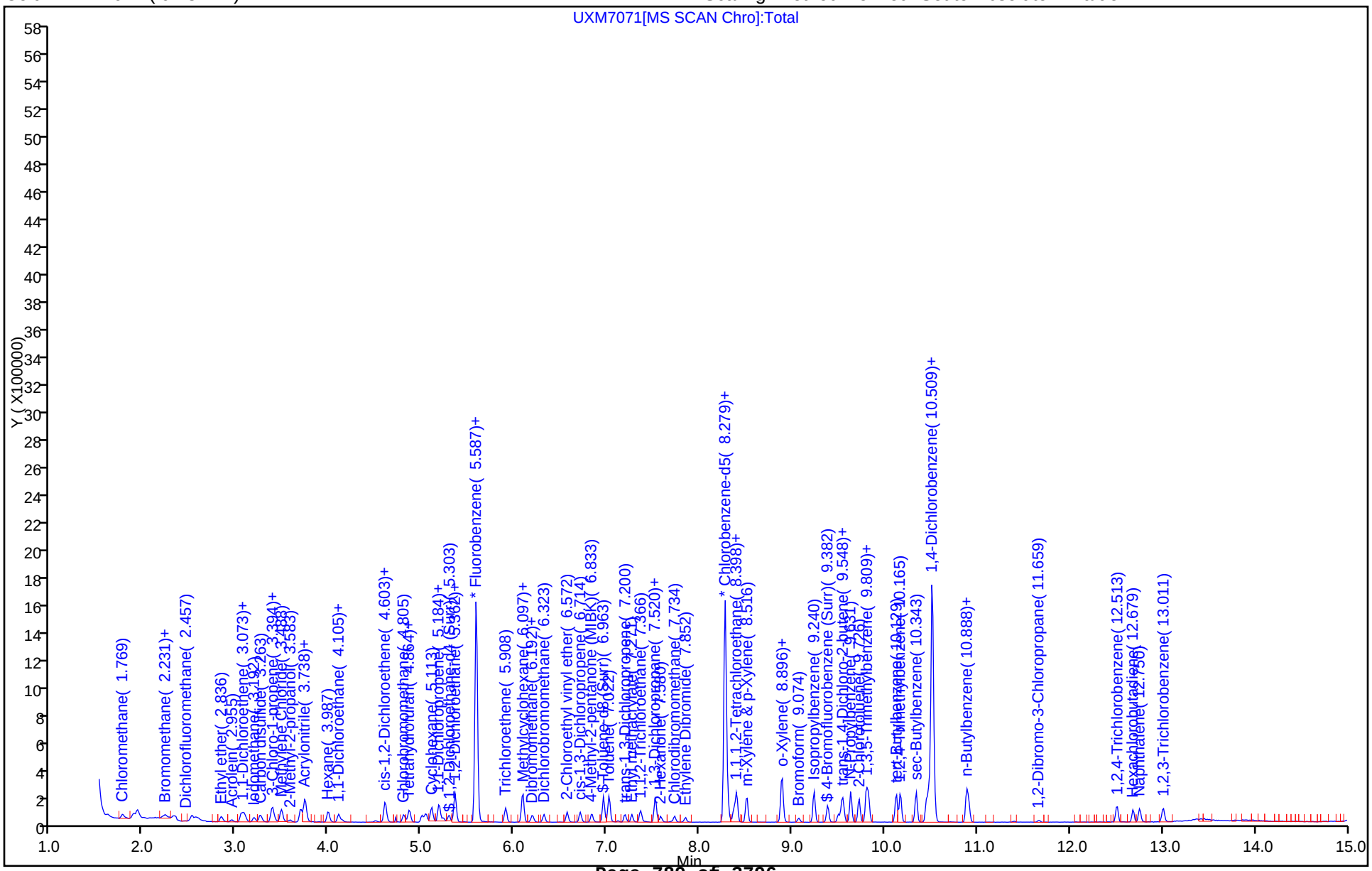
Report Date: 09-Apr-2015 07:46:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7071.D

Injection Date:	08-Apr-2015 14:53:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L1			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-170010/16 Calibration Date: 02/28/2015 18:00

Instrument ID: A3UX12 Calib Start Date: 02/28/2015 12:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/28/2015 14:44

Lab File ID: U1243096.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3698	0.1000	0.0158	0.0200	-20.9*	20.0
Chloromethane	Ave	0.4709	0.3820	0.1000	0.0162	0.0200	-18.9	20.0
Vinyl chloride	Ave	0.4947	0.4354	0.1000	0.0176	0.0200	-12.0	20.0
Bromomethane	Ave	0.3551	0.3037	0.0500	0.0171	0.0200	-14.5	20.0
Chloroethane	Ave	0.3413	0.2997	0.0500	0.0176	0.0200	-12.2	20.0
Dichlorofluoromethane	Ave	0.6747	0.6083		0.0180	0.0200	-9.8	20.0
Trichlorofluoromethane	Lin1		0.4693	0.1000	0.0164	0.0200	-17.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2956	0.3037	0.0500	0.0205	0.0200	2.7	20.0
1,1-Dichloroethene	Ave	0.5800	0.5635	0.1000	0.0194	0.0200	-2.8	20.0
Acetone	Lin1		0.0986	0.0500	0.0367	0.0400	-8.3	20.0
Iodomethane	Ave	0.6495	0.7302		0.0225	0.0200	12.4	20.0
Carbon disulfide	Ave	0.7224	0.7177	0.1000	0.0199	0.0200	-0.6	20.0
Methylene Chloride	Ave	0.5448	0.4933	0.1000	0.0181	0.0200	-9.5	20.0
2-Methyl-2-propanol	Ave	0.0375	0.0357		0.190	0.200	-4.8	20.0
Methyl tert-butyl ether	Ave	1.001	0.9892	0.1000	0.0198	0.0200	-1.2	20.0
trans-1,2-Dichloroethene	Ave	0.4195	0.4376	0.1000	0.0209	0.0200	4.3	20.0
1,1-Dichloroethane	Ave	0.5205	0.5454	0.1000	0.0210	0.0200	4.8	20.0
Vinyl acetate	Ave	0.2917	0.3161		0.0217	0.0200	8.4	20.0
2,2-Dichloropropane	Ave	0.2591	0.2398		0.0185	0.0200	-7.4	20.0
2-Butanone (MEK)	Lin1		0.1267	0.0500	0.0368	0.0400	-8.1	20.0
cis-1,2-Dichloroethene	Ave	0.4453	0.4261	0.1000	0.0191	0.0200	-4.3	20.0
Chlorobromomethane	Ave	0.2353	0.2302		0.0196	0.0200	-2.2	20.0
Chloroform	Ave	0.5380	0.5311	0.2000	0.0197	0.0200	-1.3	20.0
1,1,1-Trichloroethane	Ave	0.3968	0.3803	0.1000	0.0192	0.0200	-4.2	20.0
1,1-Dichloropropene	Ave	0.3555	0.3802		0.0214	0.0200	6.9	20.0
Carbon tetrachloride	Ave	0.3631	0.3669	0.1000	0.0202	0.0200	1.1	20.0
Benzene	Ave	1.269	1.262	0.5000	0.0199	0.0200	-0.6	20.0
1,2-Dichloroethane	Ave	0.4395	0.4119	0.1000	0.0187	0.0200	-6.3	20.0
Trichloroethene	Ave	0.3428	0.3574	0.2000	0.0209	0.0200	4.3	20.0
1,2-Dichloropropane	Ave	0.2955	0.2948	0.1000	0.0200	0.0200	-0.2	20.0
Dibromomethane	Ave	0.2667	0.2641		0.0198	0.0200	-1.0	20.0
Dichlorobromomethane	Ave	0.4236	0.3889	0.1000	0.0184	0.0200	-8.2	20.0
cis-1,3-Dichloropropene	Ave	0.5176	0.5142	0.1500	0.0199	0.0200	-0.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2961	0.2692	0.0500	0.0364	0.0400	-9.1	20.0
Toluene	Ave	1.702	1.668	0.4000	0.0196	0.0200	-2.0	20.0
trans-1,3-Dichloropropene	Ave	0.5734	0.5968	0.1000	0.0208	0.0200	4.1	20.0
1,1,2-Trichloroethane	Ave	0.3735	0.3708	0.1000	0.0199	0.0200	-0.7	20.0
Tetrachloroethene	Ave	0.3747	0.3773	0.2000	0.0201	0.0200	0.7	20.0
1,3-Dichloropropane	Ave	0.6763	0.6538		0.0193	0.0200	-3.3	20.0
2-Hexanone	Ave	0.2692	0.2307	0.0500	0.0343	0.0400	-14.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-170010/16 Calibration Date: 02/28/2015 18:00

Instrument ID: A3UX12 Calib Start Date: 02/28/2015 12:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/28/2015 14:44

Lab File ID: U1243096.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3957	0.3823		0.0193	0.0200	-3.4	20.0
Chlorobenzene	Ave	1.192	1.179	0.3000	0.0198	0.0200	-1.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4128	0.4035		0.0196	0.0200	-2.2	20.0
Ethylbenzene	Ave	0.5548	0.5540		0.0200	0.0200	-0.2	20.0
m-Xylene & p-Xylene	Ave	0.7127	0.6662		0.0187	0.0200	-6.5	20.0
o-Xylene	Ave	0.7193	0.7054		0.0196	0.0200	-1.9	20.0
Styrene	Ave	1.200	1.204	0.3000	0.0201	0.0200	0.3	20.0
Bromoform	Ave	0.2907	0.2622	0.1000	0.0180	0.0200	-9.8	20.0
Isopropylbenzene	Ave	1.454	1.423	0.1000	0.0196	0.0200	-2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.000	0.9633	0.3000	0.0193	0.0200	-3.7	20.0
Bromobenzene	Ave	1.059	1.078		0.0204	0.0200	1.9	20.0
1,2,3-Trichloropropane	Ave	0.3691	0.3661		0.0198	0.0200	-0.8	20.0
N-Propylbenzene	Ave	0.7924	0.7710		0.0195	0.0200	-2.7	20.0
2-Chlorotoluene	Ave	0.7397	0.7496		0.0203	0.0200	1.3	20.0
1,3,5-Trimethylbenzene	Ave	2.301	2.300		0.0200	0.0200	-0.0	20.0
4-Chlorotoluene	Ave	0.8399	0.8672		0.0206	0.0200	3.2	20.0
tert-Butylbenzene	Ave	2.020	1.950		0.0193	0.0200	-3.5	20.0
1,2,4-Trimethylbenzene	Ave	2.576	2.496		0.0194	0.0200	-3.1	20.0
sec-Butylbenzene	Ave	2.529	2.483		0.0196	0.0200	-1.8	20.0
1,3-Dichlorobenzene	Ave	1.702	1.685	0.6000	0.0198	0.0200	-0.9	20.0
4-Isopropyltoluene	Ave	2.375	2.311		0.0195	0.0200	-2.7	20.0
1,4-Dichlorobenzene	Ave	1.764	1.803	0.5000	0.0204	0.0200	2.2	20.0
n-Butylbenzene	Ave	1.819	1.734		0.0191	0.0200	-4.6	20.0
1,2-Dichlorobenzene	Ave	1.801	1.827	0.4000	0.0203	0.0200	1.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2722	0.2513	0.0500	0.0185	0.0200	-7.7	20.0
1,2,4-Trichlorobenzene	Ave	1.057	1.009	0.2000	0.0191	0.0200	-4.5	20.0
Hexachlorobutadiene	Ave	0.4393	0.4153		0.0189	0.0200	-5.5	20.0
Naphthalene	Ave	2.872	2.745		0.0191	0.0200	-4.4	20.0
1,2,3-Trichlorobenzene	Ave	0.9065	0.9033		0.0199	0.0200	-0.4	20.0
Dibromofluoromethane (Surr)	Ave	0.3019	0.2627		0.0144	0.0165	-13.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3550	0.2857		0.0133	0.0165	-19.5	20.0
Toluene-d8 (Surr)	Ave	1.500	1.293		0.0142	0.0165	-13.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5683	0.5114		0.0149	0.0165	-10.0	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243096.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 28-Feb-2015 18:00:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-016
Operator ID: 001904 Instrument ID: A3UX12
Sublist:

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:08:12 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	888790	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	84	715189	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	92	369021	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	95	192858	16.5	14.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.121	-0.012	88	209719	16.5	13.3	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	763833	16.5	14.2	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	95	302096	16.5	14.9	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	98	328699	20.0	15.8	
10 Chloromethane	50	1.784	1.784	0.000	99	339526	20.0	16.2	
11 Vinyl chloride	62	1.902	1.902	0.000	83	386968	20.0	17.6	
12 Butadiene	54	1.914	1.914	0.000	97	285942	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	91	269877	20.0	17.1	
14 Chloroethane	64	2.281	2.281	0.000	99	266347	20.0	17.6	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	97	540683	20.0	18.0	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	86	417070	20.0	16.4	
17 Ethyl ether	59	2.718	2.718	0.000	86	222518	20.0	20.3	
18 Acrolein	56	2.837	2.837	0.000	99	101713	100.0	152.9	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	66	269886	20.0	20.5	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	97	500843	20.0	19.4	
21 Acetone	43	2.967	2.967	0.000	100	175199	40.0	36.7	
23 Iodomethane	142	3.097	3.097	0.000	98	648956	20.0	22.5	
24 Carbon disulfide	76	3.168	3.168	0.000	99	637881	20.0	19.9	
27 3-Chloro-1-propene	41	3.227	3.227	0.000	85	213748	20.0	19.9	
26 Methyl acetate	43	3.239	3.239	0.000	97	966866	100.0	90.5	
28 Methylene Chloride	49	3.357	3.369	-0.012	90	438410	20.0	18.1	
29 2-Methyl-2-propanol	59	3.405	3.405	0.000	100	317458	200.0	190.5	
30 Acrylonitrile	53	3.535	3.535	0.000	99	1026607	200.0	187.8	
32 Methyl tert-butyl ether	73	3.559	3.559	0.000	94	879190	20.0	19.8	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	93	388938	20.0	20.9	
33 Hexane	57	3.795	3.795	0.000	89	150282	20.0	18.3	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	99	484721	20.0	21.0	
35 Vinyl acetate	43	3.949	3.949	0.000	96	280944	20.0	21.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.411	4.411	-0.001	96	225282	40.0	36.8	
39 cis-1,2-Dichloroethene	61	4.411	4.411	-0.001	78	378722	20.0	19.1	
41 2,2-Dichloropropane	77	4.411	4.422	-0.012	82	213102	20.0	18.5	
45 Chlorobromomethane	49	4.612	4.612	0.000	87	204574	20.0	19.6	
46 Tetrahydrofuran	42	4.659	4.659	0.000	86	147324	40.0	37.9	
47 Chloroform	83	4.683	4.683	0.000	93	472037	20.0	19.7	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	97	338022	20.0	19.2	
49 Cyclohexane	84	4.919	4.919	0.000	83	292149	20.0	19.2	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	97	337874	20.0	21.4	
51 Carbon tetrachloride	117	5.002	5.002	0.000	96	326109	20.0	20.2	
52 Isobutyl alcohol	41	5.049	5.050	-0.001	92	206325	500.0	459.2	
53 Benzene	78	5.168	5.180	-0.012	96	1121577	20.0	19.9	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	97	366127	20.0	18.7	
56 n-Heptane	100	5.381	5.381	0.000	86	41316	20.0	18.4	
58 Trichloroethene	130	5.736	5.724	0.012	93	317663	20.0	20.9	
60 Methylcyclohexane	83	5.913	5.913	0.000	84	234287	20.0	19.4	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	94	261997	20.0	20.0	
64 Dibromomethane	174	6.043	6.044	-0.001	88	234737	20.0	19.8	
63 1,4-Dioxane	88	6.043	6.044	-0.001	35	80406	400.0	397.9	
65 Dichlorobromomethane	83	6.174	6.174	0.000	98	345655	20.0	18.4	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	93	217237	24.0	22.9	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	96	456982	20.0	19.9	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	94	478428	40.0	36.4	
70 Toluene	91	6.895	6.896	-0.001	99	1192750	20.0	19.6	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	91	426840	20.0	20.8	
72 Ethyl methacrylate	69	7.156	7.156	0.000	87	353625	20.0	19.4	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	89	265212	20.0	19.9	
75 Tetrachloroethene	166	7.416	7.416	0.000	96	269840	20.0	20.1	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	89	467619	20.0	19.3	
77 2-Hexanone	43	7.487	7.487	0.000	93	329970	40.0	34.3	
79 Chlorodibromomethane	129	7.653	7.653	0.000	89	273424	20.0	19.3	
80 Ethylene Dibromide	107	7.771	7.771	0.000	98	276212	20.0	19.6	
82 Chlorobenzene	112	8.256	8.256	0.000	97	842992	20.0	19.8	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	94	288598	20.0	19.6	
84 Ethylbenzene	106	8.351	8.351	0.000	97	396207	20.0	20.0	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	96	476469	20.0	18.7	
86 o-Xylene	106	8.872	8.872	0.000	96	504485	20.0	19.6	
87 Styrene	104	8.883	8.883	0.000	95	860980	20.0	20.1	
88 Bromoform	173	9.073	9.073	0.000	97	187541	20.0	18.0	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	1017580	20.0	19.6	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	98	355492	20.0	19.3	
92 Bromobenzene	156	9.570	9.570	0.000	87	397986	20.0	20.4	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	84	135092	20.0	19.8	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	71	100948	20.0	20.5	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	284525	20.0	19.5	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	276620	20.0	20.3	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	94	848902	20.0	20.0	
98 4-Chlorotoluene	126	9.877	9.877	0.000	96	320011	20.0	20.6	
99 tert-Butylbenzene	119	10.185	10.185	0.000	89	719452	20.0	19.3	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	93	921037	20.0	19.4	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	916450	20.0	19.6	
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	99	621949	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 4-Isopropyltoluene	119	10.564	10.564	0.000	97	852720	20.0	19.5	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	97	665205	20.0	20.4	
108 n-Butylbenzene	91	11.001	11.002	-0.001	96	639943	20.0	19.1	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	98	674284	20.0	20.3	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	90	92743	20.0	18.5	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	94	372238	20.0	19.1	
113 Hexachlorobutadiene	225	12.918	12.930	-0.012	95	153270	20.0	18.9	
114 Naphthalene	128	13.013	13.001	0.012	96	1013139	20.0	19.1	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	96	333351	20.0	19.9	
S 126 Xylenes, Total	106				0		40.0	38.3	
S 127 Trihalomethanes, Total	1				0		80.0	75.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMFASGW_00084	Amount Added: 16.00	Units: uL		
VMFASAW_00071	Amount Added: 16.00	Units: uL		
VMFASPW_00087	Amount Added: 16.00	Units: uL		
vm100ss_stk_00019	Amount Added: 0.83	Units: uL	Run Reagent	
vmDist_H2o_00044	Amount Added: 0.00	Units:	Run Reagent	
vm100is_stk_00022	Amount Added: 1.00	Units: uL	Run Reagent	

Report Date: 02-Mar-2015 15:08:14 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243096.D

Injection Date: 28-Feb-2015 18:00:30 Instrument ID: A3UX12 Operator ID: 001904

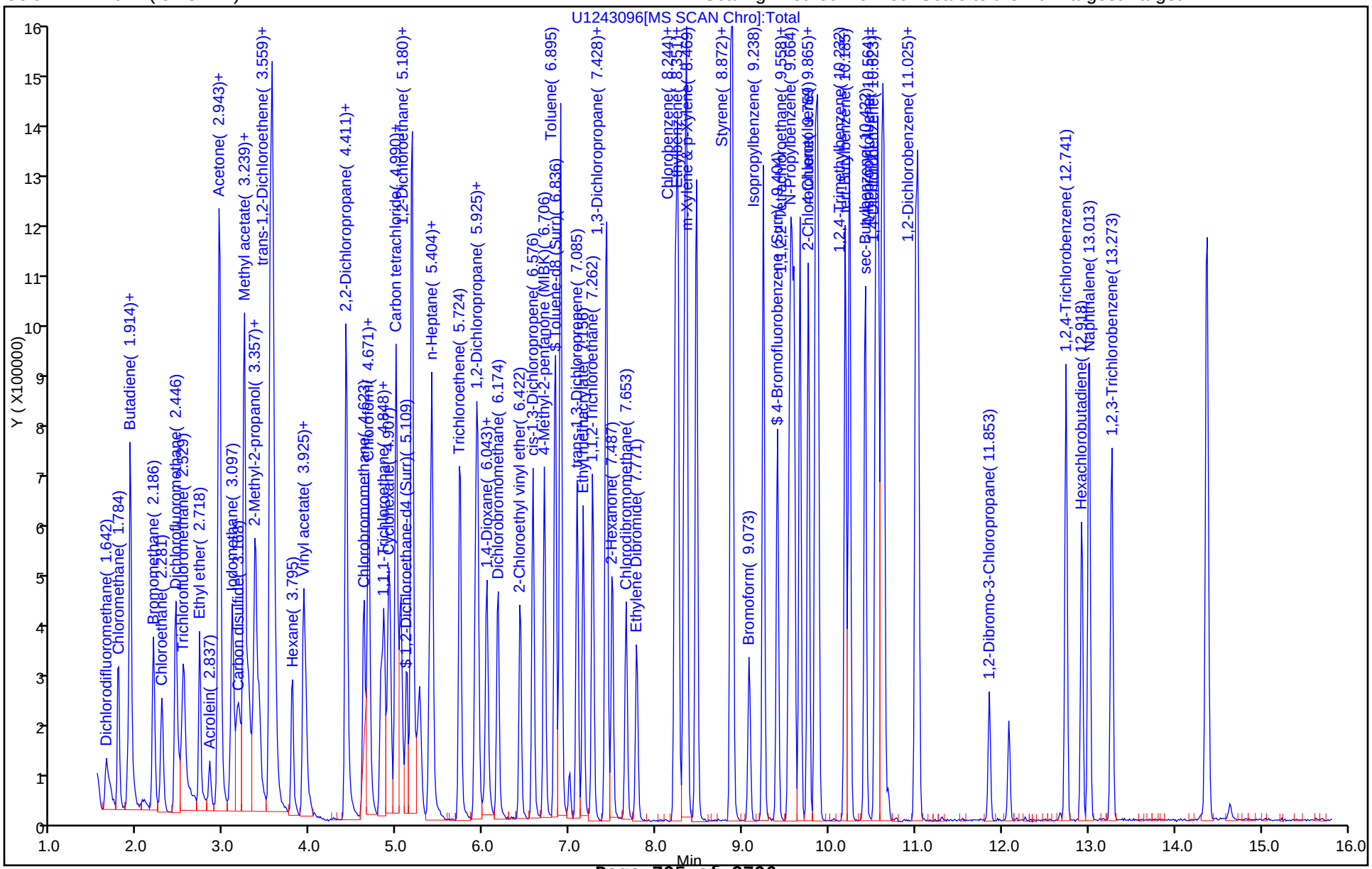
Lims ID: ICV Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: 8260_12 Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-170010/17 Calibration Date: 02/28/2015 18:25

Instrument ID: A3UX12 Calib Start Date: 02/28/2015 12:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/28/2015 14:44

Lab File ID: U1243097.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.3019	0.2659		0.0145	0.0165	-11.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3550	0.3114		0.0145	0.0165	-12.3	20.0
Toluene-d8 (Surr)	Ave	1.500	1.353		0.0149	0.0165	-9.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5683	0.5330		0.0155	0.0165	-6.2	20.0

Report Date: 02-Mar-2015 15:08:15 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243097.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 28-Feb-2015 18:25:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-017
Operator ID: 001904 Instrument ID: A3UX12
Sublist:

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:08:12 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: laveyt Date: 02-Mar-2015 13:59:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	839155	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	85	686344	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	93	364039	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	94	184292	16.5	14.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.121	5.121	-0.001	89	215852	16.5	14.5	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	766797	16.5	14.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	95	302155	16.5	15.5	
25 Acetonitrile	41	3.204	3.203	0.001	99	351914	200.0	194.2	
36 Isopropyl ether	87	3.961	3.961	0.000	92	264214	20.0	21.7	
37 2-Chloro-1,3-butadiene	53	3.996	3.996	0.000	89	349437	20.0	22.1	
38 Tert-butyl ethyl ether	59	4.269	4.268	0.001	95	824604	20.0	21.6	
42 Ethyl acetate	43	4.458	4.458	0.000	99	214288	40.0	70.3	
43 Propionitrile	54	4.470	4.470	0.000	98	396240	200.0	209.4	
44 Methacrylonitrile	41	4.600	4.600	0.000	90	1526254	200.0	209.3	
55 Tert-amyl methyl ether	73	5.251	5.251	0.000	98	874920	20.0	21.3	
57 n-Butanol	56	5.629	5.629	0.000	81	209713	500.0	492.0	
59 Ethyl acrylate	55	5.795	5.795	0.000	99	311536	20.0	19.0	
62 Methyl methacrylate	41	6.008	6.008	0.000	85	447318	40.0	40.1	
66 2-Nitropropane	41	6.375	6.375	0.000	98	98082	40.0	38.7	
78 n-Butyl acetate	43	7.605	7.605	0.000	98	203526	NC	NC	
81 1-Chlorohexane	91	8.209	8.209	0.000	89	241014	20.0	22.3	
90 Cyclohexanone	55	9.345	9.345	0.000	89	200491	200.0	369.9	
100 Pentachloroethane	167	10.209	10.209	0.000	95	170328	NC	NC	
106 1,2,3-Trimethylbenzene	105	10.682	10.682	0.000	97	1000008	20.0	19.5	
107 Benzyl chloride	91	10.777	10.777	0.000	99	620027	NC	NC	
111 1,3,5-Trichlorobenzene	180	12.078	12.078	0.000	97	393824	20.0	19.0	
116 2-Methylnaphthalene	142	14.374	14.374	0.000	94	773329	40.0	44.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMFASA9W_00048	Amount Added:	16.00	Units: uL	
vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

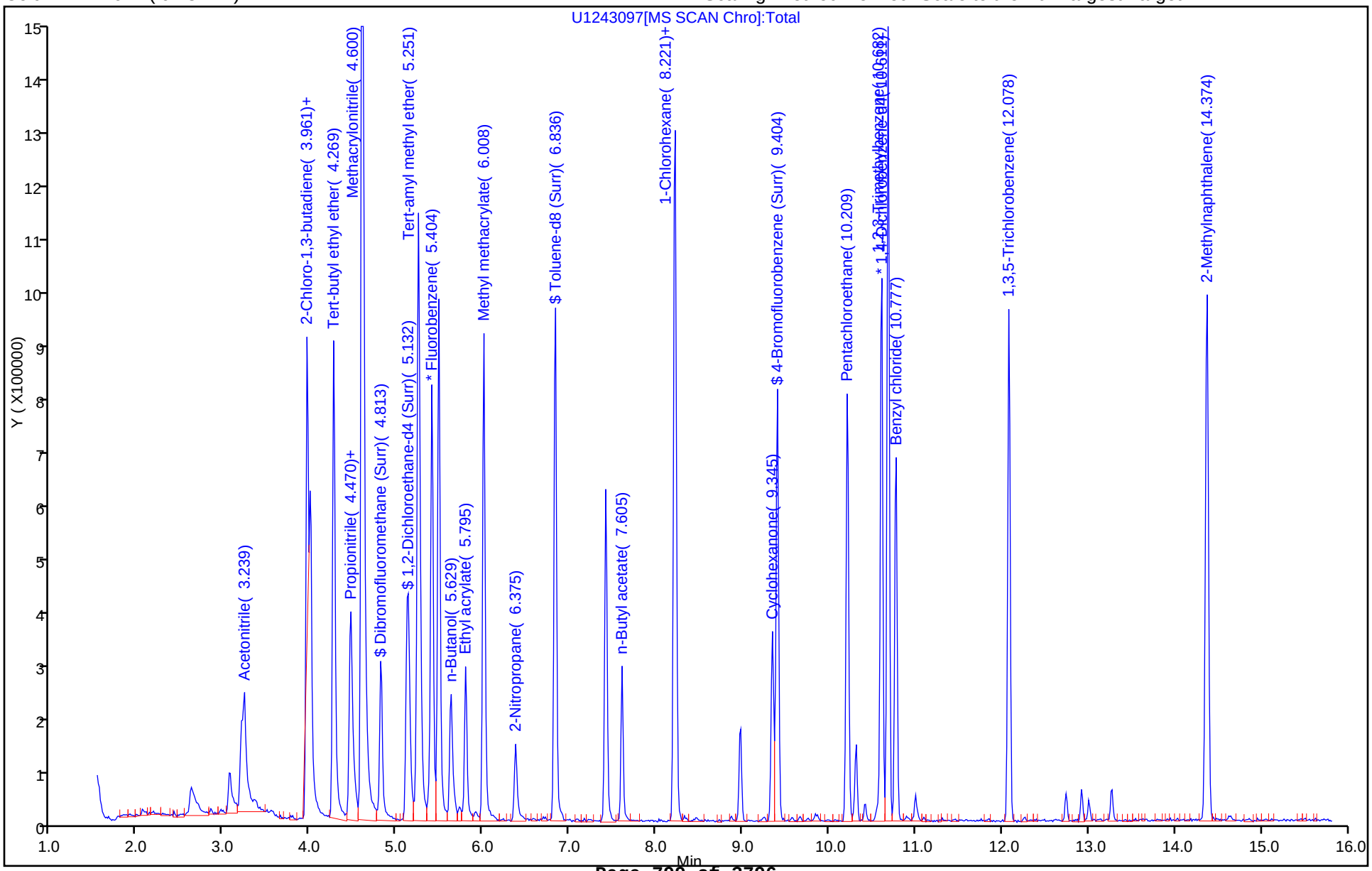
Report Date: 02-Mar-2015 15:08:15 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243097.D

Injection Date:	28-Feb-2015 18:25:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	ICV a9			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177316/3 Calibration Date: 04/21/2015 16:23

Instrument ID: A3UX12 Calib Start Date: 02/28/2015 12:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/28/2015 14:44

Lab File ID: U1243873.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3885	0.1000	0.0166	0.0200	-16.9	20.0
Chloromethane	Ave	0.4709	0.4304	0.1000	0.0183	0.0200	-8.6	20.0
Vinyl chloride	Ave	0.4947	0.4791	0.1000	0.0194	0.0200	-3.2	20.0
Bromomethane	Ave	0.3551	0.3529	0.0500	0.0199	0.0200	-0.6	20.0
Chloroethane	Ave	0.3413	0.3344	0.0500	0.0196	0.0200	-2.0	20.0
Dichlorofluoromethane	Ave	0.6747	0.7378		0.0219	0.0200	9.4	20.0
Trichlorofluoromethane	Lin1		0.6243	0.1000	0.0218	0.0200	8.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2956	0.3392	0.0500	0.0229	0.0200	14.7	20.0
1,1-Dichloroethene	Ave	0.5800	0.5650	0.1000	0.0195	0.0200	-2.6	20.0
Acetone	Lin1		0.0936	0.0500	0.0347	0.0400	-13.1	20.0
Iodomethane	Ave	0.6495	0.7231		0.0223	0.0200	11.3	20.0
Carbon disulfide	Ave	0.7224	0.8144	0.1000	0.0225	0.0200	12.7	20.0
Methylene Chloride	Ave	0.5448	0.4949	0.1000	0.0182	0.0200	-9.2	20.0
2-Methyl-2-propanol	Ave	0.0375	0.0287		0.153	0.200	-23.6*	20.0
Methyl tert-butyl ether	Ave	1.001	0.9455	0.1000	0.0189	0.0200	-5.5	20.0
trans-1,2-Dichloroethene	Ave	0.4195	0.4221	0.1000	0.0201	0.0200	0.6	20.0
1,1-Dichloroethane	Ave	0.5205	0.5225	0.1000	0.0201	0.0200	0.4	20.0
Vinyl acetate	Ave	0.2917	0.1557		0.0102	0.0192	-46.6*	20.0
2-Butanone (MEK)	Lin1		0.1269	0.0500	0.0368	0.0400	-8.0	20.0
cis-1,2-Dichloroethene	Ave	0.4453	0.3950	0.1000	0.0177	0.0200	-11.3	20.0
2,2-Dichloropropane	Ave	0.2591	0.1855		0.0143	0.0200	-28.4*	20.0
Chlorobromomethane	Ave	0.2353	0.2717		0.0231	0.0200	15.5	20.0
Chloroform	Ave	0.5380	0.5485	0.2000	0.0204	0.0200	1.9	20.0
1,1,1-Trichloroethane	Ave	0.3968	0.3878	0.1000	0.0195	0.0200	-2.3	20.0
1,1-Dichloropropene	Ave	0.3555	0.3510		0.0197	0.0200	-1.3	20.0
Carbon tetrachloride	Ave	0.3631	0.2916	0.1000	0.0161	0.0200	-19.7	20.0
Benzene	Ave	1.269	1.240	0.5000	0.0195	0.0200	-2.3	20.0
1,2-Dichloroethane	Ave	0.4395	0.4013	0.1000	0.0183	0.0200	-8.7	20.0
Trichloroethene	Ave	0.3428	0.3535	0.2000	0.0206	0.0200	3.1	20.0
1,2-Dichloropropane	Ave	0.2955	0.2722	0.1000	0.0184	0.0200	-7.9	20.0
Dibromomethane	Ave	0.2667	0.2523		0.0189	0.0200	-5.4	20.0
Dichlorobromomethane	Ave	0.4236	0.3811	0.1000	0.0180	0.0200	-10.0	20.0
cis-1,3-Dichloropropene	Ave	0.5176	0.4022	0.1500	0.0155	0.0200	-22.3*	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2961	0.2465	0.0500	0.0333	0.0400	-16.8	20.0
Toluene	Ave	1.702	1.674	0.4000	0.0197	0.0200	-1.7	20.0
trans-1,3-Dichloropropene	Ave	0.5734	0.4125	0.1000	0.0144	0.0200	-28.1*	20.0
1,1,2-Trichloroethane	Ave	0.3735	0.3730	0.1000	0.0200	0.0200	-0.1	20.0
Tetrachloroethene	Ave	0.3747	0.3573	0.2000	0.0191	0.0200	-4.7	20.0
1,3-Dichloropropane	Ave	0.6763	0.6470		0.0191	0.0200	-4.3	20.0
2-Hexanone	Ave	0.2692	0.2209	0.0500	0.0328	0.0400	-17.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177316/3 Calibration Date: 04/21/2015 16:23

Instrument ID: A3UX12 Calib Start Date: 02/28/2015 12:41

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/28/2015 14:44

Lab File ID: U1243873.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3957	0.3177		0.0161	0.0200	-19.7	20.0
Chlorobenzene	Ave	1.192	1.197	0.3000	0.0201	0.0200	0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4128	0.3199		0.0155	0.0200	-22.5*	20.0
Ethylbenzene	Ave	0.5548	0.5389		0.0194	0.0200	-2.9	20.0
m-Xylene & p-Xylene	Ave	0.7127	0.6613		0.0186	0.0200	-7.2	20.0
o-Xylene	Ave	0.7193	0.7080		0.0197	0.0200	-1.6	20.0
Styrene	Ave	1.200	1.196	0.3000	0.0199	0.0200	-0.3	20.0
Bromoform	Ave	0.2907	0.1808	0.1000	0.0124	0.0200	-37.8*	20.0
Isopropylbenzene	Ave	1.454	1.380	0.1000	0.0190	0.0200	-5.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.000	0.999	0.3000	0.0200	0.0200	-0.0	20.0
Bromobenzene	Ave	1.059	1.081		0.0204	0.0200	2.1	20.0
1,2,3-Trichloropropane	Ave	0.3691	0.4014		0.0217	0.0200	8.7	20.0
N-Propylbenzene	Ave	0.7924	0.8070		0.0204	0.0200	1.8	20.0
2-Chlorotoluene	Ave	0.7397	0.8391		0.0227	0.0200	13.4	20.0
1,3,5-Trimethylbenzene	Ave	2.301	2.407		0.0209	0.0200	4.6	20.0
4-Chlorotoluene	Ave	0.8399	0.8770		0.0209	0.0200	4.4	20.0
tert-Butylbenzene	Ave	2.020	2.008		0.0199	0.0200	-0.6	20.0
1,2,4-Trimethylbenzene	Ave	2.576	2.677		0.0208	0.0200	3.9	20.0
sec-Butylbenzene	Ave	2.529	2.640		0.0209	0.0200	4.4	20.0
1,3-Dichlorobenzene	Ave	1.702	1.775	0.6000	0.0209	0.0200	4.3	20.0
4-Isopropyltoluene	Ave	2.375	2.474		0.0208	0.0200	4.2	20.0
1,4-Dichlorobenzene	Ave	1.764	1.923	0.5000	0.0218	0.0200	9.0	20.0
n-Butylbenzene	Ave	1.819	1.868		0.0205	0.0200	2.7	20.0
1,2-Dichlorobenzene	Ave	1.801	1.885	0.4000	0.0209	0.0200	4.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2722	0.1754	0.0500	0.0129	0.0200	-35.6*	20.0
1,2,4-Trichlorobenzene	Ave	1.057	0.9542	0.2000	0.0181	0.0200	-9.7	20.0
Hexachlorobutadiene	Ave	0.4393	0.3296		0.0150	0.0200	-25.0*	20.0
Naphthalene	Ave	2.872	2.621		0.0183	0.0200	-8.7	20.0
1,2,3-Trichlorobenzene	Ave	0.9065	0.8207		0.0181	0.0200	-9.5	20.0
Dibromofluoromethane (Surr)	Ave	0.3019	0.3140		0.0172	0.0165	4.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3550	0.3035		0.0141	0.0165	-14.5	20.0
Toluene-d8 (Surr)	Ave	1.500	1.365		0.0150	0.0165	-9.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5683	0.4962		0.0144	0.0165	-12.7	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243873.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Apr-2015 16:23:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-003
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 18:31:03 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 18:31:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.405	5.405	0.000	99	697332	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	82	558035	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	93	273878	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	93	180875	16.5	17.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.109	0.000	88	174785	16.5	14.1	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	629387	16.5	15.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	97	228700	16.5	14.4	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	99	270940	20.0	16.6	
10 Chloromethane	50	1.784	1.784	0.000	98	300151	20.0	18.3	
11 Vinyl chloride	62	1.902	1.902	0.000	83	334068	20.0	19.4	
12 Butadiene	54	1.914	1.914	0.000	97	247263	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	90	246073	20.0	19.9	
14 Chloroethane	64	2.281	2.281	0.000	98	233164	20.0	19.6	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	96	514512	20.0	21.9	
16 Trichlorofluoromethane	101	2.505	2.505	0.000	85	435323	20.0	21.8	
17 Ethyl ether	59	2.718	2.718	0.000	86	155468	20.0	18.1	
18 Acrolein	56	2.837	2.837	0.000	100	115909	100.0	222.1	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	71	236499	20.0	22.9	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	94	393960	20.0	19.5	
21 Acetone	43	2.967	2.967	0.000	72	130582	40.0	34.7	
23 Iodomethane	142	3.097	3.097	0.000	97	504213	20.0	22.3	
24 Carbon disulfide	76	3.156	3.156	0.000	99	567891	20.0	22.5	M
26 Methyl acetate	43	3.239	3.239	0.000	96	702962	100.0	83.9	
27 3-Chloro-1-propene	41	3.286	3.286	0.000	61	123294	20.0	14.5	
28 Methylene Chloride	49	3.357	3.357	0.000	86	345088	20.0	18.2	
29 2-Methyl-2-propanol	59	3.405	3.405	0.000	98	199839	200.0	152.8	
30 Acrylonitrile	53	3.535	3.535	0.000	98	757822	200.0	176.7	
32 Methyl tert-butyl ether	73	3.559	3.559	0.000	93	659331	20.0	18.9	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	94	294351	20.0	20.1	
33 Hexane	57	3.795	3.795	0.000	84	114390	20.0	17.7	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	99	364333	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.000	97	104197	19.2	10.2	
40 2-Butanone (MEK)	43	4.411	4.411	0.000	99	176958	40.0	36.8	
39 cis-1,2-Dichloroethene	61	4.411	4.411	0.000	78	275435	20.0	17.7	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	75	129349	20.0	14.3	
45 Chlorobromomethane	49	4.624	4.624	0.000	84	189453	20.0	23.1	
46 Tetrahydrofuran	42	4.659	4.659	0.000	81	104609	40.0	34.1	
47 Chloroform	83	4.671	4.671	0.000	93	382480	20.0	20.4	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	96	270400	20.0	19.5	
49 Cyclohexane	84	4.919	4.919	0.000	82	239423	20.0	20.1	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	97	244754	20.0	19.7	
51 Carbon tetrachloride	117	5.002	5.002	0.000	96	203345	20.0	16.1	
52 Isobutyl alcohol	41	5.050	5.050	0.000	89	55027	500.0	156.1	
53 Benzene	78	5.168	5.168	0.000	95	864449	20.0	19.5	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	96	279838	20.0	18.3	
56 n-Heptane	100	5.381	5.381	0.000	87	28105	20.0	16.0	
58 Trichloroethene	130	5.724	5.724	0.000	96	246472	20.0	20.6	
60 Methylcyclohexane	83	5.913	5.913	0.000	83	194825	20.0	20.6	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	90	189808	20.0	18.4	
64 Dibromomethane	174	6.043	6.043	0.000	89	175933	20.0	18.9	
63 1,4-Dioxane	88	6.055	6.055	0.000	47	84796	400.0	534.8	
65 Dichlorobromomethane	83	6.162	6.162	0.000	99	265774	20.0	18.0	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	92	265004	40.0	35.6	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	96	280440	20.0	15.5	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	94	343714	40.0	33.3	
70 Toluene	91	6.895	6.895	0.000	99	933924	20.0	19.7	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	91	230161	20.0	14.4	
72 Ethyl methacrylate	69	7.156	7.156	0.000	87	182079	20.0	12.8	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	89	208117	20.0	20.0	
75 Tetrachloroethene	166	7.416	7.416	0.000	97	199373	20.0	19.1	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	87	361031	20.0	19.1	
77 2-Hexanone	43	7.487	7.487	0.000	93	246579	40.0	32.8	
79 Chlorodibromomethane	129	7.653	7.653	0.000	91	177310	20.0	16.1	
80 Ethylene Dibromide	107	7.771	7.771	0.000	97	214931	20.0	19.6	
82 Chlorobenzene	112	8.244	8.244	0.000	98	668118	20.0	20.1	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	91	178536	20.0	15.5	
84 Ethylbenzene	106	8.351	8.351	0.000	98	300738	20.0	19.4	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	96	369030	20.0	18.6	
86 o-Xylene	106	8.872	8.872	0.000	95	395101	20.0	19.7	
87 Styrene	104	8.883	8.883	0.000	95	667346	20.0	19.9	
88 Bromoform	173	9.073	9.073	0.000	95	100897	20.0	12.4	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	770136	20.0	19.0	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	96	273709	20.0	20.0	
92 Bromobenzene	156	9.570	9.570	0.000	90	296029	20.0	20.4	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	83	109930	20.0	21.7	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	66	45414	20.0	12.4	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	221015	20.0	20.4	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	229796	20.0	22.7	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	96	659160	20.0	20.9	
98 4-Chlorotoluene	126	9.866	9.866	0.000	98	240186	20.0	20.9	
99 tert-Butylbenzene	119	10.185	10.185	0.000	91	550048	20.0	19.9	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	94	733149	20.0	20.8	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	723027	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	99	486185	20.0	20.9	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	96	677700	20.0	20.8	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	95	526557	20.0	21.8	
108 n-Butylbenzene	91	11.001	11.001	0.000	96	511543	20.0	20.5	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	98	516254	20.0	20.9	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	89	48032	20.0	12.9	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	93	261326	20.0	18.1	
113 Hexachlorobutadiene	225	12.918	12.918	0.000	97	90261	20.0	15.0	
114 Naphthalene	128	13.001	13.001	0.000	97	717808	20.0	18.3	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	96	224773	20.0	18.1	
S 124 1,2-Dichloroethene, Total	96				0		40.0	37.9	
S 125 1,3-Dichloropropene, Total	75				0		40.0	29.9	
S 126 Xylenes, Total	106				0		40.0	38.2	
S 127 Trihalomethanes, Total	1				0		80.0	66.9	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

VMRGAS_00098	Amount Added:	16.00	Units: uL	
VMAROLISTDW_00096	Amount Added:	16.00	Units: uL	
VMRPRIMW_00122	Amount Added:	16.00	Units: uL	
vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Apr-2015 18:31:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243873.D

Injection Date: 21-Apr-2015 16:23:30 Instrument ID: A3UX12 Operator ID: 001904

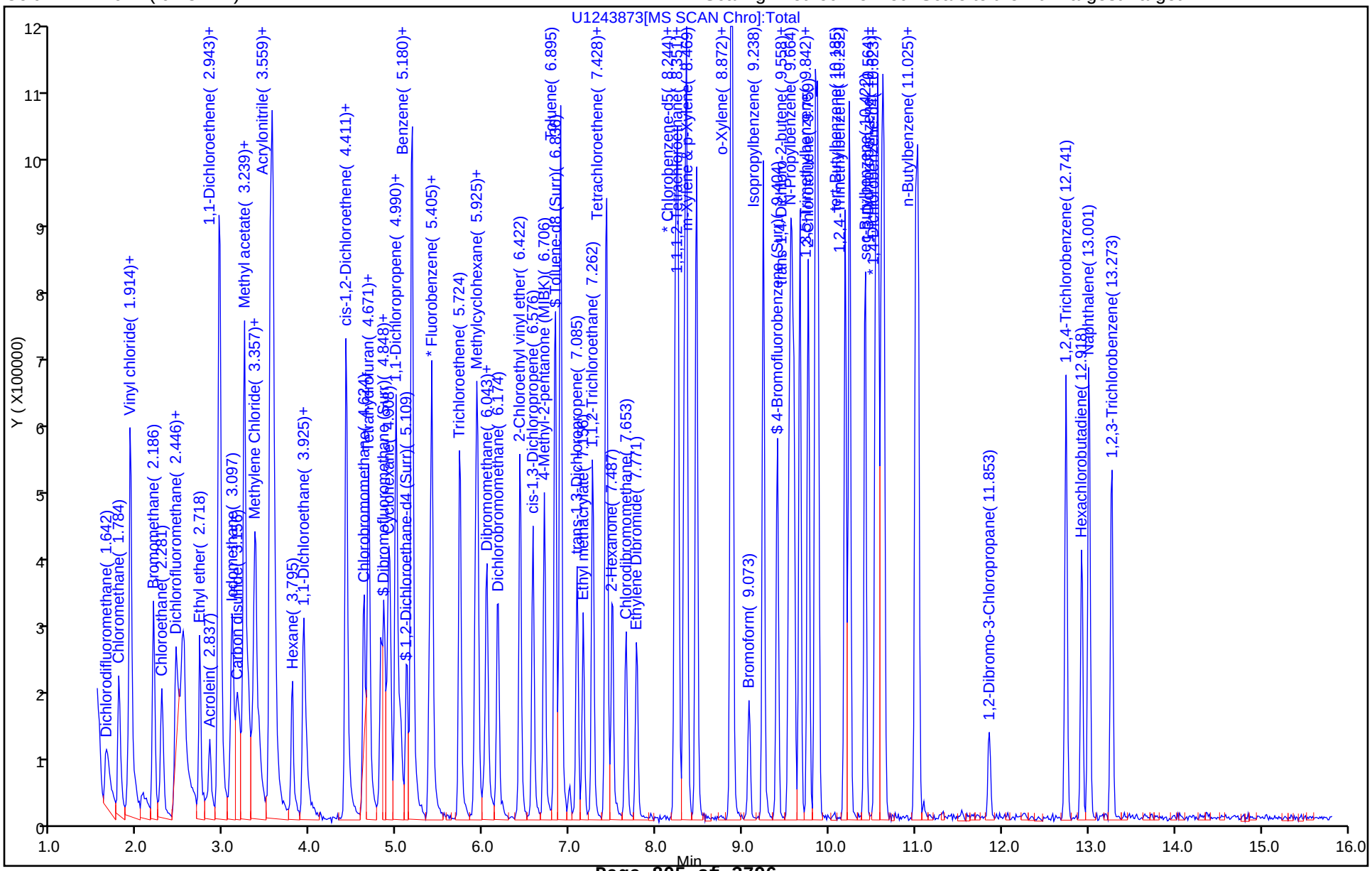
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260_12 Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

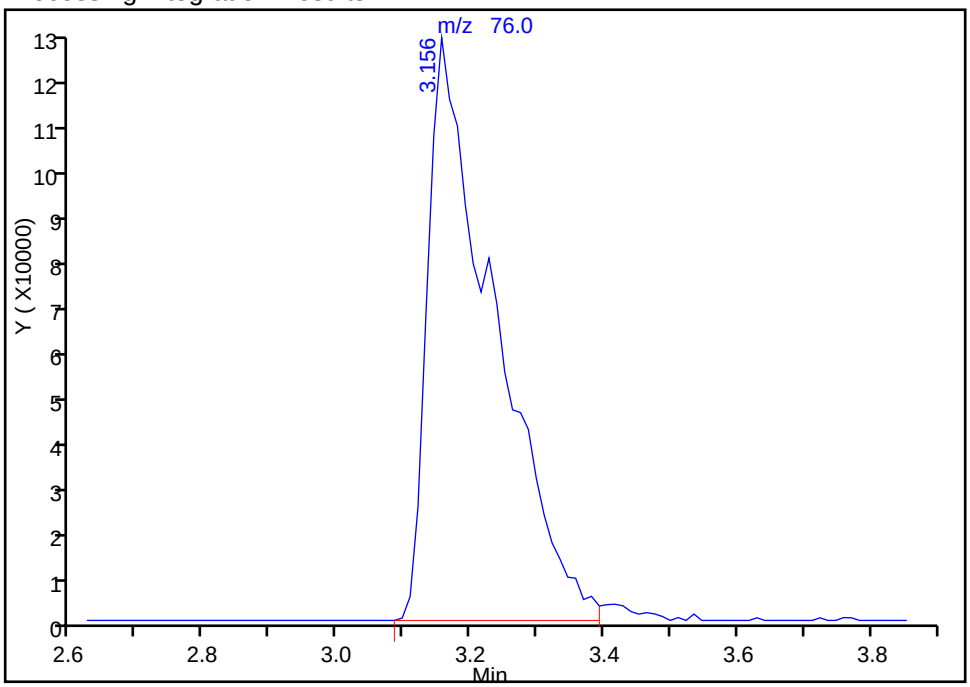
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243873.D
Injection Date: 21-Apr-2015 16:23:30 Instrument ID: A3UX12
Lims ID: CCVIS
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12 Limit Group: MSV 8260DOD ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Carbon disulfide, CAS: 75-15-0

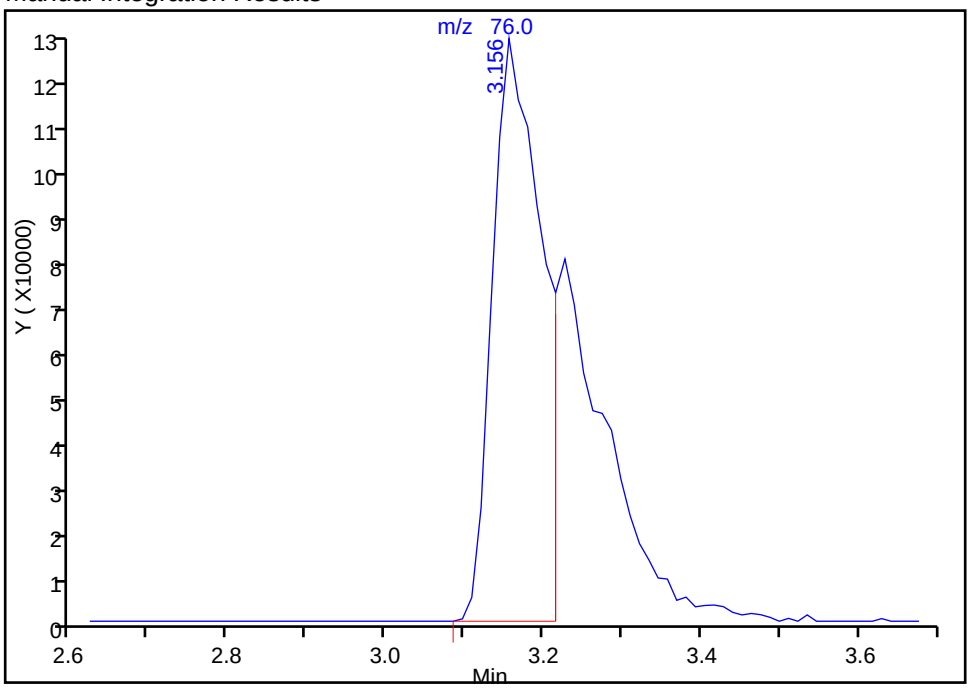
Processing Integration Results

RT: 3.16
Area: 891587
Amount: 35.399481
Amount Units: ug/l



Manual Integration Results

RT: 3.16
Area: 567891
Amount: 22.547487
Amount Units: ug/l



Reviewer: laveyt, 21-Apr-2015 17:12:14
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-175604/8 Calibration Date: 04/08/2015 15:15

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7072.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1843	0.1350	0.1000	0.00732	0.0100	-26.8*	20.0
Chloromethane	Ave	0.2536	0.2176	0.1000	0.00858	0.0100	-14.2	20.0
Vinyl chloride	Ave	0.2786	0.2390	0.1000	0.00858	0.0100	-14.2	20.0
Bromomethane	Ave	0.1343	0.1103	0.0500	0.00821	0.0100	-17.9	20.0
Chloroethane	Ave	0.1634	0.1452	0.0500	0.00888	0.0100	-11.2	20.0
Dichlorofluoromethane	Ave	0.3657	0.3367		0.00921	0.0100	-7.9	20.0
Trichlorofluoromethane	Ave	0.2428	0.2383	0.1000	0.00981	0.0100	-1.9	20.0
Ethyl ether	Ave	0.1803	0.1843		0.0102	0.0100	2.2	20.0
Acrolein	Ave	0.0233	0.0234		0.0502	0.0500	0.4	20.0
1,1-Dichloroethene	Ave	0.2023	0.2097	0.1000	0.0104	0.0100	3.7	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1572	0.1622	0.0500	0.0103	0.0100	3.2	20.0
Acetone	Ave	0.0604	0.0585	0.0500	0.0194	0.0200	-3.2	20.0
Iodomethane	Ave	0.3182	0.3423		0.0108	0.0100	7.6	20.0
Carbon disulfide	Ave	0.6221	0.6706	0.1000	0.0108	0.0100	7.8	20.0
3-Chloro-1-propene	Ave	0.1377	0.1290		0.00937	0.0100	-6.3	20.0
Methyl acetate	Ave	0.1332	0.1374	0.1000	0.0516	0.0500	3.2	20.0
Methylene Chloride	Lin1		0.2585	0.1000	0.0105	0.0100	4.7	20.0
2-Methyl-2-propanol	Ave	0.0128	0.0123		0.0964	0.100	-3.6	20.0
Acrylonitrile	Ave	0.0691	0.0686		0.0993	0.100	-0.7	20.0
Methyl tert-butyl ether	Ave	0.5917	0.6062	0.1000	0.0102	0.0100	2.4	20.0
trans-1,2-Dichloroethene	Ave	0.2427	0.2420	0.1000	0.00997	0.0100	-0.3	20.0
Hexane	Ave	0.0585	0.0671		0.0115	0.0100	14.6	20.0
1,1-Dichloroethane	Ave	0.3969	0.4158	0.1000	0.0105	0.0100	4.8	20.0
Vinyl acetate	Ave	0.1675	0.1183		0.00706	0.0100	-29.4*	20.0
2-Butanone (MEK)	Ave	0.0752	0.0759	0.0500	0.0202	0.0200	0.9	20.0
cis-1,2-Dichloroethene	Ave	0.2590	0.2616	0.1000	0.0101	0.0100	1.0	20.0
2,2-Dichloropropane	Ave	0.2543	0.2481		0.00976	0.0100	-2.4	20.0
Bromochloromethane	Ave	0.1215	0.1212		0.00998	0.0100	-0.2	20.0
Chloroform	Ave	0.3887	0.3881	0.2000	0.00999	0.0100	-0.1	20.0
1,1,1-Trichloroethane	Ave	0.2957	0.3004	0.1000	0.0102	0.0100	1.6	20.0
Cyclohexane	Ave	0.3656	0.3762	0.1000	0.0103	0.0100	2.9	20.0
1,1-Dichloropropene	Ave	0.2996	0.3204		0.0107	0.0100	6.9	20.0
Carbon tetrachloride	Ave	0.2428	0.2510	0.1000	0.0103	0.0100	3.4	20.0
Isobutyl alcohol	Ave	0.0044	0.0040		0.223	0.250	-10.9	20.0
1,2-Dichloroethane	Ave	0.2704	0.2706	0.1000	0.0100	0.0100	0.0	20.0
Benzene	Ave	1.002	0.9932	0.5000	0.00991	0.0100	-0.9	20.0
Trichloroethene	Ave	0.2546	0.2585	0.2000	0.0102	0.0100	1.5	20.0
Methylcyclohexane	Ave	0.3877	0.3879	0.1000	0.0100	0.0100	0.0	20.0
1,2-Dichloropropane	Ave	0.2267	0.2249	0.1000	0.00992	0.0100	-0.8	20.0
Dibromomethane	Ave	0.1203	0.1212		0.0101	0.0100	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-175604/8 Calibration Date: 04/08/2015 15:15

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7072.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.0017	0.0016		0.193	0.200	-3.3	20.0
Bromodichloromethane	Ave	0.2785	0.2746	0.1000	0.00986	0.0100	-1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1194	0.1182		0.0119	0.0120	-1.0	20.0
cis-1,3-Dichloropropene	Ave	0.3280	0.3388	0.1500	0.0103	0.0100	3.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1486	0.1470	0.0500	0.0198	0.0200	-1.0	20.0
Toluene	Ave	1.481	1.477	0.4000	0.00998	0.0100	-0.2	20.0
trans-1,3-Dichloropropene	Ave	0.3760	0.4124	0.1000	0.0110	0.0100	9.7	20.0
Ethyl methacrylate	Ave	0.3039	0.3135		0.0103	0.0100	3.1	20.0
1,1,2-Trichloroethane	Ave	0.2656	0.2559	0.1000	0.00964	0.0100	-3.6	20.0
1,3-Dichloropropane	Ave	0.4708	0.4586		0.00974	0.0100	-2.6	20.0
Tetrachloroethene	Ave	0.2804	0.2884	0.2000	0.0103	0.0100	2.8	20.0
2-Hexanone	Ave	0.1447	0.1415	0.0500	0.0196	0.0200	-2.2	20.0
Dibromochloromethane	Ave	0.2720	0.2725		0.0100	0.0100	0.2	20.0
1,2-Dibromoethane	Ave	0.2521	0.2526		0.0100	0.0100	0.2	20.0
Chlorobenzene	Ave	0.9491	0.9260	0.3000	0.00976	0.0100	-2.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3021	0.2978		0.00986	0.0100	-1.4	20.0
Ethylbenzene	Ave	0.5076	0.5078		0.0100	0.0100	0.0	20.0
m-Xylene & p-Xylene	Ave	0.6356	0.6337		0.00997	0.0100	-0.3	20.0
o-Xylene	Ave	0.6141	0.6176		0.0101	0.0100	0.6	20.0
Styrene	Ave	0.9843	0.9112	0.3000	0.00926	0.0100	-7.4	20.0
Bromoform	Ave	0.1657	0.1625	0.1000	0.00980	0.0100	-2.0	20.0
Isopropylbenzene	Ave	1.625	1.596	0.1000	0.00982	0.0100	-1.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5868	0.5613	0.3000	0.00957	0.0100	-4.3	20.0
Bromobenzene	Ave	0.7228	0.7188		0.00994	0.0100	-0.6	20.0
1,2,3-Trichloropropane	Ave	0.1823	0.1767		0.00969	0.0100	-3.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1434	0.1424		0.00993	0.0100	-0.7	20.0
N-Propylbenzene	Ave	0.7916	0.7835		0.00990	0.0100	-1.0	20.0
2-Chlorotoluene	Ave	0.6834	0.6608		0.00967	0.0100	-3.3	20.0
1,3,5-Trimethylbenzene	Ave	2.398	2.370		0.00988	0.0100	-1.2	20.0
4-Chlorotoluene	Ave	0.7270	0.7015		0.00965	0.0100	-3.5	20.0
tert-Butylbenzene	Ave	2.090	2.047		0.00979	0.0100	-2.1	20.0
1,2,4-Trimethylbenzene	Ave	2.508	2.394		0.00955	0.0100	-4.5	20.0
sec-Butylbenzene	Ave	3.014	2.877		0.00955	0.0100	-4.5	20.0
1,3-Dichlorobenzene	Ave	1.414	1.377	0.6000	0.00973	0.0100	-2.7	20.0
4-Isopropyltoluene	Ave	2.630	2.507		0.00953	0.0100	-4.7	20.0
1,4-Dichlorobenzene	Ave	1.449	1.383	0.5000	0.00955	0.0100	-4.5	20.0
n-Butylbenzene	Ave	2.195	2.110		0.00961	0.0100	-3.9	20.0
1,2-Dichlorobenzene	Ave	1.338	1.298	0.4000	0.00970	0.0100	-3.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0983	0.0971	0.0500	0.00988	0.0100	-1.2	20.0
1,2,4-Trichlorobenzene	Ave	0.8313	0.7795	0.2000	0.00938	0.0100	-6.2	20.0
Hexachlorobutadiene	Ave	0.3447	0.3112		0.00903	0.0100	-9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-175604/8 Calibration Date: 04/08/2015 15:15

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7072.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.798	1.712		0.00952	0.0100	-4.8	20.0
1,2,3-Trichlorobenzene	Ave	0.7434	0.6967		0.00937	0.0100	-6.3	20.0
Dibromofluoromethane (Surr)	Ave	0.1999	0.1881		0.0107	0.0114	-5.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2198	0.2021		0.0105	0.0114	-8.0	20.0
Toluene-d8 (Surr)	Ave	1.194	1.143		0.0109	0.0114	-4.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4286	0.4226		0.0112	0.0114	-1.4	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7072.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Apr-2015 15:15:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-008
Operator ID: 1904 Instrument ID: A3UX16
Sublist:

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:44 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: quayler Date: 09-Apr-2015 07:45:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1626133	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	85	1148226	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	91	645335	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	348732	11.4	10.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	374638	11.4	10.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1496494	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	553203	11.4	11.2	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	219462	10.0	7.32	
10 Chloromethane	50	1.769	1.769	0.000	99	353914	10.0	8.58	
11 Vinyl chloride	62	1.888	1.888	0.000	97	388595	10.0	8.58	
12 Butadiene	54	1.935	1.923	0.012	0	354041	10.0	8.68	
13 Bromomethane	94	2.232	2.220	0.012	89	179293	10.0	8.21	
14 Chloroethane	64	2.326	2.327	-0.001	99	236140	10.0	8.88	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	547561	10.0	9.21	
16 Trichlorofluoromethane	101	2.575	2.564	0.011	96	387453	10.0	9.81	
17 Ethyl ether	59	2.836	2.837	0.000	89	299692	10.0	10.2	
18 Acrolein	56	2.943	2.943	0.000	99	190208	50.0	50.2	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	340995	10.0	10.4	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	91	263688	10.0	10.3	
21 Acetone	43	3.085	3.086	-0.001	77	190279	20.0	19.4	
23 Iodomethane	142	3.192	3.192	0.000	96	556646	10.0	10.8	
24 Carbon disulfide	76	3.263	3.263	0.000	98	1090420	10.0	10.8	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	94	209832	10.0	9.37	
27 Methyl acetate	43	3.394	3.394	0.000	97	1117288	50.0	51.6	
28 Methylene Chloride	84	3.489	3.489	-0.001	88	420371	10.0	10.5	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	100	200690	100.0	96.4	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1116240	100.0	99.3	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	69	393547	10.0	9.97	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	985741	10.0	10.2	
33 Hexane	86	3.987	3.999	-0.012	90	109051	10.0	11.5	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	676066	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	192322	10.0	7.06	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	425325	10.0	10.1	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	56	246703	20.0	20.2	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	87	403410	10.0	9.76	
45 Chlorobromomethane	128	4.805	4.805	0.000	90	197133	10.0	9.98	
46 Tetrahydrofuran	42	4.852	4.852	0.000	90	145562	20.0	18.7	
47 Chloroform	83	4.864	4.864	0.000	92	631169	10.0	9.99	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	488431	10.0	10.2	
49 Cyclohexane	56	5.113	5.113	0.000	87	611662	10.0	10.3	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	99	521061	10.0	10.7	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	408136	10.0	10.3	
52 Isobutyl alcohol	41	5.232	5.232	0.000	91	160836	250.0	222.6	
54 Benzene	78	5.362	5.362	0.000	94	1615127	10.0	9.91	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	439984	10.0	10.0	
56 n-Heptane	57	5.587	5.588	-0.001	86	281735	10.0	9.94	
58 Trichloroethene	130	5.908	5.908	0.000	96	420376	10.0	10.2	
60 Methylcyclohexane	83	6.086	6.086	0.000	89	630828	10.0	10.0	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	78	365714	10.0	9.92	
63 Dibromomethane	93	6.192	6.192	0.000	93	197018	10.0	10.1	
64 1,4-Dioxane	88	6.204	6.204	0.000	40	52272	200.0	193.4	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	446530	10.0	9.86	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	230600	12.0	11.9	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	550863	10.0	10.3	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	94	478138	20.0	19.8	
70 Toluene	91	7.022	7.023	-0.001	98	1696373	10.0	9.98	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	91	473524	10.0	11.0	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	88	359956	10.0	10.3	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	90	293880	10.0	9.64	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	88	526514	10.0	9.74	
75 Tetrachloroethene	164	7.532	7.532	0.000	96	331143	10.0	10.3	
76 2-Hexanone	43	7.580	7.580	0.000	94	325027	20.0	19.6	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	312912	10.0	10.0	
80 Ethylene Dibromide	107	7.852	7.853	-0.001	98	290083	10.0	10.0	
82 Chlorobenzene	112	8.303	8.303	0.000	96	1063221	10.0	9.76	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	341952	10.0	9.86	
84 Ethylbenzene	106	8.398	8.398	0.000	98	583070	10.0	10.0	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	727593	10.0	9.97	
86 o-Xylene	106	8.884	8.884	0.000	95	709148	10.0	10.1	
87 Styrene	104	8.896	8.896	0.000	92	1046242	10.0	9.26	
88 Bromoform	173	9.074	9.074	0.000	98	186547	10.0	9.80	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	1832423	10.0	9.82	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	362253	10.0	9.57	
93 Bromobenzene	156	9.536	9.537	-0.001	92	463862	10.0	9.94	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	114002	10.0	9.69	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	73	91916	10.0	9.93	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	505635	10.0	9.90	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	426463	10.0	9.67	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	1529277	10.0	9.88	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	452678	10.0	9.65	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	1320794	10.0	9.79	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	1545055	10.0	9.55	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	1856905	10.0	9.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	97	888328	10.0	9.73	
107 4-Isopropyltoluene	119	10.473	10.485	-0.012	97	1617728	10.0	9.53	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	95	892728	10.0	9.55	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	1361343	10.0	9.61	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	99	837874	10.0	9.70	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	89	62663	10.0	9.88	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	94	503026	10.0	9.38	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	200844	10.0	9.03	
117 Naphthalene	128	12.750	12.750	0.000	96	1104641	10.0	9.52	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	449585	10.0	9.37	
S 133 Xylenes, Total	106				0		20.0	20.0	
S 134 Trihalomethanes, Total	1				0		40.0	39.7	

Reagents:

VM50IS_00048	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00065	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added:	0.00	Units:	Run Reagent
VMFASPW_00093	Amount Added:	8.00	Units: uL	
VMFASGW_00089	Amount Added:	8.00	Units: uL	
VMFASAW_00077	Amount Added:	8.00	Units: uL	

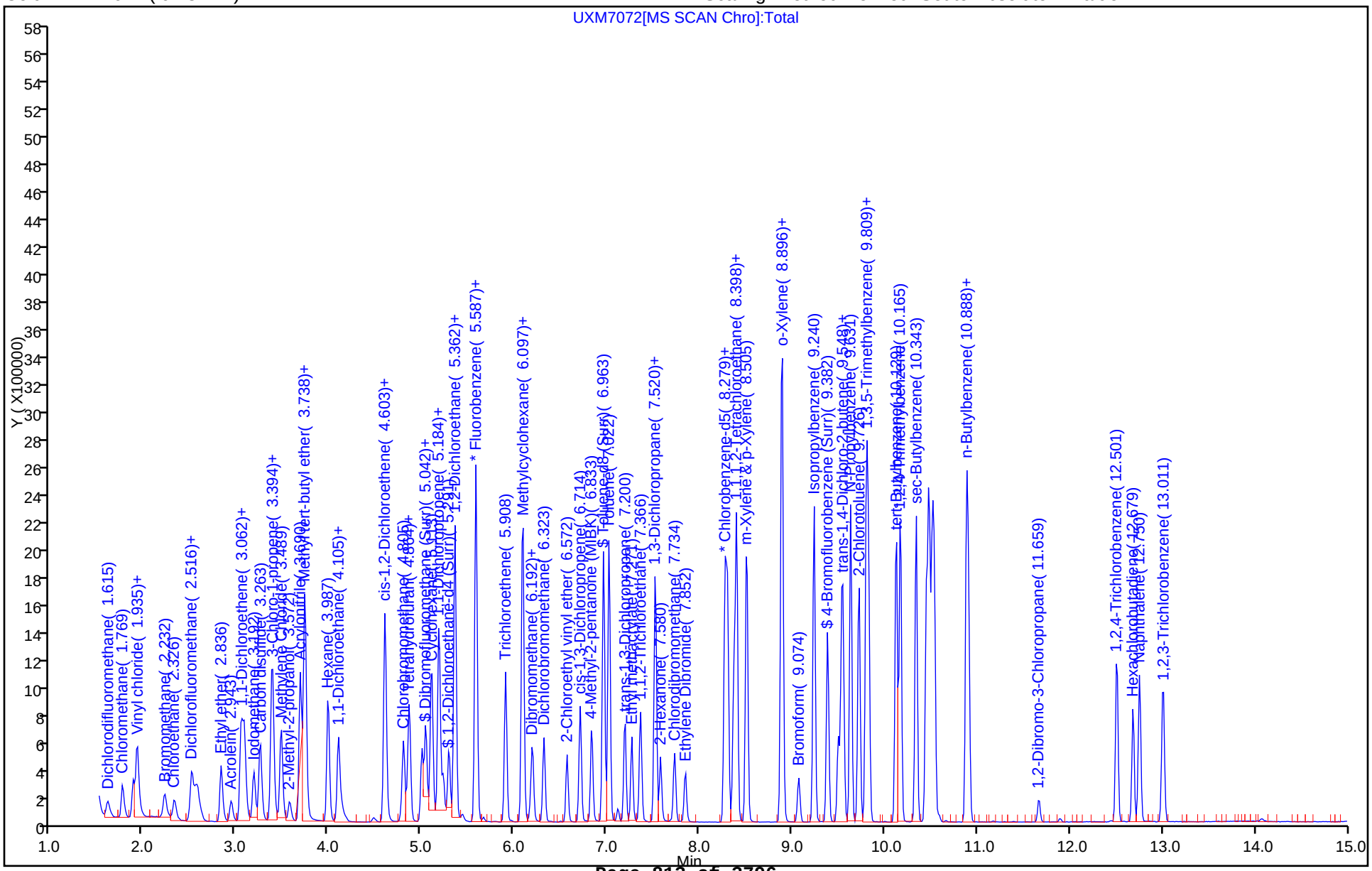
Report Date: 09-Apr-2015 07:46:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7072.D

Injection Date:	08-Apr-2015 15:15:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	ICV			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176298/2 Calibration Date: 04/14/2015 08:07

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7134.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1843	0.2351	0.1000	0.0128	0.0100	27.6*	20.0
Chloromethane	Ave	0.2536	0.2776	0.1000	0.0109	0.0100	9.4	20.0
Vinyl chloride	Ave	0.2786	0.2976	0.1000	0.0107	0.0100	6.8	20.0
Bromomethane	Ave	0.1343	0.1532	0.0500	0.0114	0.0100	14.0	20.0
Chloroethane	Ave	0.1634	0.1726	0.0500	0.0106	0.0100	5.6	20.0
Dichlorofluoromethane	Ave	0.3657	0.3782		0.0103	0.0100	3.4	20.0
Trichlorofluoromethane	Ave	0.2428	0.2756	0.1000	0.0114	0.0100	13.5	20.0
Ethyl ether	Ave	0.1803	0.1809		0.0100	0.0100	0.3	20.0
Acrolein	Ave	0.0233	0.0216		0.0464	0.0500	-7.2	20.0
1,1-Dichloroethene	Ave	0.2023	0.2046	0.1000	0.0101	0.0100	1.1	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1572	0.1718	0.0500	0.0109	0.0100	9.3	20.0
Acetone	Ave	0.0604	0.0624	0.0500	0.0207	0.0200	3.3	20.0
Iodomethane	Ave	0.3182	0.3242		0.0102	0.0100	1.9	20.0
Carbon disulfide	Ave	0.6221	0.6050	0.1000	0.00972	0.0100	-2.8	20.0
3-Chloro-1-propene	Ave	0.1377	0.1404		0.0102	0.0100	1.9	20.0
Methyl acetate	Ave	0.1332	0.1374	0.1000	0.0516	0.0500	3.1	20.0
Methylene Chloride	Lin1		0.2459	0.1000	0.00994	0.0100	-0.6	20.0
2-Methyl-2-propanol	Ave	0.0128	0.0134		0.104	0.100	4.3	20.0
Acrylonitrile	Ave	0.0691	0.0718		0.104	0.100	3.8	20.0
Methyl tert-butyl ether	Ave	0.5917	0.6284	0.1000	0.0106	0.0100	6.2	20.0
trans-1,2-Dichloroethene	Ave	0.2427	0.2450	0.1000	0.0101	0.0100	0.9	20.0
Hexane	Ave	0.0585	0.0631		0.0108	0.0100	7.7	20.0
1,1-Dichloroethane	Ave	0.3969	0.4220	0.1000	0.0106	0.0100	6.3	20.0
Vinyl acetate	Ave	0.1675	0.1753		0.0100	0.00960	4.7	20.0
2-Butanone (MEK)	Ave	0.0752	0.0832	0.0500	0.0221	0.0200	10.7	20.0
cis-1,2-Dichloroethene	Ave	0.2590	0.2617	0.1000	0.0101	0.0100	1.0	20.0
2,2-Dichloropropane	Ave	0.2543	0.2703		0.0106	0.0100	6.3	20.0
Bromochloromethane	Ave	0.1215	0.1286		0.0106	0.0100	5.8	20.0
Chloroform	Ave	0.3887	0.3942	0.2000	0.0101	0.0100	1.4	20.0
1,1,1-Trichloroethane	Ave	0.2957	0.3174	0.1000	0.0107	0.0100	7.3	20.0
Cyclohexane	Ave	0.3656	0.3870	0.1000	0.0106	0.0100	5.8	20.0
1,1-Dichloropropene	Ave	0.2996	0.3089		0.0103	0.0100	3.1	20.0
Carbon tetrachloride	Ave	0.2428	0.2719	0.1000	0.0112	0.0100	12.0	20.0
Isobutyl alcohol	Ave	0.0044	0.0047		0.265	0.250	5.9	20.0
1,2-Dichloroethane	Ave	0.2704	0.2899	0.1000	0.0107	0.0100	7.2	20.0
Benzene	Ave	1.002	0.996	0.5000	0.00994	0.0100	-0.6	20.0
Trichloroethene	Ave	0.2546	0.2715	0.2000	0.0107	0.0100	6.6	20.0
Methylcyclohexane	Ave	0.3877	0.4029	0.1000	0.0104	0.0100	3.9	20.0
1,2-Dichloropropane	Ave	0.2267	0.2329	0.1000	0.0103	0.0100	2.7	20.0
1,4-Dioxane	Ave	0.0017	0.0019		0.229	0.200	14.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176298/2 Calibration Date: 04/14/2015 08:07

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7134.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromomethane	Ave	0.1203	0.1256		0.0104	0.0100	4.4	20.0
Bromodichloromethane	Ave	0.2785	0.2935	0.1000	0.0105	0.0100	5.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1194	0.1217		0.0204	0.0200	2.0	20.0
cis-1,3-Dichloropropene	Ave	0.3280	0.3420	0.1500	0.0104	0.0100	4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1486	0.1586	0.0500	0.0214	0.0200	6.8	20.0
Toluene	Ave	1.481	1.476	0.4000	0.00997	0.0100	-0.3	20.0
trans-1,3-Dichloropropene	Ave	0.3760	0.3912	0.1000	0.0104	0.0100	4.0	20.0
Ethyl methacrylate	Ave	0.3039	0.3139		0.0103	0.0100	3.3	20.0
1,1,2-Trichloroethane	Ave	0.2656	0.2686	0.1000	0.0101	0.0100	1.1	20.0
1,3-Dichloropropane	Ave	0.4708	0.4849		0.0103	0.0100	3.0	20.0
Tetrachloroethene	Ave	0.2804	0.2908	0.2000	0.0104	0.0100	3.7	20.0
2-Hexanone	Ave	0.1447	0.1552	0.0500	0.0215	0.0200	7.3	20.0
Dibromochloromethane	Ave	0.2720	0.2894		0.0106	0.0100	6.4	20.0
1,2-Dibromoethane	Ave	0.2521	0.2613		0.0104	0.0100	3.6	20.0
Chlorobenzene	Ave	0.9491	0.9610	0.3000	0.0101	0.0100	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3021	0.3204		0.0106	0.0100	6.0	20.0
Ethylbenzene	Ave	0.5076	0.5163		0.0102	0.0100	1.7	20.0
m-Xylene & p-Xylene	Ave	0.6356	0.6536		0.0103	0.0100	2.8	20.0
o-Xylene	Ave	0.6141	0.6452		0.0105	0.0100	5.1	20.0
Styrene	Ave	0.9843	0.996	0.3000	0.0101	0.0100	1.2	20.0
Bromoform	Ave	0.1657	0.1768	0.1000	0.0107	0.0100	6.7	20.0
Isopropylbenzene	Ave	1.625	1.663	0.1000	0.0102	0.0100	2.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5868	0.5620	0.3000	0.00958	0.0100	-4.2	20.0
Bromobenzene	Ave	0.7228	0.6901		0.00955	0.0100	-4.5	20.0
1,2,3-Trichloropropane	Ave	0.1823	0.1773		0.00972	0.0100	-2.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1434	0.1334		0.00930	0.0100	-7.0	20.0
N-Propylbenzene	Ave	0.7916	0.7999		0.0101	0.0100	1.0	20.0
2-Chlorotoluene	Ave	0.6834	0.6773		0.00991	0.0100	-0.9	20.0
1,3,5-Trimethylbenzene	Ave	2.398	2.365		0.00986	0.0100	-1.4	20.0
4-Chlorotoluene	Ave	0.7270	0.7039		0.00968	0.0100	-3.2	20.0
tert-Butylbenzene	Ave	2.090	2.070		0.00991	0.0100	-0.9	20.0
1,2,4-Trimethylbenzene	Ave	2.508	2.439		0.00973	0.0100	-2.7	20.0
sec-Butylbenzene	Ave	3.014	2.938		0.00975	0.0100	-2.5	20.0
1,3-Dichlorobenzene	Ave	1.414	1.373	0.6000	0.00971	0.0100	-2.9	20.0
4-Isopropyltoluene	Ave	2.630	2.596		0.00987	0.0100	-1.3	20.0
1,4-Dichlorobenzene	Ave	1.449	1.414	0.5000	0.00976	0.0100	-2.4	20.0
n-Butylbenzene	Ave	2.195	2.129		0.00970	0.0100	-3.0	20.0
1,2-Dichlorobenzene	Ave	1.338	1.306	0.4000	0.00976	0.0100	-2.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0983	0.1008	0.0500	0.0103	0.0100	2.5	20.0
1,2,4-Trichlorobenzene	Ave	0.8313	0.7985	0.2000	0.00961	0.0100	-3.9	20.0
Hexachlorobutadiene	Ave	0.3447	0.3160		0.00917	0.0100	-8.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176298/2 Calibration Date: 04/14/2015 08:07

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7134.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.798	1.695		0.00943	0.0100	-5.7	20.0
1,2,3-Trichlorobenzene	Ave	0.7434	0.7137		0.00960	0.0100	-4.0	20.0
Dibromofluoromethane (Surr)	Ave	0.1999	0.2015		0.0115	0.0114	0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2198	0.2221		0.0115	0.0114	1.1	20.0
Toluene-d8 (Surr)	Ave	1.194	1.194		0.0114	0.0114	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4286	0.4261		0.0113	0.0114	-0.6	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7134.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Apr-2015 08:07:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-002
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:54 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: quayler Date: 14-Apr-2015 08:26:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	97	1564934	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	82	1124476	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	78	663043	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	60	359411	11.4	11.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	396199	11.4	11.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	91	1530212	11.4	11.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	546270	11.4	11.3	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	70	367978	10.0	12.8	
10 Chloromethane	50	1.769	1.769	0.000	88	434439	10.0	10.9	
11 Vinyl chloride	62	1.888	1.888	0.000	83	465755	10.0	10.7	
12 Butadiene	54	1.935	1.935	0.000	0	429108	10.0	10.9	
13 Bromomethane	94	2.232	2.232	0.000	87	239746	10.0	11.4	
14 Chloroethane	64	2.327	2.327	0.000	94	270136	10.0	10.6	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	82	591889	10.0	10.3	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	86	431319	10.0	11.4	
17 Ethyl ether	59	2.836	2.836	0.000	89	283101	10.0	10.0	
18 Acrolein	56	2.943	2.943	0.000	89	169271	50.0	46.4	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	98	320122	10.0	10.1	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	83	268808	10.0	10.9	
21 Acetone	43	3.085	3.085	0.000	75	195337	20.0	20.7	
23 Iodomethane	142	3.192	3.192	0.000	96	507288	10.0	10.2	
24 Carbon disulfide	76	3.263	3.263	0.000	98	946788	10.0	9.72	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	69	219711	10.0	10.2	
27 Methyl acetate	43	3.394	3.394	0.000	96	1074744	50.0	51.6	
28 Methylene Chloride	84	3.489	3.489	0.000	77	384819	10.0	9.94	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	208876	100.0	104.3	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1123584	100.0	103.8	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	83	983461	10.0	10.6	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	63	383355	10.0	10.1	
33 Hexane	86	3.987	3.987	0.000	90	98704	10.0	10.8	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	85	660347	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	263297	9.60	10.0	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	56	260436	20.0	22.1	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	69	409555	10.0	10.1	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	79	422934	10.0	10.6	
45 Chlorobromomethane	128	4.805	4.805	0.000	91	201179	10.0	10.6	
46 Tetrahydrofuran	42	4.852	4.852	0.000	70	155100	20.0	20.7	
47 Chloroform	83	4.864	4.864	0.000	70	616852	10.0	10.1	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	88	496738	10.0	10.7	
49 Cyclohexane	56	5.101	5.101	0.000	87	605548	10.0	10.6	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	88	483404	10.0	10.3	
51 Carbon tetrachloride	117	5.196	5.196	0.000	70	425460	10.0	11.2	
52 Isobutyl alcohol	41	5.232	5.232	0.000	70	184018	250.0	264.7	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	50	453679	10.0	10.7	
54 Benzene	78	5.362	5.362	0.000	93	1558057	10.0	9.94	
56 n-Heptane	57	5.588	5.588	0.000	53	268865	10.0	9.85	
58 Trichloroethene	130	5.908	5.908	0.000	91	424874	10.0	10.7	
60 Methylcyclohexane	83	6.086	6.086	0.000	89	630555	10.0	10.4	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	78	364411	10.0	10.3	
63 Dibromomethane	93	6.192	6.192	0.000	88	196517	10.0	10.4	
64 1,4-Dioxane	88	6.192	6.192	0.000	30	59463	200.0	228.6	
65 Dichlorobromomethane	83	6.323	6.323	0.000	94	459228	10.0	10.5	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	90	381015	20.0	20.4	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	91	535185	10.0	10.4	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	93	496366	20.0	21.4	
70 Toluene	91	7.022	7.022	0.000	95	1659460	10.0	9.97	
71 trans-1,3-Dichloropropene	75	7.188	7.188	0.000	89	439895	10.0	10.4	
72 Ethyl methacrylate	69	7.272	7.272	0.000	68	352933	10.0	10.3	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	85	302005	10.0	10.1	
75 Tetrachloroethene	164	7.521	7.521	0.000	75	327014	10.0	10.4	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	87	545284	10.0	10.3	
76 2-Hexanone	43	7.580	7.580	0.000	66	349071	20.0	21.5	
78 Chlorodibromomethane	129	7.734	7.734	0.000	88	325463	10.0	10.6	
80 Ethylene Dibromide	107	7.841	7.841	0.000	99	293767	10.0	10.4	
82 Chlorobenzene	112	8.303	8.303	0.000	96	1080627	10.0	10.1	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	86	360267	10.0	10.6	
84 Ethylbenzene	106	8.398	8.398	0.000	98	580533	10.0	10.2	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	734934	10.0	10.3	
86 o-Xylene	106	8.884	8.884	0.000	91	725478	10.0	10.5	
87 Styrene	104	8.896	8.896	0.000	92	1120490	10.0	10.1	
88 Bromoform	173	9.074	9.074	0.000	97	198759	10.0	10.7	
89 Isopropylbenzene	105	9.240	9.240	0.000	94	1869859	10.0	10.2	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	88	372614	10.0	9.58	
93 Bromobenzene	156	9.536	9.536	0.000	88	457544	10.0	9.55	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	54	117563	10.0	9.72	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	60	88415	10.0	9.30	
96 N-Propylbenzene	120	9.631	9.631	0.000	83	530369	10.0	10.1	
97 2-Chlorotoluene	126	9.726	9.726	0.000	91	449055	10.0	9.91	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	91	1568271	10.0	9.86	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	466714	10.0	9.68	
102 tert-Butylbenzene	119	10.118	10.118	0.000	77	1372671	10.0	9.91	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	73	1617431	10.0	9.73	
105 sec-Butylbenzene	105	10.343	10.343	0.000	92	1947992	10.0	9.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	83	910399	10.0	9.71	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	92	1721084	10.0	9.87	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	92	937792	10.0	9.76	
111 n-Butylbenzene	91	10.888	10.888	0.000	96	1411302	10.0	9.70	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	97	865676	10.0	9.76	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	74	66836	10.0	10.3	
115 1,2,4-Trichlorobenzene	180	12.501	12.501	0.000	93	529425	10.0	9.61	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	90	209542	10.0	9.17	
117 Naphthalene	128	12.750	12.750	0.000	96	1124005	10.0	9.43	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	473184	10.0	9.60	
S 131 1,2-Dichloroethene, Total	96				0		20.0	20.2	
S 132 1,3-Dichloropropene, Total	75				0		20.0	20.8	
S 133 Xylenes, Total	106				0		20.0	20.8	
S 134 Trihalomethanes, Total	1				0		40.0	42.0	

Reagents:

VMAROLISTDW_00095	Amount Added:	8.00	Units: uL	
VMRPRIMW_00120	Amount Added:	8.00	Units: uL	
VMRGAS_00097	Amount Added:	8.00	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

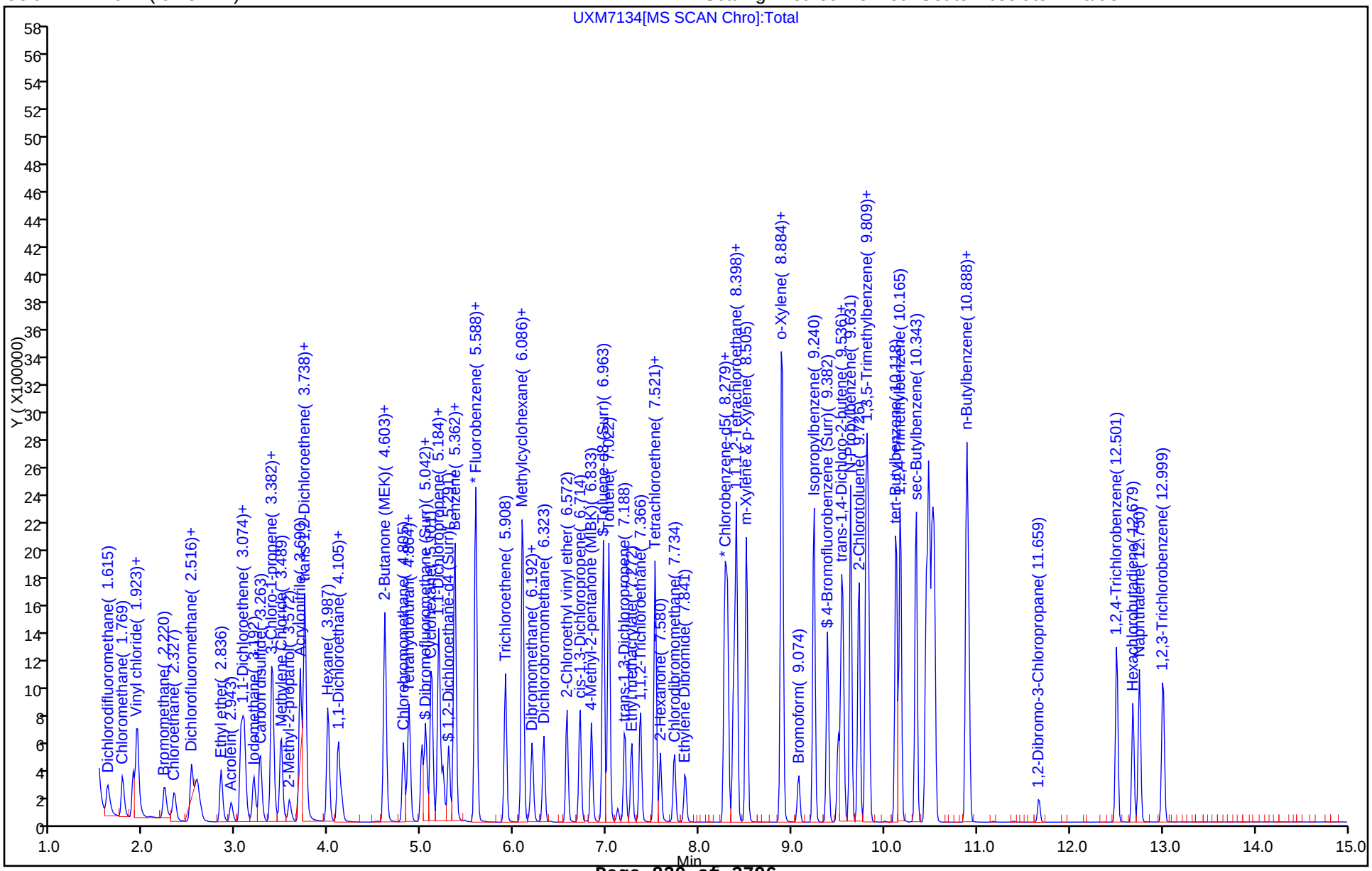
Report Date: 14-Apr-2015 13:40:55 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7134.D

Injection Date:	14-Apr-2015 08:07:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	CCVIS L4 8260			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\BFB2872.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 28-Feb-2015 12:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 mL Dil. Factor: 1.0000
Sample Info: 240-0040877-001
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Mar-2015 15:07:54 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.793	3.793	0.000	0	493389	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

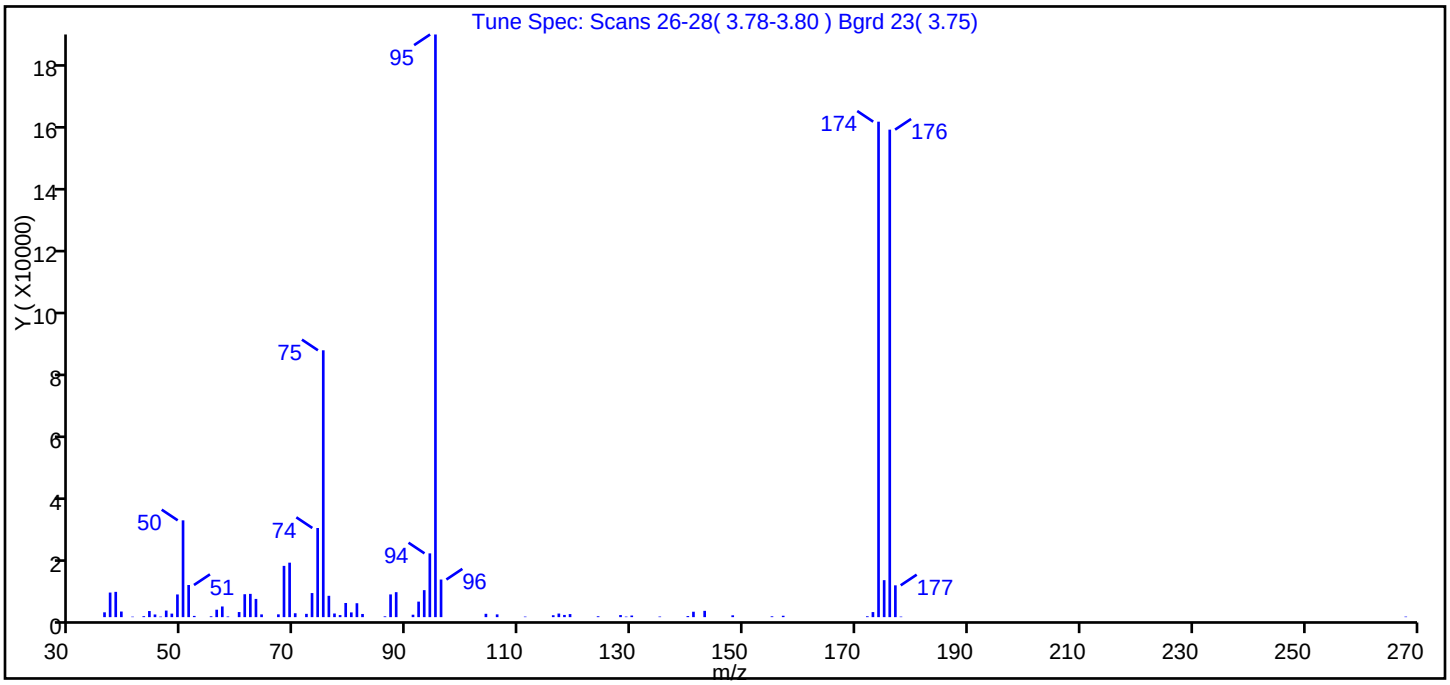
vmbfb_00013 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\BFB2872.D
Injection Date: 28-Feb-2015 12:17:30 Instrument ID: A3UX12
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 mL Dil. Factor: 1.0000
Method: 8260_12 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.6
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	85.0
175	5 to 9% of m/z 174	6.3 (7.5)
176	Greater than 95% but less than 101% of m/z 174	83.7 (98.4)
177	5 to 9% of m/z 176	5.5 (6.5)

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\BFB2872.D\8260_12.rslt\spectra.d
Injection Date: 28-Feb-2015 12:17:30
Spectrum: Tune Spec: Scans 26-28(3.78-3.80) Bgrd 23(3.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1512	60.00	1595	82.00	993	129.00	173
37.00	7706	61.00	7181	86.00	253	130.00	506
38.00	7923	62.00	7294	87.00	7123	135.00	191
39.00	1759	63.00	5710	88.00	7828	140.00	336
41.00	153	64.00	863	91.00	762	141.00	1697
43.00	302	67.00	881	92.00	4867	143.00	1973
44.00	1912	68.00	16068	93.00	8459	148.00	571
45.00	840	69.00	17072	94.00	19984	155.00	263
46.00	171	70.00	1215	95.00	182592	157.00	435
47.00	2059	72.00	1037	96.00	11789	172.00	272
48.00	1108	73.00	7548	104.00	1048	173.00	1589
49.00	7113	74.00	27936	106.00	864	174.00	155264
50.00	30336	75.00	83624	111.00	171	175.00	11589
51.00	10070	76.00	6688	116.00	598	176.00	152768
52.00	386	77.00	1139	117.00	1126	177.00	9967
55.00	278	78.00	648	118.00	691	178.00	167
56.00	2332	79.00	4436	119.00	958	268.00	168
57.00	3345	80.00	1485	124.00	274		
58.00	208	81.00	4362	128.00	658		

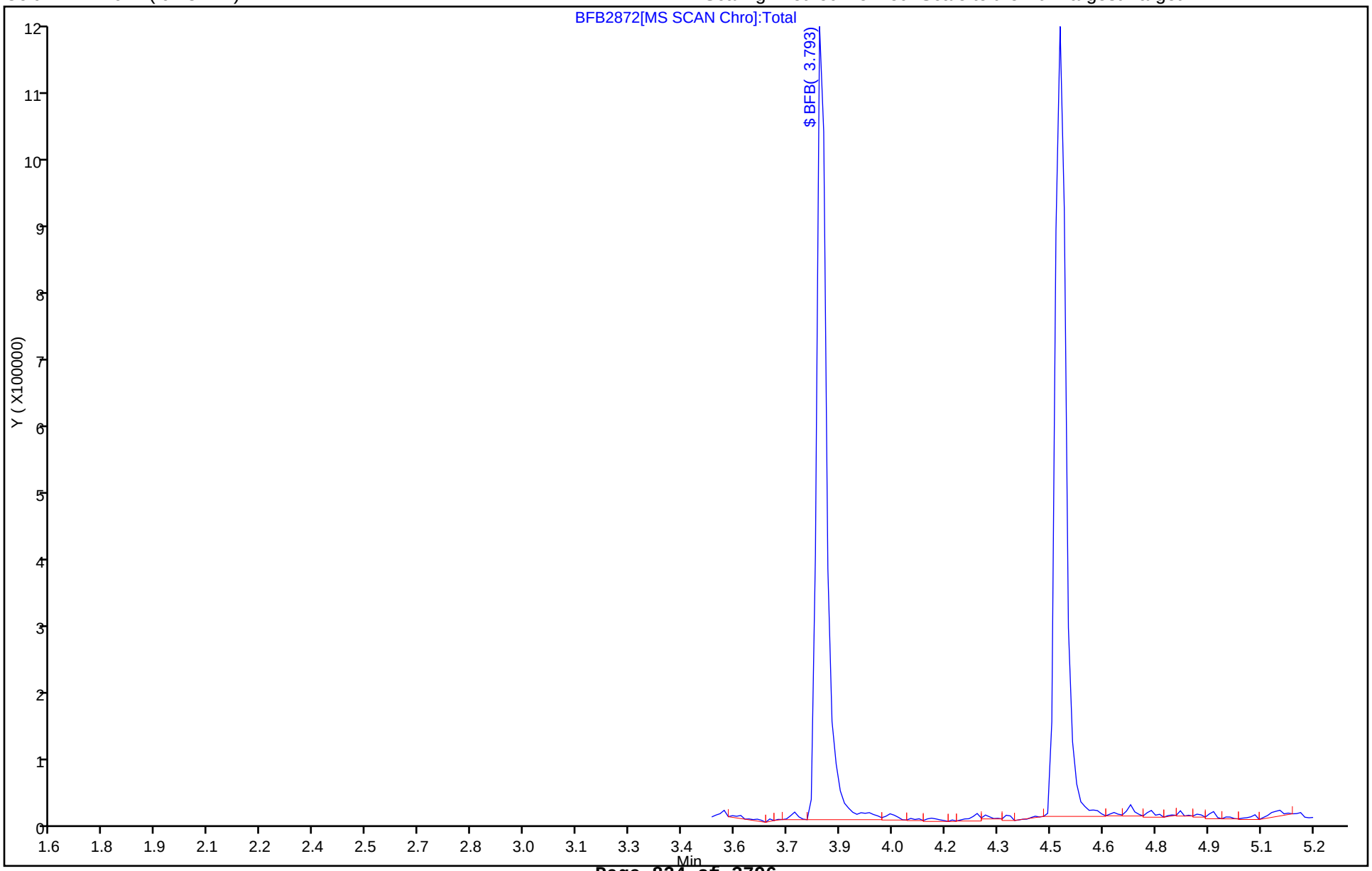
Report Date: 02-Mar-2015 15:07:54 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\BFB2872.D

Injection Date:	28-Feb-2015 12:17:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\BFB2920.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 21-Apr-2015 16:00:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-002
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 18:29:07 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 18:29:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.745	3.745	0.000	0	599648	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

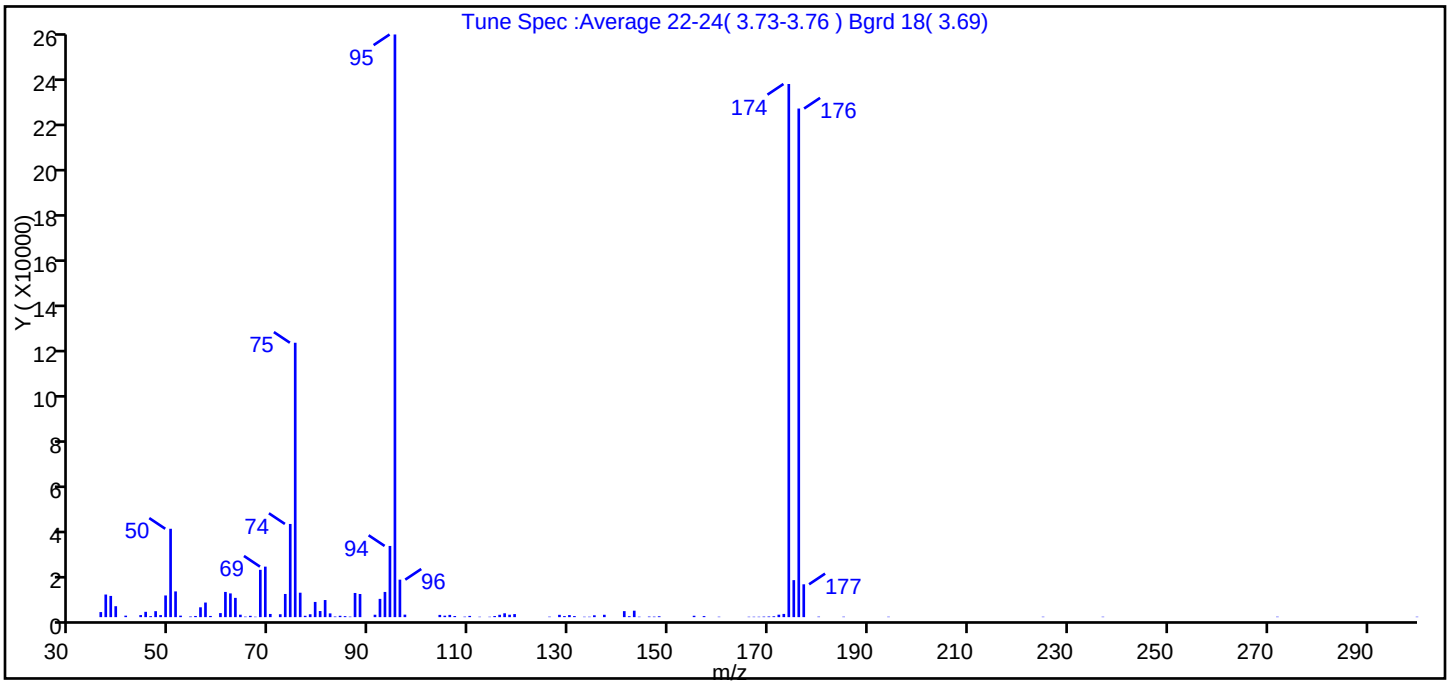
vmbfb_00013 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\BFB2920.D
Injection Date: 21-Apr-2015 16:00:30 Instrument ID: A3UX12
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 mL Dil. Factor: 1.0000
Method: 8260_12 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.2
75	30 to 60% of m/z 95	47.1
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.6 (0.6)
174	50 to 120% of m/z 95	91.5
175	5 to 9% of m/z 174	6.4 (6.9)
176	Greater than 95% but less than 101% of m/z 174	87.3 (95.4)
177	5 to 9% of m/z 176	5.6 (6.5)

Report Date: 21-Apr-2015 18:29:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\BFB2920.D\8260_12.rslt\spectra.d
Injection Date: 21-Apr-2015 16:00:30
Spectrum: Tune Spec :Average 22-24(3.73-3.76) Bgrd 18(3.69)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2184	68.00	20360	104.00	967	147.00	223
37.00	9734	69.00	21736	105.00	630	148.00	375
38.00	9134	70.00	1373	106.00	965	155.00	595
39.00	4707	72.00	1246	107.00	471	157.00	449
41.00	637	73.00	9972	109.00	208	160.00	183
44.00	893	74.00	40104	110.00	535	166.00	172
45.00	2292	75.00	118088	112.00	174	167.00	176
46.00	424	76.00	10517	114.00	170	168.00	178
47.00	2570	77.00	583	115.00	472	169.00	232
48.00	882	78.00	1237	116.00	1009	170.00	283
49.00	9332	79.00	6545	117.00	1661	171.00	373
50.00	38032	80.00	2627	118.00	1039	172.00	1059
51.00	11074	81.00	7361	119.00	1319	173.00	1386
52.00	652	82.00	1615	126.00	204	174.00	229440
54.00	280	83.00	273	128.00	996	175.00	15929
55.00	505	84.00	590	129.00	456	176.00	218880
56.00	4239	85.00	430	130.00	898	177.00	14135
57.00	6280	86.00	225	131.00	458	180.00	213
58.00	519	87.00	10406	133.00	177	185.00	185
60.00	1746	88.00	9962	134.00	179	194.00	169
61.00	10851	91.00	1040	135.00	795	225.00	171
62.00	10216	92.00	7863	137.00	1019	237.00	171
63.00	8290	93.00	10846	141.00	2586	272.00	181
64.00	1050	94.00	30640	142.00	389	300.00	170
65.00	226	95.00	250752	143.00	2776		
66.00	573	96.00	16134	144.00	189		
67.00	181	97.00	1079	146.00	251		

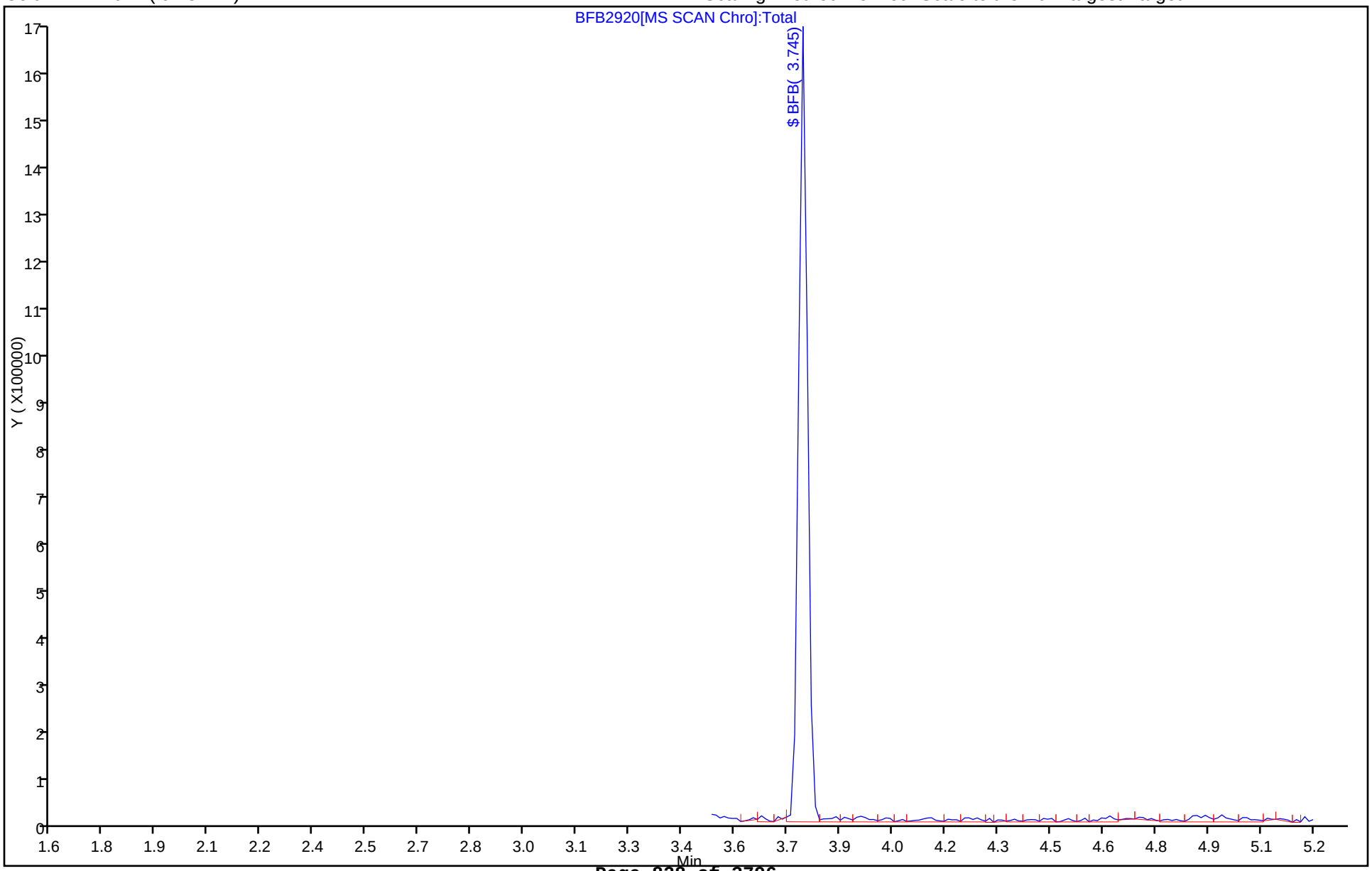
Report Date: 21-Apr-2015 18:29:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\BFB2920.D

Injection Date:	21-Apr-2015 16:00:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Apr-2015 12:22:30 ALS Bottle#: 11 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:35 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.774	3.775	-0.001	0	505669	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

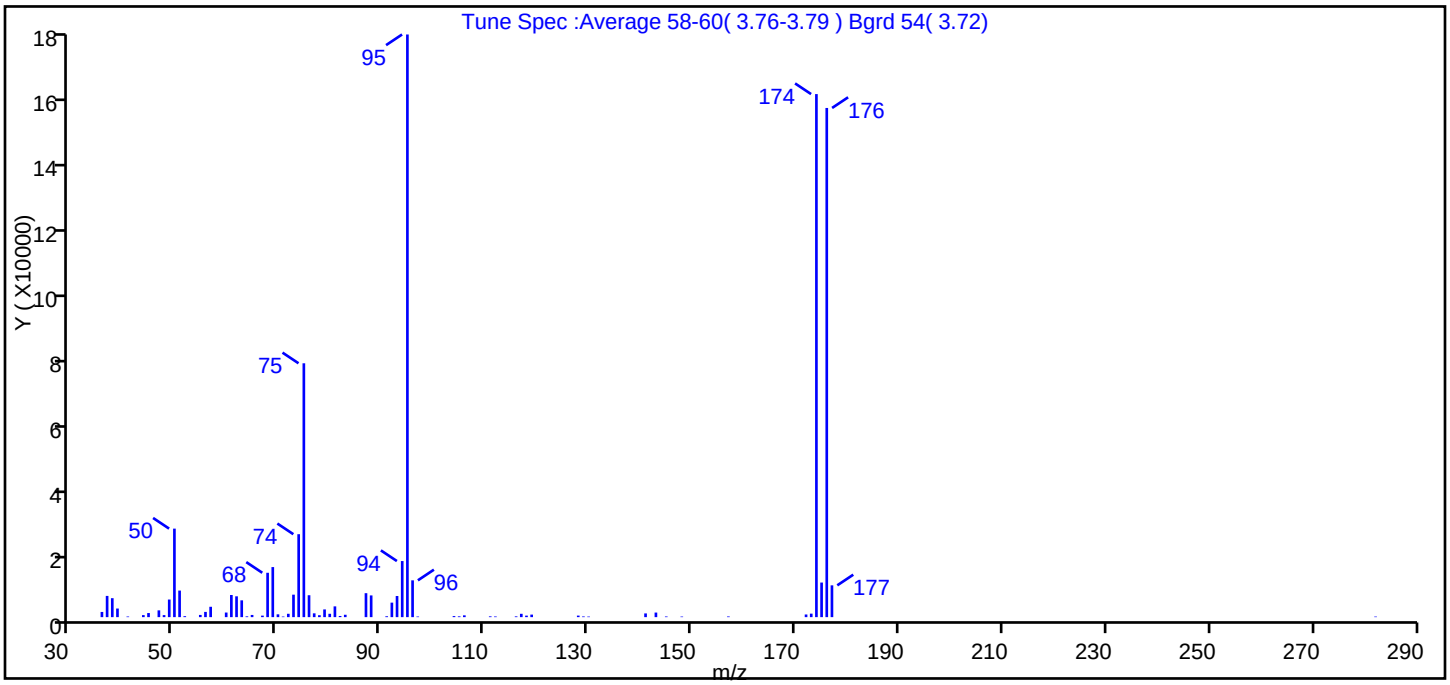
vmbfb_00013 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D
Injection Date: 08-Apr-2015 12:22:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.2
75	30 to 60% of m/z 95	43.6
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	89.8
175	5 to 9% of m/z 174	5.9 (6.6)
176	Greater than 95% but less than 101% of m/z 174	87.4 (97.3)
177	5 to 9% of m/z 176	5.5 (6.2)

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D\8260_16.rslt\spectra.d
Injection Date: 08-Apr-2015 12:22:30
Spectrum: Tune Spec :Average 58-60(3.76-3.79) Bgrd 54(3.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1535	62.00	6150	81.00	3181	117.00	987
37.00	6267	63.00	4963	82.00	341	118.00	450
38.00	5599	64.00	236	83.00	704	119.00	752
39.00	2544	65.00	647	87.00	7075	128.00	456
41.00	187	67.00	450	88.00	6414	129.00	203
44.00	600	68.00	13099	91.00	260	130.00	172
45.00	1210	69.00	14781	92.00	4283	141.00	1099
47.00	2002	70.00	831	93.00	6244	143.00	1354
48.00	603	71.00	174	94.00	16560	145.00	198
49.00	5200	72.00	995	95.00	172032	148.00	173
50.00	26136	73.00	6637	96.00	10866	157.00	200
51.00	7846	74.00	24488	97.00	183	172.00	787
52.00	284	75.00	74952	104.00	310	173.00	1034
55.00	652	76.00	6469	105.00	234	174.00	154432
56.00	1549	77.00	1125	106.00	530	175.00	10214
57.00	3060	78.00	570	111.00	234	176.00	150336
60.00	1361	79.00	2281	112.00	196	177.00	9390
61.00	6538	80.00	991	116.00	229	282.00	168

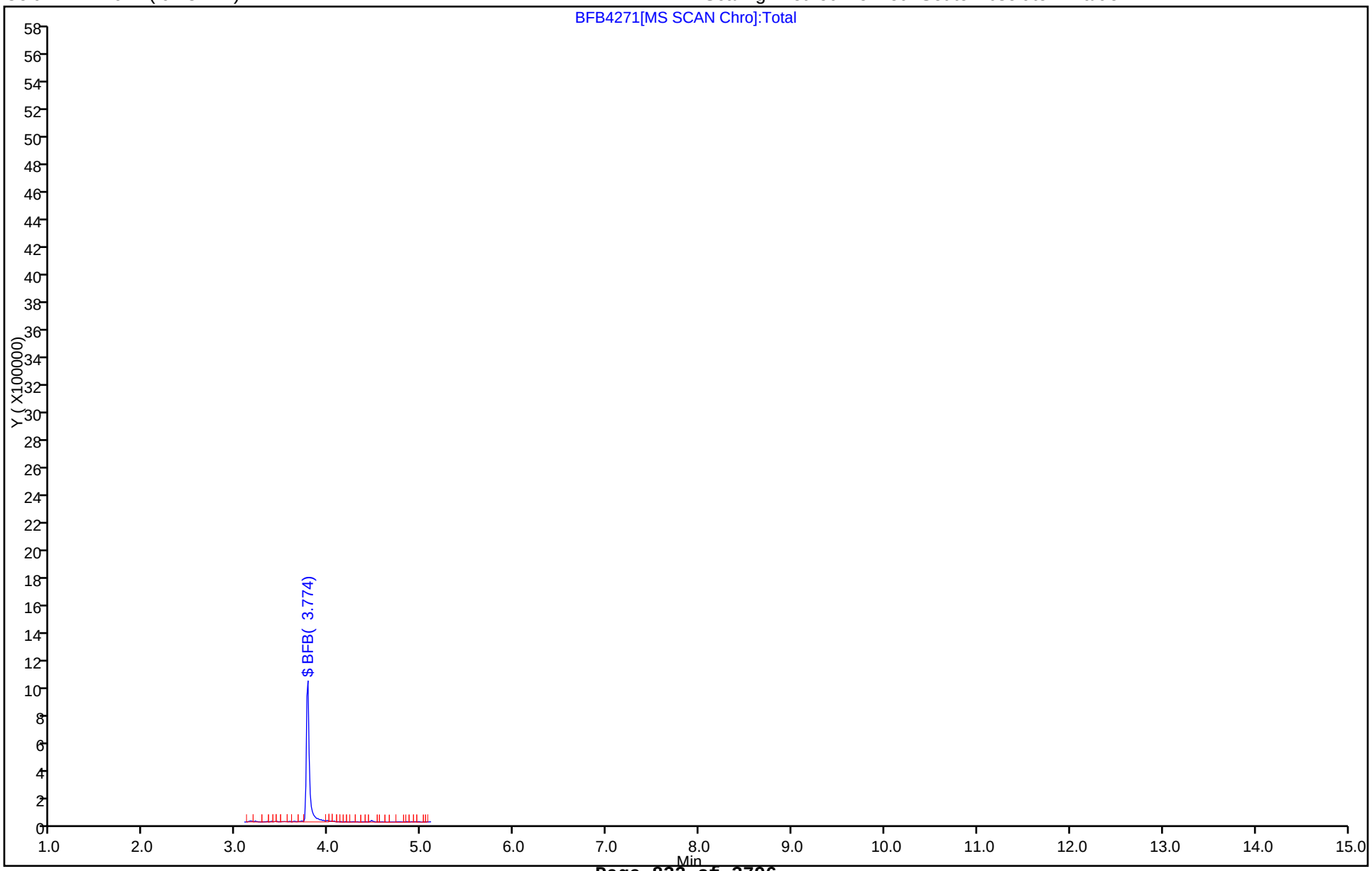
Report Date: 09-Apr-2015 07:46:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D

Injection Date:	08-Apr-2015 12:22:30	Instrument ID:	A3UX16	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\BFB4274.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Apr-2015 07:39:30 ALS Bottle#: 24 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-001
Operator ID: Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:52 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.763	3.775	-0.012	0	538556	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

vmbfb_00013 Amount Added: 1.00 Units: uL

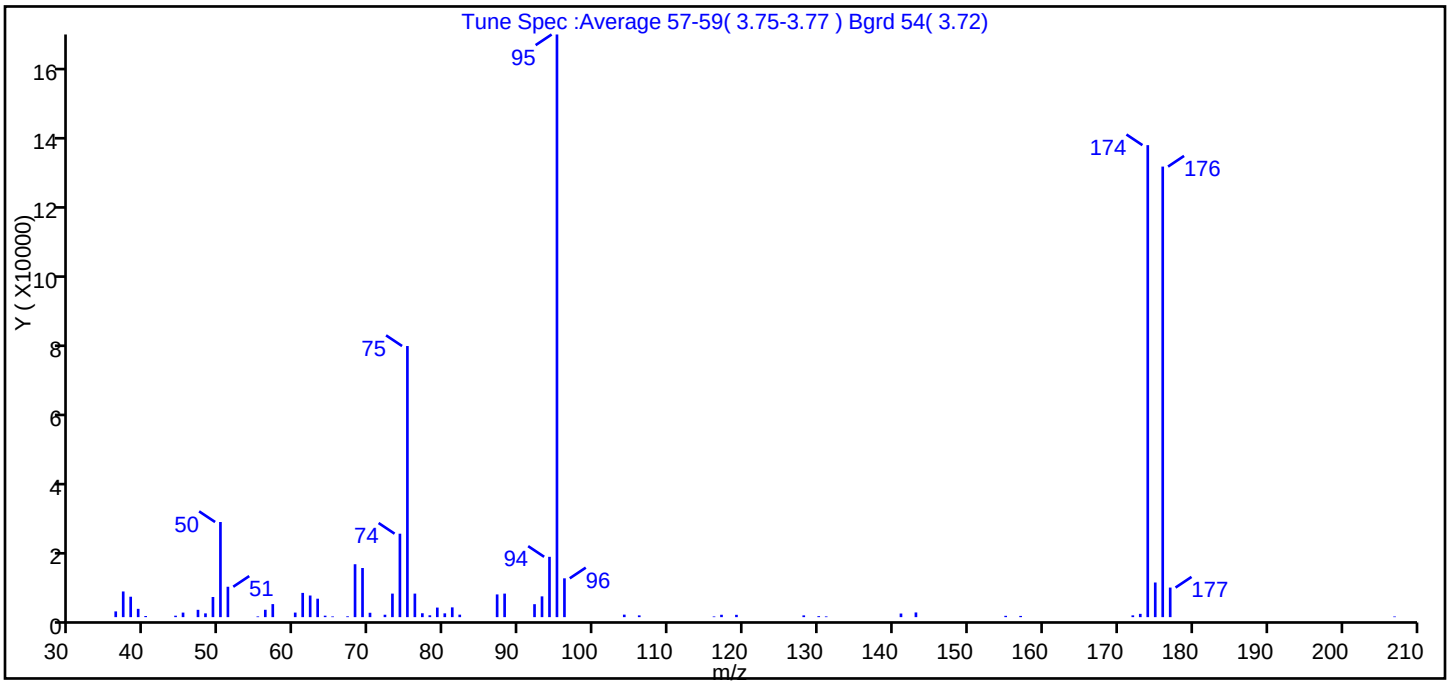
Report Date: 14-Apr-2015 13:40:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\BFB4274.D
Injection Date: 14-Apr-2015 07:39:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 24 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.3
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	81.0
175	5 to 9% of m/z 174	5.9 (7.3)
176	Greater than 95% but less than 101% of m/z 174	77.3 (95.5)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\BFB4274.D\8260_16.rslt\spectra.d
Injection Date: 14-Apr-2015 07:39:30
Spectrum: Tune Spec :Average 57-59(3.75-3.77) Bgrd 54(3.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1661	61.00	6998	79.00	2761	128.00	509
37.00	7410	62.00	6240	80.00	1095	130.00	284
38.00	5892	63.00	5322	81.00	2819	131.00	212
39.00	2395	64.00	423	82.00	717	141.00	1044
40.00	327	65.00	204	87.00	6556	143.00	1356
44.00	417	67.00	241	88.00	6791	155.00	381
45.00	1313	68.00	15268	92.00	3739	157.00	353
47.00	2113	69.00	14178	93.00	5995	172.00	515
48.00	1088	70.00	1264	94.00	17408	173.00	948
49.00	5814	72.00	697	95.00	168128	174.00	136192
50.00	27448	73.00	6793	96.00	11204	175.00	9997
51.00	8771	74.00	24080	104.00	725	176.00	130008
55.00	207	75.00	78232	106.00	507	177.00	8535
56.00	2127	76.00	6793	116.00	199	207.00	189
57.00	3762	77.00	1124	117.00	687		
60.00	1315	78.00	538	119.00	671		

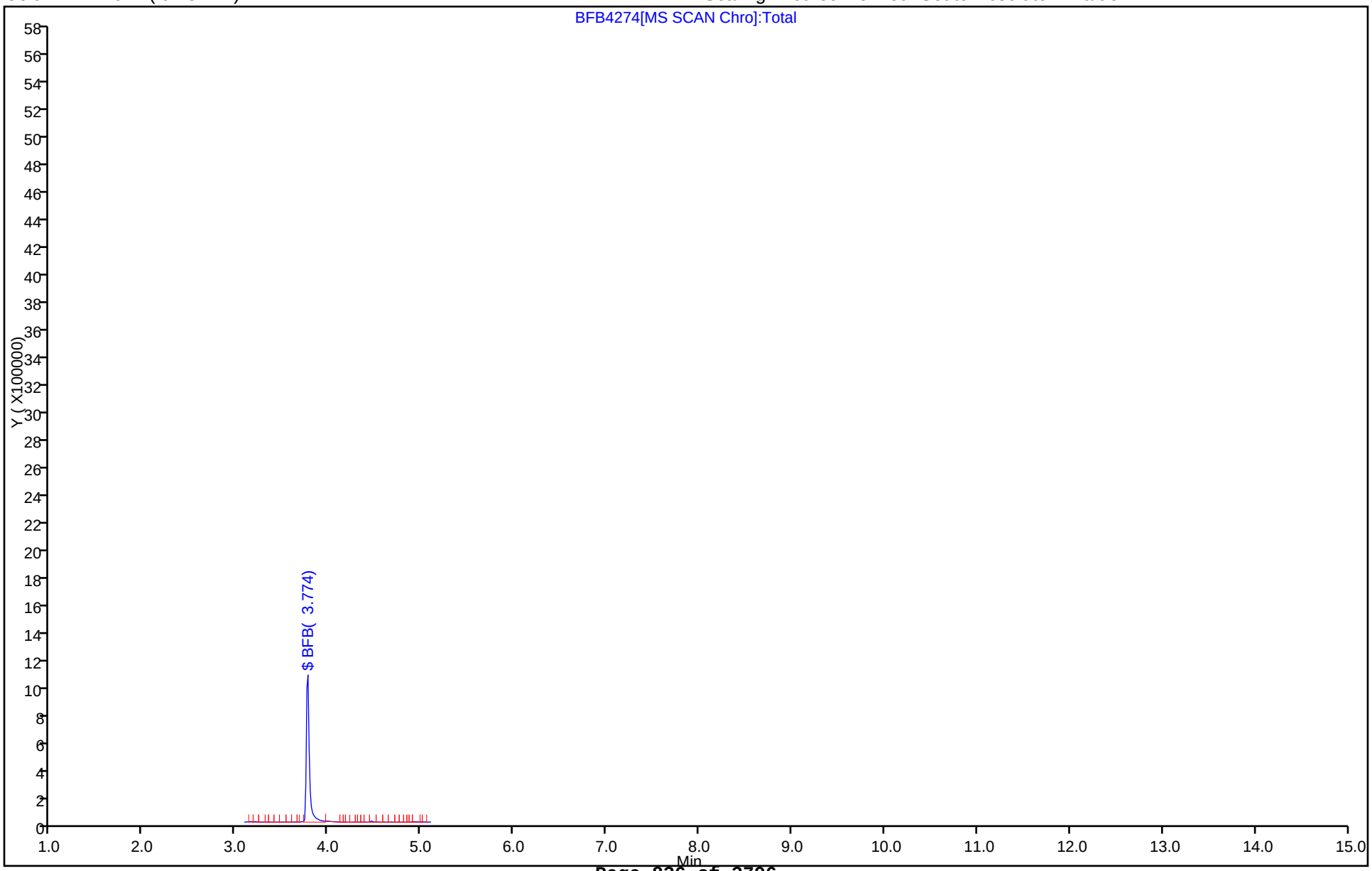
Report Date: 14-Apr-2015 13:40:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\BFB4274.D

Injection Date:	14-Apr-2015 07:39:30	Instrument ID:	A3UX16	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176298/6

Matrix: Water | Lab File ID: UXM7138.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/14/2015 09:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 176298 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	1.0	U	1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	2.0	U	10	2.0	0.53
591-78-6	2-Hexanone	2.0	U	10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	10	2.0	0.99
67-64-1	Acetone	2.0	U	10	2.0	0.94
71-43-2	Benzene	1.0	U	1.0	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	1.0	0.46
124-48-1	Dibromochloromethane	1.0	U	1.0	1.0	0.43
75-27-4	Bromodichloromethane	1.0	U	1.0	1.0	0.29
100-41-4	Ethylbenzene	1.0	U	1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	0.50	U	1.0	0.50	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	1.0	0.33
100-42-5	Styrene	0.50	U	1.0	0.50	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	1.0	0.22
75-01-4	Vinyl chloride	1.0	U	1.0	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	2.0	0.52
67-66-3	Chloroform	1.0	U	1.0	1.0	0.25
74-97-5	Bromochloromethane	1.0	U	1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	1.0	U	1.0	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-176298/6

Matrix: Water Lab File ID: UXM7138.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2015 09:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176298 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-120
460-00-4	4-Bromofluorobenzene (Surr)	95		75-120
1868-53-7	Dibromofluoromethane (Surr)	95		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7138.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Apr-2015 09:38:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-006
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:55 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: quayler Date: 14-Apr-2015 10:15:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1520465	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	84	1113789	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	583965	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	330707	11.4	10.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	379017	11.4	11.3	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1442564	11.4	10.8	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	519536	11.4	10.9	
9 Dichlorodifluoromethane	85		1.615					ND	
10 Chloromethane	50		1.769					ND	
11 Vinyl chloride	62		1.888					ND	
12 Butadiene	54		1.935					ND	
13 Bromomethane	94		2.232					ND	
14 Chloroethane	64		2.327					ND	
15 Dichlorofluoromethane	67		2.516					ND	
16 Trichlorofluoromethane	101		2.576					ND	
17 Ethyl ether	59		2.836					ND	
18 Acrolein	56		2.943					ND	
19 1,1-Dichloroethene	96		3.050					ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.085					ND	
21 Acetone	43	3.085	3.085	0.000	98	6879		0.7486	
22 Methylal	45		3.109					ND	
23 Iodomethane	142		3.192					ND	
24 Carbon disulfide	76		3.263					ND	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76		3.382					ND	
27 Methyl acetate	43		3.394					ND	
28 Methylene Chloride	84		3.489					ND	
29 2-Methyl-2-propanol	59		3.572					ND	
30 Acrylonitrile	53		3.690					ND	
31 Methyl tert-butyl ether	73		3.738					ND	
32 trans-1,2-Dichloroethene	96		3.738					ND	
33 Hexane	86		3.987					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63		4.105					ND	
35 Vinyl acetate	43		4.141					ND	
36 Isopropyl ether	87		4.165					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
40 2-Butanone (MEK)	43		4.603					ND	
39 cis-1,2-Dichloroethene	96		4.603					ND	
41 2,2-Dichloropropane	77		4.610					ND	
42 Propionitrile	54		4.651					ND	
43 Ethyl acetate	43		4.651					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128		4.805					ND	
46 Tetrahydrofuran	42		4.852					ND	
47 Chloroform	83		4.864					ND	
48 1,1,1-Trichloroethane	97		5.042					ND	
49 Cyclohexane	56		5.101					ND	
50 1,1-Dichloropropene	75		5.184					ND	
51 Carbon tetrachloride	117		5.196					ND	
52 Isobutyl alcohol	41		5.232					ND	
53 1,2-Dichloroethane	62		5.362					ND	
54 Benzene	78		5.362					ND	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57		5.588					ND	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130		5.908					ND	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83		6.086					ND	
61 1,2-Dichloropropane	63		6.098					ND	
62 Methyl methacrylate	41		6.169					ND	
63 Dibromomethane	93		6.192					ND	
64 1,4-Dioxane	88		6.192					ND	
65 Dichlorobromomethane	83		6.323					ND	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63		6.572					ND	
68 cis-1,3-Dichloropropene	75		6.714					ND	
69 4-Methyl-2-pentanone (MIBK	43		6.833					ND	
70 Toluene	91		7.022					ND	
71 trans-1,3-Dichloropropene	75		7.188					ND	
72 Ethyl methacrylate	69		7.272					ND	
73 1,1,2-Trichloroethane	97		7.366					ND	
75 Tetrachloroethene	164		7.521					ND	
74 1,3-Dichloropropane	76		7.521					ND	
76 2-Hexanone	43		7.580					ND	
77 n-Butyl acetate	43		7.698					ND	
79 Tetrahydrothiophene	60		7.734					ND	
78 Chlorodibromomethane	129		7.734					ND	
80 Ethylene Dibromide	107		7.841					ND	
81 1-Chlorohexane	91		8.268					ND	
82 Chlorobenzene	112		8.303					ND	
83 1,1,1,2-Tetrachloroethane	131		8.374					ND	
84 Ethylbenzene	106		8.398					ND	
85 m-Xylene & p-Xylene	106		8.505					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 o-Xylene	106		8.884					ND	
87 Styrene	104		8.896					ND	
88 Bromoform	173		9.074					ND	
89 Isopropylbenzene	105		9.240					ND	
90 1,4-Dichlorobutane	55		9.323					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83		9.501					ND	
93 Bromobenzene	156		9.536					ND	
95 1,2,3-Trichloropropane	110		9.548					ND	
94 trans-1,4-Dichloro-2-buten	53		9.560					ND	
96 N-Propylbenzene	120		9.631					ND	
97 2-Chlorotoluene	126		9.726					ND	
98 3-Ethyltoluene	105		9.733					ND	
99 1,3,5-Trimethylbenzene	105		9.797					ND	
100 4-Chlorotoluene	126		9.821					ND	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119		10.118					ND	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105		10.165					ND	
105 sec-Butylbenzene	105		10.343					ND	
106 1,3-Dichlorobenzene	146		10.450					ND	
107 4-Isopropyltoluene	119		10.473					ND	
108 1,4-Dichlorobenzene	146		10.533					ND	
109 1,2,3-Trimethylbenzene	105		10.580					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91		10.888					ND	
112 1,2-Dichlorobenzene	146		10.900					ND	
113 1,2-Dibromo-3-Chloropropan	157		11.671					ND	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180		12.501					ND	
116 Hexachlorobutadiene	225		12.679					ND	
117 Naphthalene	128		12.750					ND	
118 1,2,3-Trichlorobenzene	180		13.011					ND	
119 2-Methylnaphthalene	142		14.066					ND	
129 Isobutylene TIC	1		0.000					ND	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96		1.140					ND	
S 132 1,3-Dichloropropene, Total	75		6.760					ND	
S 133 Xylenes, Total	106		16.530					ND	
S 134 Trihalomethanes, Total	1		0.000					ND	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

Reagents:

VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

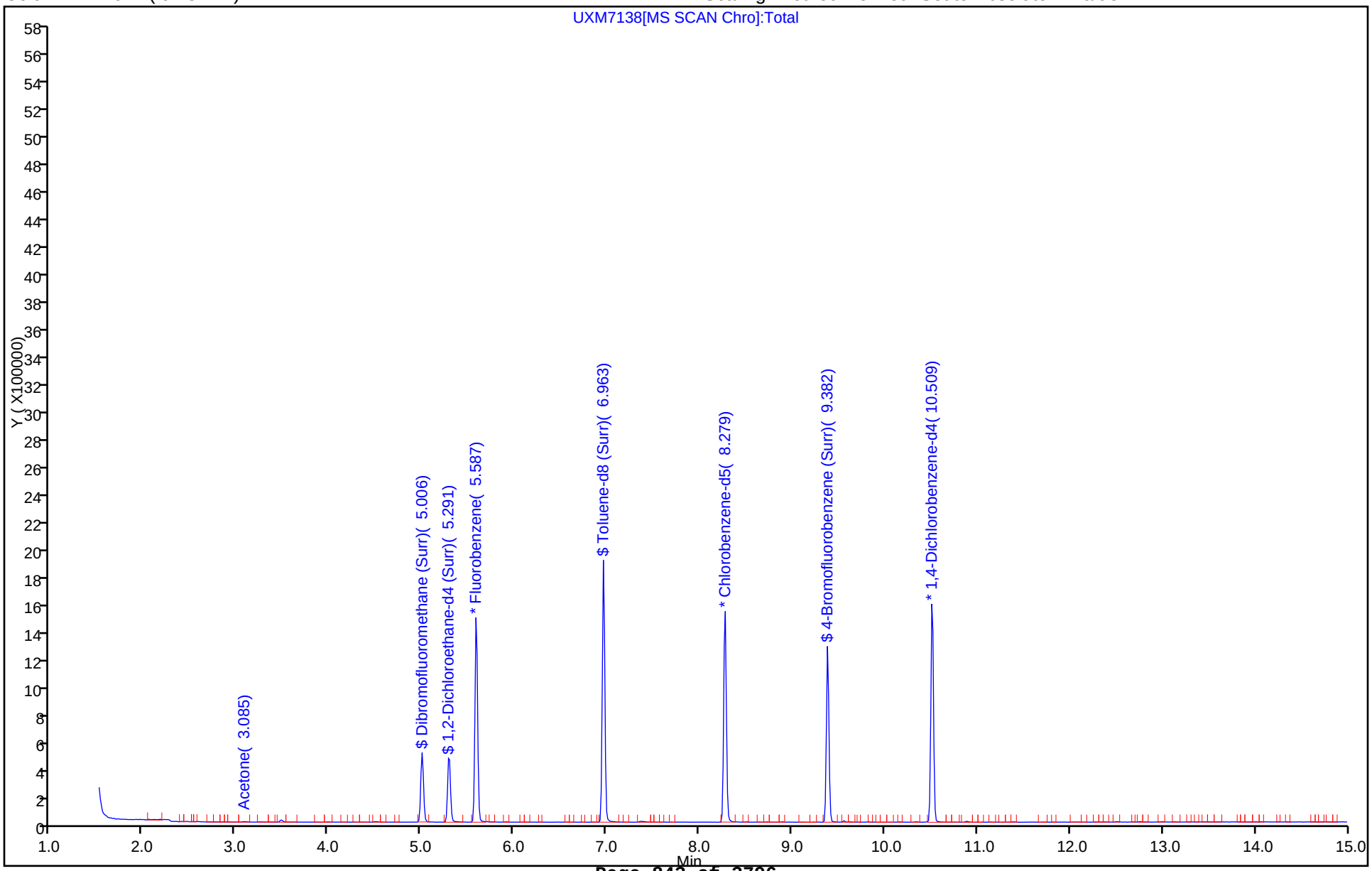
Report Date: 14-Apr-2015 13:40:58 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7138.D

Injection Date:	14-Apr-2015 09:38:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LB 240-176667/1-A MB

Matrix: Solid (TCLP) Lab File ID: U1243878.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 0.2(mL) Date Analyzed: 04/21/2015 18:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 177316 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.013	U	0.025	0.013	0.0095
107-06-2	1,2-Dichloroethane	0.013	U	0.025	0.013	0.011
78-93-3	2-Butanone (MEK)	0.025	U	0.25	0.025	0.029
71-43-2	Benzene	0.013	U	0.025	0.013	0.0065
56-23-5	Carbon tetrachloride	0.013	U	0.025	0.013	0.0065
108-90-7	Chlorobenzene	0.013	U	0.025	0.013	0.0075
127-18-4	Tetrachloroethene	0.025	U	0.025	0.025	0.015
79-01-6	Trichloroethene	0.013	U	0.025	0.013	0.0085
75-01-4	Vinyl chloride	0.013	U	0.025	0.013	0.011
67-66-3	Chloroform	0.013	U	0.025	0.013	0.0080

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		80-121
460-00-4	4-Bromofluorobenzene (Surr)	82		70-124
1868-53-7	Dibromofluoromethane (Surr)	95		84-128

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243878.D
Lims ID: LB 240-176667/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Apr-2015 18:23:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-008
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 18:42:44 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 18:42:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	669679	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	534923	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	93	264274	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	93	159051	16.5	15.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.109	0.011	87	173054	16.5	14.6	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	91	589888	16.5	14.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	93	205196	16.5	13.5	
9 Dichlorodifluoromethane	85		1.642					ND	
10 Chloromethane	50		1.784					ND	
11 Vinyl chloride	62		1.902					ND	
12 Butadiene	54		1.914					ND	
13 Bromomethane	94		2.186					ND	
14 Chloroethane	64		2.281					ND	
15 Dichlorofluoromethane	67		2.446					ND	
16 Trichlorofluoromethane	101		2.505					ND	
17 Ethyl ether	59		2.718					ND	
18 Acrolein	56		2.837					ND	
19 Methylal	45		2.856					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.943					ND	
22 1,1-Dichloroethene	61		2.943					ND	
21 Acetone	43		2.967					ND	
23 Iodomethane	142		3.097					ND	
24 Carbon disulfide	76		3.156					ND	
25 Acetonitrile	41		3.203					ND	
26 Methyl acetate	43	3.239	3.239	0.000	56	7887		0.9799	
27 3-Chloro-1-propene	41		3.286					ND	
28 Methylene Chloride	49	3.369	3.357	0.012	31	6376		0.3495	
29 2-Methyl-2-propanol	59		3.405					ND	
30 Acrylonitrile	53		3.535					ND	
32 Methyl tert-butyl ether	73		3.559					ND	
31 trans-1,2-Dichloroethene	61		3.570					ND	
33 Hexane	57		3.795					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63		3.925					ND	
35 Vinyl acetate	43		3.949					ND	
36 Isopropyl ether	87		3.973					ND	
37 2-Chloro-1,3-butadiene	53		3.996					ND	
38 Tert-butyl ethyl ether	59		4.268					ND	
40 2-Butanone (MEK)	43		4.411					ND	
39 cis-1,2-Dichloroethene	61		4.411					ND	
41 2,2-Dichloropropane	77		4.422					ND	
42 Ethyl acetate	43		4.458					ND	
43 Propionitrile	54		4.470					ND	
44 Methacrylonitrile	41		4.600					ND	
45 Chlorobromomethane	49		4.624					ND	
46 Tetrahydrofuran	42		4.659					ND	
47 Chloroform	83		4.671					ND	
48 1,1,1-Trichloroethane	97		4.848					ND	
49 Cyclohexane	84		4.919					ND	
50 1,1-Dichloropropene	75		4.990					ND	
51 Carbon tetrachloride	117		5.002					ND	
52 Isobutyl alcohol	41		5.050					ND	
53 Benzene	78		5.168					ND	
54 1,2-Dichloroethane	62		5.180					ND	
55 Tert-amyl methyl ether	73		5.251					ND	
56 n-Heptane	100		5.381					ND	
57 n-Butanol	56		5.629					ND	
58 Trichloroethene	130		5.724					ND	
59 Ethyl acrylate	55		5.795					ND	
60 Methylcyclohexane	83		5.913					ND	
61 1,2-Dichloropropane	63		5.937					ND	
62 Methyl methacrylate	41		6.008					ND	
64 Dibromomethane	174		6.043					ND	
63 1,4-Dioxane	88		6.055					ND	
65 Dichlorobromomethane	83		6.162					ND	
66 2-Nitropropane	41		6.375					ND	
67 2-Chloroethyl vinyl ether	63		6.422					ND	
68 cis-1,3-Dichloropropene	75		6.576					ND	
69 4-Methyl-2-pentanone (MIBK	43		6.706					ND	
70 Toluene	91		6.895					ND	
71 trans-1,3-Dichloropropene	75		7.085					ND	
72 Ethyl methacrylate	69		7.156					ND	
73 Tetrahydrothiophene	60		7.255					ND	
74 1,1,2-Trichloroethane	97		7.262					ND	
75 Tetrachloroethene	166		7.416					ND	
76 1,3-Dichloropropane	76		7.428					ND	
77 2-Hexanone	43		7.487					ND	
78 n-Butyl acetate	43		7.605					ND	
79 Chlorodibromomethane	129		7.653					ND	
80 Ethylene Dibromide	107		7.771					ND	
81 1-Chlorohexane	91		8.209					ND	
82 Chlorobenzene	112		8.244					ND	
83 1,1,1,2-Tetrachloroethane	131		8.327					ND	
84 Ethylbenzene	106		8.351					ND	
85 m-Xylene & p-Xylene	106		8.469					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 o-Xylene	106		8.872					ND	
87 Styrene	104		8.883					ND	
88 Bromoform	173		9.073					ND	
89 Isopropylbenzene	105		9.238					ND	
90 Cyclohexanone	55		9.345					ND	
91 1,1,2,2-Tetrachloroethane	83		9.534					ND	
92 Bromobenzene	156		9.570					ND	
93 1,2,3-Trichloropropane	110		9.593					ND	
94 trans-1,4-Dichloro-2-buten	53		9.593					ND	
95 N-Propylbenzene	120		9.664					ND	
96 2-Chlorotoluene	126		9.759					ND	
97 1,3,5-Trimethylbenzene	105		9.842					ND	
98 4-Chlorotoluene	126		9.866					ND	
99 tert-Butylbenzene	119		10.185					ND	
100 Pentachloroethane	167		10.209					ND	
101 1,2,4-Trimethylbenzene	105		10.232					ND	
102 sec-Butylbenzene	105		10.422					ND	
103 1,3-Dichlorobenzene	146		10.540					ND	
104 4-Isopropyltoluene	119		10.564					ND	
105 1,4-Dichlorobenzene	146		10.635					ND	
106 1,2,3-Trimethylbenzene	105		10.682					ND	
107 Benzyl chloride	91		10.777					ND	
108 n-Butylbenzene	91		11.001					ND	
109 1,2-Dichlorobenzene	146		11.025					ND	
110 1,2-Dibromo-3-Chloropropan	157		11.853					ND	
111 1,3,5-Trichlorobenzene	180		12.078					ND	
112 1,2,4-Trichlorobenzene	180		12.741					ND	
113 Hexachlorobutadiene	225	12.930	12.918	0.012	1	1492		0.2570	
114 Naphthalene	128		13.001					ND	
115 1,2,3-Trichlorobenzene	180		13.273					ND	
116 2-Methylnaphthalene	142	14.362	14.374	-0.012	23	15601		1.22	
119 Ethylene oxide	1		0.000					ND	
118 Propene oxide	1		0.000					ND	
123 Pentachloroethane TIC	1		0.000					ND	
120 1,4-Dichlorobutane	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
122 3-Ethyltoluene	1		0.000					ND	
117 2-Ethyltoluene	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	96		1.140					ND	
S 125 1,3-Dichloropropene, Total	75		6.760					ND	
S 126 Xylenes, Total	106		16.530					ND	
S 127 Trihalomethanes, Total	1		0.000					ND	
T 133 Chlorodifluoromethane TIC	51		1.650					ND	
T 128 1,3-Butadiene TIC	39		2.140					ND	
T 129 Hexachloroethane TIC	166		10.910					ND	
T 130 Isobutylene TIC	1		0.000					ND	
T 131 1,3-Diethylbenzene TIC	1		0.000					ND	
T 132 Butyl Methacrylate TIC	1		0.000					ND	

Reagents:

vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

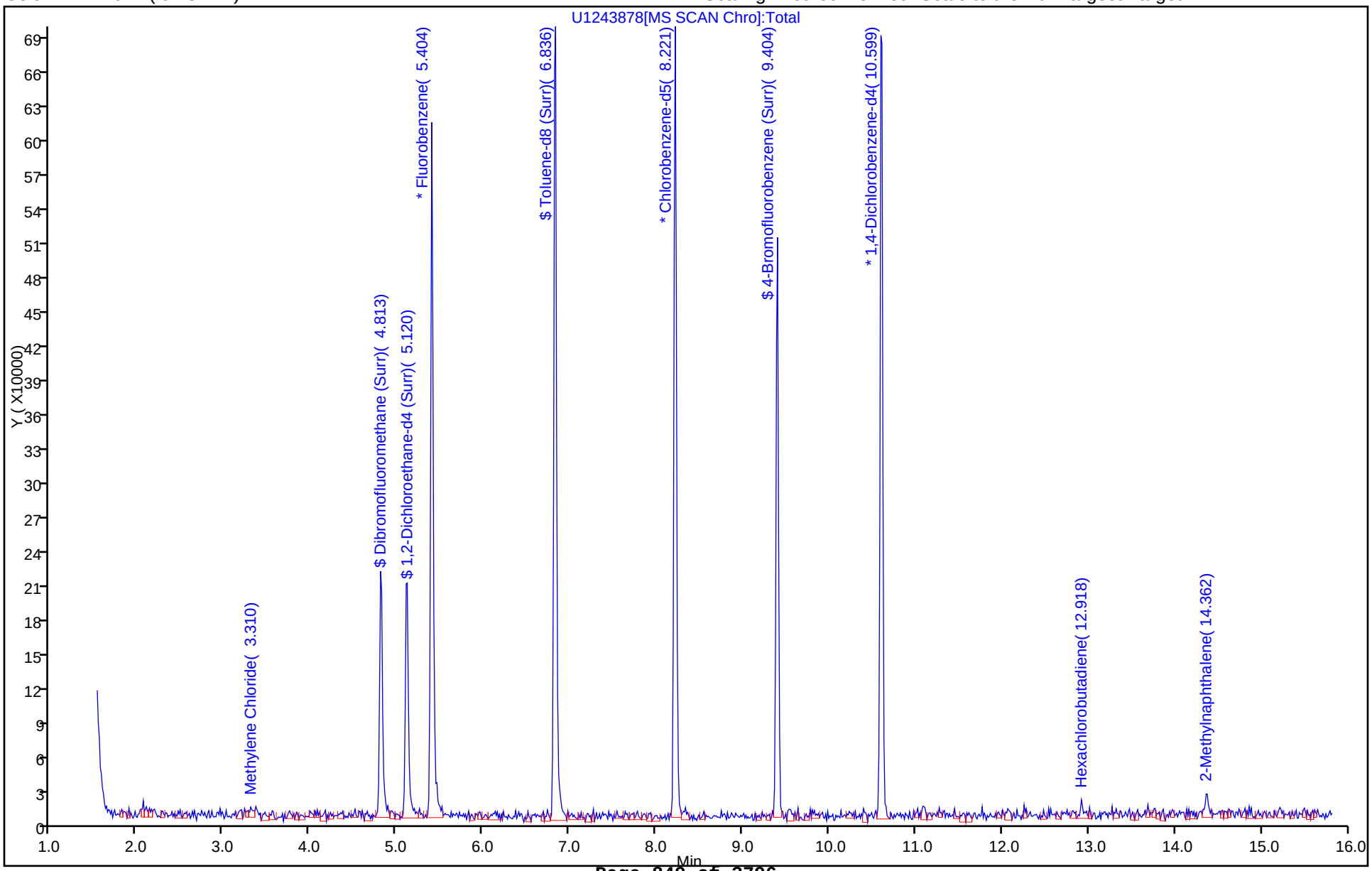
Report Date: 21-Apr-2015 18:42:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243878.D

Injection Date:	21-Apr-2015 18:23:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	LB 240-176667/1-A			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176298/4

Matrix: Water | Lab File ID: UXM7136.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/14/2015 08:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 176298 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	10.7		1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	9.22		1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	9.39		1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	10.6		1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	10.9		1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	10.5		1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	20.8		2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	10.2		1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	19.4		10	2.0	0.53
591-78-6	2-Hexanone	17.8		10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	19.4		10	2.0	0.99
67-64-1	Acetone	16.4		10	2.0	0.94
71-43-2	Benzene	10.2		1.0	1.0	0.35
75-25-2	Bromoform	9.41		1.0	1.0	0.56
74-83-9	Bromomethane	8.72		1.0	1.0	0.44
75-15-0	Carbon disulfide	11.3		1.0	1.0	0.38
56-23-5	Carbon tetrachloride	11.2		1.0	1.0	0.43
108-90-7	Chlorobenzene	9.48		1.0	1.0	0.25
74-87-3	Chloromethane	10.3		1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	10.6		1.0	1.0	0.46
124-48-1	Dibromochloromethane	9.75		1.0	1.0	0.43
75-27-4	Bromodichloromethane	9.94		1.0	1.0	0.29
100-41-4	Ethylbenzene	9.93		1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	10.2		1.0	0.50	0.20
75-09-2	Methylene Chloride	10.1		1.0	1.0	0.33
100-42-5	Styrene	10.1		1.0	0.50	0.45
127-18-4	Tetrachloroethene	10.0		1.0	1.0	0.31
108-88-3	Toluene	9.79		1.0	1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	10.7		1.0	1.0	0.56
79-01-6	Trichloroethene	10.5		1.0	1.0	0.22
75-01-4	Vinyl chloride	9.95		1.0	1.0	0.29
1330-20-7	Xylenes, Total	19.8		2.0	2.0	0.52
67-66-3	Chloroform	10.3		1.0	1.0	0.25
74-97-5	Bromochloromethane	10.2		1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	9.65		1.0	1.0	0.32
75-00-3	Chloroethane	9.31		1.0	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176298/4

Matrix: Water Lab File ID: UXM7136.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2015 08:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176298 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-120
460-00-4	4-Bromofluorobenzene (Surr)	98		75-120
1868-53-7	Dibromofluoromethane (Surr)	98		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7136.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Apr-2015 08:52:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-004
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:55 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1542337	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	85	1139963	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	91	636499	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	344226	11.4	11.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	388229	11.4	11.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1506212	11.4	11.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	545346	11.4	11.2	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	356077	10.0	12.5	
10 Chloromethane	50	1.781	1.769	0.012	99	401983	10.0	10.3	
11 Vinyl chloride	62	1.888	1.888	0.000	97	427617	10.0	9.95	
12 Butadiene	54	1.935	1.935	0.000	0	390811	10.0	10.1	
13 Bromomethane	94	2.232	2.232	0.000	89	180604	10.0	8.72	
14 Chloroethane	64	2.338	2.327	0.012	99	234709	10.0	9.31	
15 Dichlorofluoromethane	67	2.528	2.516	0.012	96	529670	10.0	9.39	
16 Trichlorofluoromethane	101	2.575	2.576	-0.001	96	407663	10.0	10.9	
17 Ethyl ether	59	2.836	2.836	0.000	87	285431	10.0	10.3	
18 Acrolein	56	2.955	2.943	0.012	97	166174	50.0	46.2	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	339776	10.0	10.9	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	90	275116	10.0	11.3	
21 Acetone	43	3.085	3.085	0.000	64	153122	20.0	16.4	
23 Iodomethane	142	3.192	3.192	0.000	96	572808	10.0	11.7	
24 Carbon disulfide	76	3.263	3.263	0.000	98	1082775	10.0	11.3	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	202461	10.0	9.53	
27 Methyl acetate	43	3.394	3.394	0.000	97	1005229	50.0	48.9	
28 Methylene Chloride	84	3.489	3.489	0.000	89	386220	10.0	10.1	
29 2-Methyl-2-propanol	59	3.583	3.572	0.011	99	183509	100.0	93.0	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1051464	100.0	98.6	
31 Methyl tert-butyl ether	73	3.749	3.738	0.011	94	928185	10.0	10.2	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	70	388895	10.0	10.4	
33 Hexane	86	3.998	3.987	0.011	90	108723	10.0	12.0	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	651516	10.0	10.6	
35 Vinyl acetate	43	4.141	4.141	0.000	97	387723	10.0	15.0	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	52	225315	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	417303	10.0	10.4	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	88	406468	10.0	10.4	
45 Chlorobromomethane	128	4.805	4.805	0.000	93	191636	10.0	10.2	
46 Tetrahydrofuran	42	4.852	4.852	0.000	88	138880	20.0	18.8	
47 Chloroform	83	4.876	4.864	0.012	92	614662	10.0	10.3	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	488259	10.0	10.7	
49 Cyclohexane	56	5.113	5.101	0.012	87	609282	10.0	10.8	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	526588	10.0	11.4	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	418158	10.0	11.2	
52 Isobutyl alcohol	41	5.232	5.232	0.000	95	151205	250.0	220.7	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	438991	10.0	10.5	
54 Benzene	78	5.362	5.362	0.000	95	1576227	10.0	10.2	
56 n-Heptane	57	5.587	5.588	-0.001	87	286557	10.0	10.8	
58 Trichloroethene	130	5.908	5.908	0.000	97	411022	10.0	10.5	
60 Methylcyclohexane	83	6.097	6.086	0.011	88	618617	10.0	10.3	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	77	356798	10.0	10.2	
63 Dibromomethane	93	6.192	6.192	0.000	91	190654	10.0	10.3	
64 1,4-Dioxane	88	6.204	6.192	0.012	38	44686	200.0	174.3	
65 Dichlorobromomethane	83	6.323	6.323	0.000	100	426954	10.0	9.94	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	219154	12.0	11.9	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	533866	10.0	10.6	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	444766	20.0	19.4	
70 Toluene	91	7.022	7.022	0.000	99	1653042	10.0	9.79	
71 trans-1,3-Dichloropropene	75	7.200	7.188	0.012	92	457786	10.0	10.7	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	88	366561	10.0	10.6	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	90	284262	10.0	9.39	
75 Tetrachloroethene	164	7.532	7.521	0.011	94	320510	10.0	10.0	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	92	499708	10.0	9.31	
76 2-Hexanone	43	7.580	7.580	0.000	94	292934	20.0	17.8	
78 Chlorodibromomethane	129	7.734	7.734	0.000	89	302254	10.0	9.75	
80 Ethylene Dibromide	107	7.852	7.841	0.011	98	277265	10.0	9.65	
82 Chlorobenzene	112	8.303	8.303	0.000	95	1025934	10.0	9.48	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	95	337701	10.0	9.81	
84 Ethylbenzene	106	8.398	8.398	0.000	98	574512	10.0	9.93	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	707414	10.0	9.76	
86 o-Xylene	106	8.884	8.884	0.000	96	700835	10.0	10.0	
87 Styrene	104	8.896	8.896	0.000	92	1128514	10.0	10.1	
88 Bromoform	173	9.074	9.074	0.000	99	177736	10.0	9.41	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	1810796	10.0	9.78	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	344518	10.0	9.22	
93 Bromobenzene	156	9.536	9.536	0.000	92	445056	10.0	9.67	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	110845	10.0	9.55	
94 trans-1,4-Dichloro-2-buten	53	9.548	9.560	-0.012	80	80556	10.0	8.83	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	513770	10.0	10.2	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	430462	10.0	9.90	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	1511941	10.0	9.91	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	451832	10.0	9.76	
102 tert-Butylbenzene	119	10.129	10.118	0.011	90	1318192	10.0	9.91	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	1543588	10.0	9.67	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	1896140	10.0	9.88	
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	98	864749	10.0	9.61	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	1631640	10.0	9.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	95	887967	10.0	9.63	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	1342009	10.0	9.60	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	807209	10.0	9.48	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	90	57942	10.0	9.26	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	94	489454	10.0	9.25	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	204247	10.0	9.31	
117 Naphthalene	128	12.750	12.750	0.000	96	1024998	10.0	8.96	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	422990	10.0	8.94	
S 133 Xylenes, Total	106				0		20.0	19.8	
S 134 Trihalomethanes, Total	1				0		40.0	39.4	

Reagents:

VMFASAW_00077	Amount Added:	8.00	Units: uL	
VMFASPW_00094	Amount Added:	8.00	Units: uL	
VMFASGW_00090	Amount Added:	8.00	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

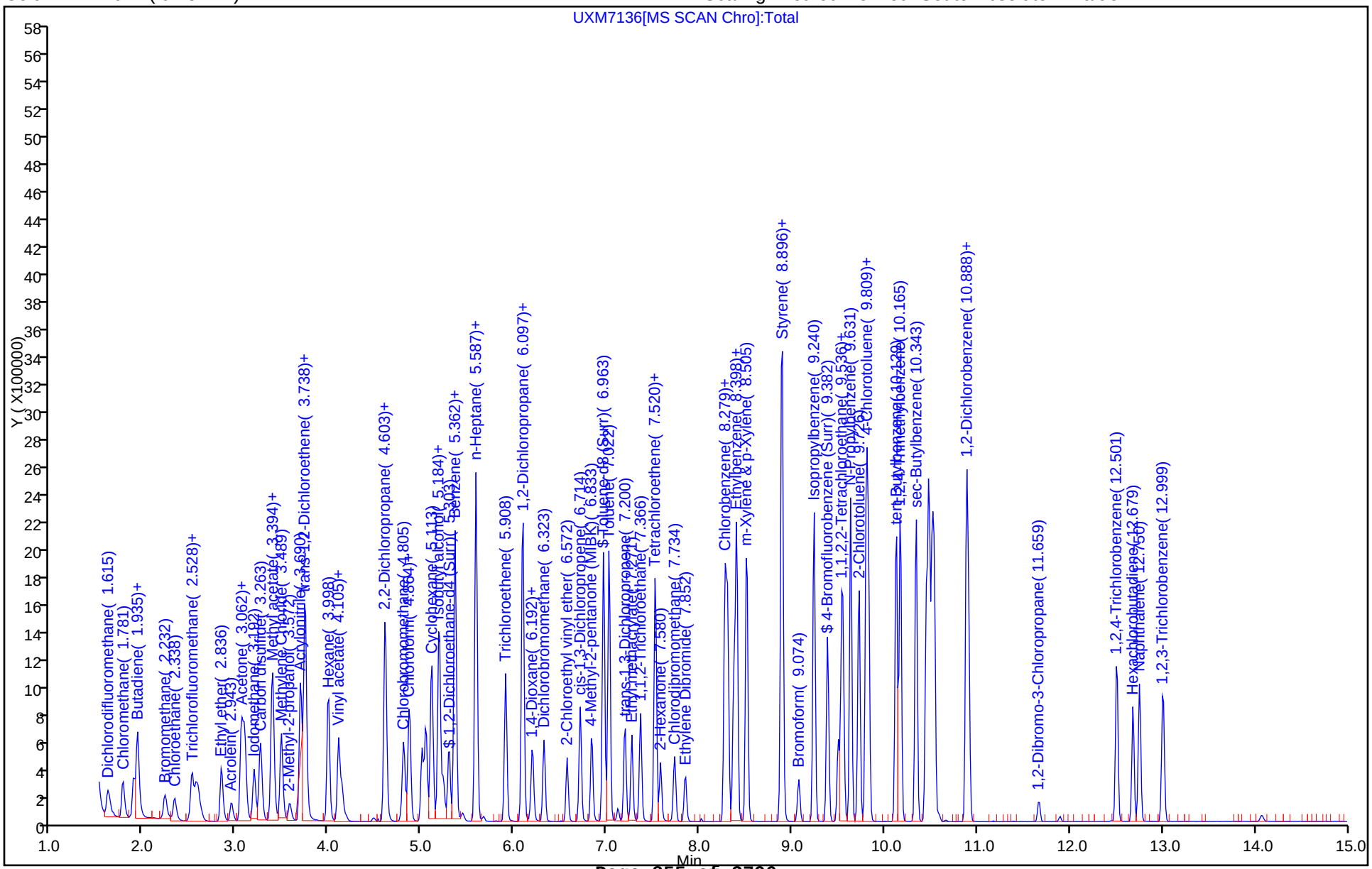
Report Date: 14-Apr-2015 13:40:57 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7136.D

Injection Date:	14-Apr-2015 08:52:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-177316/9

Matrix: Solid Lab File ID: U1243879.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 0.2(mL) Date Analyzed: 04/21/2015 18:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 177316 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.511		0.025	0.013	0.0095
107-06-2	1,2-Dichloroethane	0.464		0.025	0.013	0.011
78-93-3	2-Butanone (MEK)	0.859		0.25	0.025	0.029
71-43-2	Benzene	0.485		0.025	0.013	0.0065
56-23-5	Carbon tetrachloride	0.402		0.025	0.013	0.0065
108-90-7	Chlorobenzene	0.483		0.025	0.013	0.0075
127-18-4	Tetrachloroethene	0.463		0.025	0.025	0.015
79-01-6	Trichloroethene	0.531		0.025	0.013	0.0085
75-01-4	Vinyl chloride	0.493		0.025	0.013	0.011
67-66-3	Chloroform	0.481		0.025	0.013	0.0080

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		80-121
460-00-4	4-Bromofluorobenzene (Surr)	84		70-124
1868-53-7	Dibromofluoromethane (Surr)	94		84-128

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243879.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-Apr-2015 18:47:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-009
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 19:16:36 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 19:16:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	705683	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	569446	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	91	285023	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	93	166145	16.5	15.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.109	0.011	88	172894	16.5	13.8	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	90	636577	16.5	14.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	92	225291	16.5	13.9	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	99	321721	20.0	19.5	
10 Chloromethane	50	1.784	1.784	0.000	99	280331	20.0	16.9	
11 Vinyl chloride	62	1.902	1.902	0.000	82	344421	20.0	19.7	
12 Butadiene	54	1.914	1.914	0.000	97	281804	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	89	255246	20.0	20.4	
14 Chloroethane	64	2.280	2.281	-0.001	99	224868	20.0	18.7	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	96	483897	20.0	20.3	
16 Trichlorofluoromethane	101	2.529	2.505	0.024	84	481590	20.0	23.8	
17 Ethyl ether	59	2.718	2.718	0.000	89	170687	20.0	19.6	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	72	262732	20.0	25.2	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	95	418582	20.0	20.5	
21 Acetone	43	2.967	2.967	0.000	68	118605	40.0	31.0	
23 Iodomethane	142	3.097	3.097	0.000	100	559113	20.0	24.4	
24 Carbon disulfide	76	3.156	3.156	0.000	99	1014401	20.0	39.8	
26 Methyl acetate	43	3.239	3.239	0.000	96	692722	100.0	81.7	
27 3-Chloro-1-propene	41	3.286	3.286	0.000	93	168238	20.0	19.7	
28 Methylene Chloride	49	3.357	3.357	0.000	86	359037	20.0	18.7	
29 2-Methyl-2-propanol	59	3.416	3.405	0.011	99	188965	200.0	142.8	
30 Acrylonitrile	53	3.535	3.535	0.000	99	794535	200.0	183.1	
32 Methyl tert-butyl ether	73	3.558	3.559	-0.001	93	628971	20.0	17.8	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	94	305551	20.0	20.6	
33 Hexane	57	3.795	3.795	0.000	90	123674	20.0	18.9	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	99	382814	20.0	20.8	
35 Vinyl acetate	43	3.949	3.949	0.000	97	181472	20.0	17.6	
39 cis-1,2-Dichloroethene	61	4.410	4.411	-0.001	78	283821	20.0	18.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.410	4.411	-0.001	97	167430	40.0	34.4	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	74	123130	20.0	13.5	
45 Chlorobromomethane	49	4.623	4.624	-0.001	83	163287	20.0	19.7	
46 Tetrahydrofuran	42	4.659	4.659	0.000	80	96387	40.0	31.0	
47 Chloroform	83	4.683	4.671	0.012	93	365526	20.0	19.3	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	97	266071	20.0	19.0	
49 Cyclohexane	84	4.919	4.919	0.000	83	256673	20.0	21.3	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	97	253971	20.0	20.2	
51 Carbon tetrachloride	117	5.002	5.002	0.000	96	206098	20.0	16.1	
52 Isobutyl alcohol	41	5.049	5.050	-0.001	87	51659	500.0	144.8	
53 Benzene	78	5.168	5.168	0.000	95	869364	20.0	19.4	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	98	288059	20.0	18.6	
56 n-Heptane	100	5.381	5.381	0.000	82	34634	20.0	19.4	
58 Trichloroethene	130	5.724	5.724	0.000	95	256688	20.0	21.2	
60 Methylcyclohexane	83	5.913	5.913	0.000	86	196940	20.0	20.5	
61 1,2-Dichloropropane	63	5.925	5.937	-0.012	89	196194	20.0	18.8	
64 Dibromomethane	174	6.043	6.043	0.000	88	182944	20.0	19.4	
63 1,4-Dioxane	88	6.055	6.055	0.000	46	75308	400.0	469.4	
65 Dichlorobromomethane	83	6.174	6.162	0.012	99	249124	20.0	16.7	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	93	152025	24.0	20.2	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	97	291485	20.0	16.0	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	94	340507	40.0	32.6	
70 Toluene	91	6.895	6.895	0.000	99	943668	20.0	19.5	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	91	230389	20.0	14.1	
72 Ethyl methacrylate	69	7.156	7.156	0.000	88	203514	20.0	14.1	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	88	208247	20.0	19.6	
75 Tetrachloroethene	166	7.416	7.416	0.000	96	197792	20.0	18.5	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	86	368242	20.0	19.1	
77 2-Hexanone	43	7.487	7.487	0.000	95	251936	40.0	32.9	
79 Chlorodibromomethane	129	7.653	7.653	0.000	88	170966	20.0	15.2	
80 Ethylene Dibromide	107	7.771	7.771	0.000	99	206725	20.0	18.4	
82 Chlorobenzene	112	8.244	8.244	0.000	97	656407	20.0	19.3	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	90	171825	20.0	14.6	
84 Ethylbenzene	106	8.351	8.351	0.000	97	317729	20.0	20.1	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	95	367968	20.0	18.1	
86 o-Xylene	106	8.871	8.872	-0.001	95	388201	20.0	19.0	
87 Styrene	104	8.883	8.883	0.000	94	673952	20.0	19.7	
88 Bromoform	173	9.073	9.073	0.000	95	91648	20.0	11.1	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	794532	20.0	19.2	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	96	252698	20.0	17.7	
92 Bromobenzene	156	9.570	9.570	0.000	91	286491	20.0	19.0	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	84	107346	20.0	20.4	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	65	34968	20.0	9.21	
95 N-Propylbenzene	120	9.664	9.664	0.000	98	213000	20.0	18.9	
96 2-Chlorotoluene	126	9.759	9.759	0.000	98	229516	20.0	21.8	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	96	637120	20.0	19.4	
98 4-Chlorotoluene	126	9.865	9.866	-0.001	98	230350	20.0	19.2	
99 tert-Butylbenzene	119	10.185	10.185	0.000	91	565861	20.0	19.7	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	94	713166	20.0	19.4	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	723488	20.0	20.1	
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	99	464973	20.0	19.2	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	96	673445	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	96	508774	20.0	20.2	
108 n-Butylbenzene	91	11.001	11.001	0.000	96	505338	20.0	19.5	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	99	492549	20.0	19.2	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	82	42800	20.0	11.0	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	93	254376	20.0	16.9	
113 Hexachlorobutadiene	225	12.918	12.918	0.000	93	85765	20.0	13.7	
114 Naphthalene	128	13.001	13.001	0.000	97	694967	20.0	17.0	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	95	229341	20.0	17.8	
S 126 Xylenes, Total	106				0		40.0	37.1	
S 127 Trihalomethanes, Total	1				0		80.0	62.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMFASGW_00091	Amount Added:	16.00	Units: uL	
VMFASPW_00095	Amount Added:	16.00	Units: uL	
vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

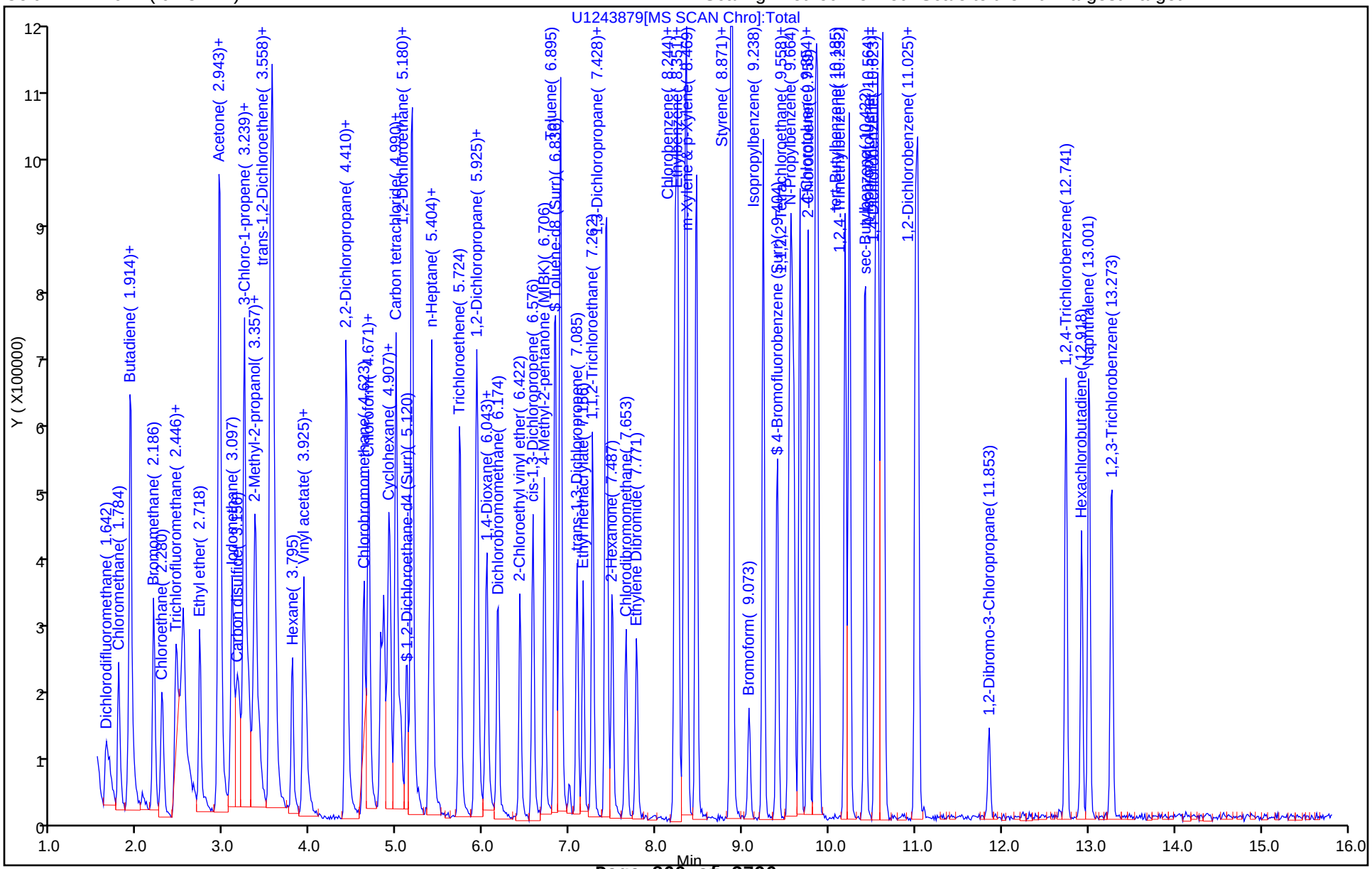
Report Date: 21-Apr-2015 19:16:36 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243879.D

Injection Date:	21-Apr-2015 18:47:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176298/5

Matrix: Water | Lab File ID: UXM7137.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/14/2015 09:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 176298 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.00109		0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.000903	J	0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.000924	J	0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.00104		0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.00100		0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.000987	J	0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.00203		0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.00102		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.00892	J	0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.00881	J	0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00924	J	0.010	0.00050	0.0036
67-64-1	Acetone	0.00855	J	0.010	0.0010	0.0034
71-43-2	Benzene	0.00102		0.0010	0.00025	0.00024
75-25-2	Bromoform	0.000768	J	0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.00143	^	0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.000940	J	0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.000976	J	0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.000987	J	0.0010	0.00025	0.00019
74-87-3	Chloromethane	0.00138	^	0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.000980	J	0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.000862	J	0.0010	0.00025	0.00043
75-27-4	Bromodichloromethane	0.000930	J	0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.000988	J	0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.00101		0.0010	0.00025	0.00016
75-09-2	Methylene Chloride	0.000888	J	0.0010	0.00050	0.00028
100-42-5	Styrene	0.000929	J	0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.00110		0.0010	0.00050	0.00020
108-88-3	Toluene	0.000982	J	0.0010	0.00025	0.00022
10061-02-6	trans-1,3-Dichloropropene	0.000921	J	0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.00105		0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.00137	^	0.0010	0.00025	0.00029
1330-20-7	Xylenes, Total	0.00187	J	0.0020	0.00025	0.00043
67-66-3	Chloroform	0.000987	J	0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.00104		0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.000984	J	0.0010	0.00025	0.00019
75-00-3	Chloroethane	0.00133	^	0.0010	0.00050	0.00033

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176298/5

Matrix: Water Lab File ID: UXM7137.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2015 09:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176298 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		50-150
460-00-4	4-Bromofluorobenzene (Surr)	99		50-150
1868-53-7	Dibromofluoromethane (Surr)	99		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7137.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 09:15:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-005
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:55 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: quayler Date: 14-Apr-2015 10:05:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1491885	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	85	1107792	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	606528	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	95	335006	11.4	11.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	375161	11.4	11.4	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1443255	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	533797	11.4	11.2	
$ 8 BFB	95	3.726	3.775	-0.049	0	2040		NR	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	42692	1.00	1.55	
10 Chloromethane	50	1.769	1.769	0.000	98	52387	1.00	1.38	
11 Vinyl chloride	62	1.888	1.888	0.000	97	56802	1.00	1.37	
12 Butadiene	54	1.935	1.935	0.000	0	52219	1.00	1.40	
13 Bromomethane	94	2.220	2.232	-0.012	89	28680	1.00	1.43	
14 Chloroethane	64	2.326	2.327	0.000	98	32508	1.00	1.33	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	69697	1.00	1.28	
16 Trichlorofluoromethane	101	2.575	2.576	-0.001	97	50872	1.00	1.40	
17 Ethyl ether	59	2.836	2.836	0.000	87	26644	1.00	0.99	
18 Acrolein	56	2.955	2.943	0.012	98	16294	5.00	4.69	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	98	30322	1.00	1.00	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	93	25022	1.00	1.07	
21 Acetone	43	3.085	3.085	0.000	100	77065	10.0	8.55	
22 Methylal	45		3.109					ND	
23 Iodomethane	142	3.192	3.192	0.000	96	48813	1.00	1.03	
24 Carbon disulfide	76	3.263	3.263	0.000	98	87264	1.00	0.9402	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	90	18084	1.00	0.8800	
27 Methyl acetate	43	3.394	3.394	0.000	97	104379	5.00	5.25	
28 Methylene Chloride	84	3.489	3.489	0.000	88	48581	1.00	0.8878	
29 2-Methyl-2-propanol	59	3.583	3.572	0.011	98	18692	10.0	9.79	
30 Acrylonitrile	53	3.702	3.690	0.012	99	100288	10.0	9.72	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	95	89465	1.00	1.01	
32 trans-1,2-Dichloroethene	96	3.749	3.738	0.011	68	36532	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	86	3.999	3.987	0.011	88	7930	1.00	0.9080	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	61553	1.00	1.04	
35 Vinyl acetate	43	4.141	4.141	0.000	97	22556	0.9600	0.9028	
36 Isopropyl ether	87		4.165					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	97	100038	10.0	8.92	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	73	39452	1.00	1.02	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	81	40192	1.00	1.06	
42 Propionitrile	54		4.651					ND	
43 Ethyl acetate	43		4.651					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128	4.805	4.805	0.000	94	18904	1.00	1.04	
46 Tetrahydrofuran	42	4.852	4.852	0.000	64	13780	2.00	1.93	
47 Chloroform	83	4.864	4.864	0.000	92	57244	1.00	0.9872	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	48002	1.00	1.09	
49 Cyclohexane	56	5.101	5.101	0.000	86	55191	1.00	1.01	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	46559	1.00	1.04	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	35335	1.00	0.9756	
52 Isobutyl alcohol	41	5.244	5.232	0.012	92	14835	25.0	22.4	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	39829	1.00	0.9873	
54 Benzene	78	5.362	5.362	0.000	94	152186	1.00	1.02	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57	5.588	5.588	0.000	38	68277	1.00	1.43	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130	5.908	5.908	0.000	96	40061	1.00	1.05	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83	6.086	6.086	0.000	88	61618	1.00	1.07	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	77	34336	1.00	1.02	
62 Methyl methacrylate	41	6.097	6.169	-0.072	64	39319		1.93	
63 Dibromomethane	93	6.192	6.192	0.000	92	19049	1.00	1.06	
64 1,4-Dioxane	88	6.204	6.192	0.012	38	4928	20.0	19.9	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	38634	1.00	0.9299	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	33041	2.00	1.86	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	47957	1.00	0.9801	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	94	204888	10.0	9.24	
70 Toluene	91	7.022	7.022	0.000	98	161083	1.00	0.9821	
71 trans-1,3-Dichloropropene	75	7.200	7.188	0.012	91	38368	1.00	0.9211	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	85	32468	1.00	0.9643	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	91	27199	1.00	0.9243	
75 Tetrachloroethene	164	7.532	7.521	0.011	93	34202	1.00	1.10	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	90	51247	1.00	0.9825	
76 2-Hexanone	43	7.580	7.580	0.000	96	141242	10.0	8.81	
77 n-Butyl acetate	43		7.698					ND	
79 Tetrahydrothiophene	60		7.734					ND	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	25976	1.00	0.8622	
80 Ethylene Dibromide	107	7.853	7.841	0.012	98	27490	1.00	0.9842	
81 1-Chlorohexane	91		8.268					ND	
82 Chlorobenzene	112	8.303	8.303	0.000	95	103737	1.00	0.9867	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	92	31385	1.00	0.9377	
84 Ethylbenzene	106	8.398	8.398	0.000	98	55569	1.00	0.9882	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	96	65967	1.00	0.9369	
86 o-Xylene	106	8.884	8.884	0.000	96	63354	1.00	0.9313	
87 Styrene	104	8.896	8.896	0.000	91	101328	1.00	0.9292	
88 Bromoform	173	9.074	9.074	0.000	96	14097	1.00	0.7679	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	170231	1.00	0.9458	
90 1,4-Dichlorobutane	55		9.323					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	32132	1.00	0.9029	
93 Bromobenzene	156	9.536	9.536	0.000	93	45371	1.00	1.03	
95 1,2,3-Trichloropropane	110	9.560	9.548	0.012	82	10375	1.00	0.9381	
94 trans-1,4-Dichloro-2-buten	53	9.548	9.560	-0.012	71	8291	1.00	0.9533	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	46218	1.00	0.9626	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	42360	1.00	1.02	
98 3-Ethyltoluene	105	9.797	9.733	0.064	94	140158		NC	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	93	140158	1.00	0.9638	
100 4-Chlorotoluene	126	9.833	9.821	0.012	96	45051	1.00	1.02	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119	10.129	10.118	0.011	89	127625	1.00	1.01	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	96	148126	1.00	0.9737	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	177226	1.00	0.9696	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	84482	1.00	0.9848	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	150445	1.00	0.9433	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	95	91515	1.00	1.04	
109 1,2,3-Trimethylbenzene	105		10.580					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	128431	1.00	0.9645	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	98	83300	1.00	1.03	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	82	5094	1.00	0.8544	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180	12.501	12.501	0.000	92	48633	1.00	0.9645	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	93	22754	1.00	1.09	
117 Naphthalene	128	12.750	12.750	0.000	97	97034	1.00	0.8900	
118 1,2,3-Trichlorobenzene	180	12.999	13.011	-0.012	94	45807	1.00	1.02	
119 2-Methylnaphthalene	142		14.066					ND	
129 Isobutylene TIC	1		0.000					ND	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96				0		2.00	2.03	
S 132 1,3-Dichloropropene, Total	75				0		2.00	1.90	
S 133 Xylenes, Total	106				0		2.00	1.87	
S 134 Trihalomethanes, Total	1				0		4.00	3.55	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VMRPRIMW_00120	Amount Added:	0.80	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.80	Units: uL	
VMRGAS_00097	Amount Added:	0.80	Units: uL	
VMKETONE_00012	Amount Added:	3.20	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

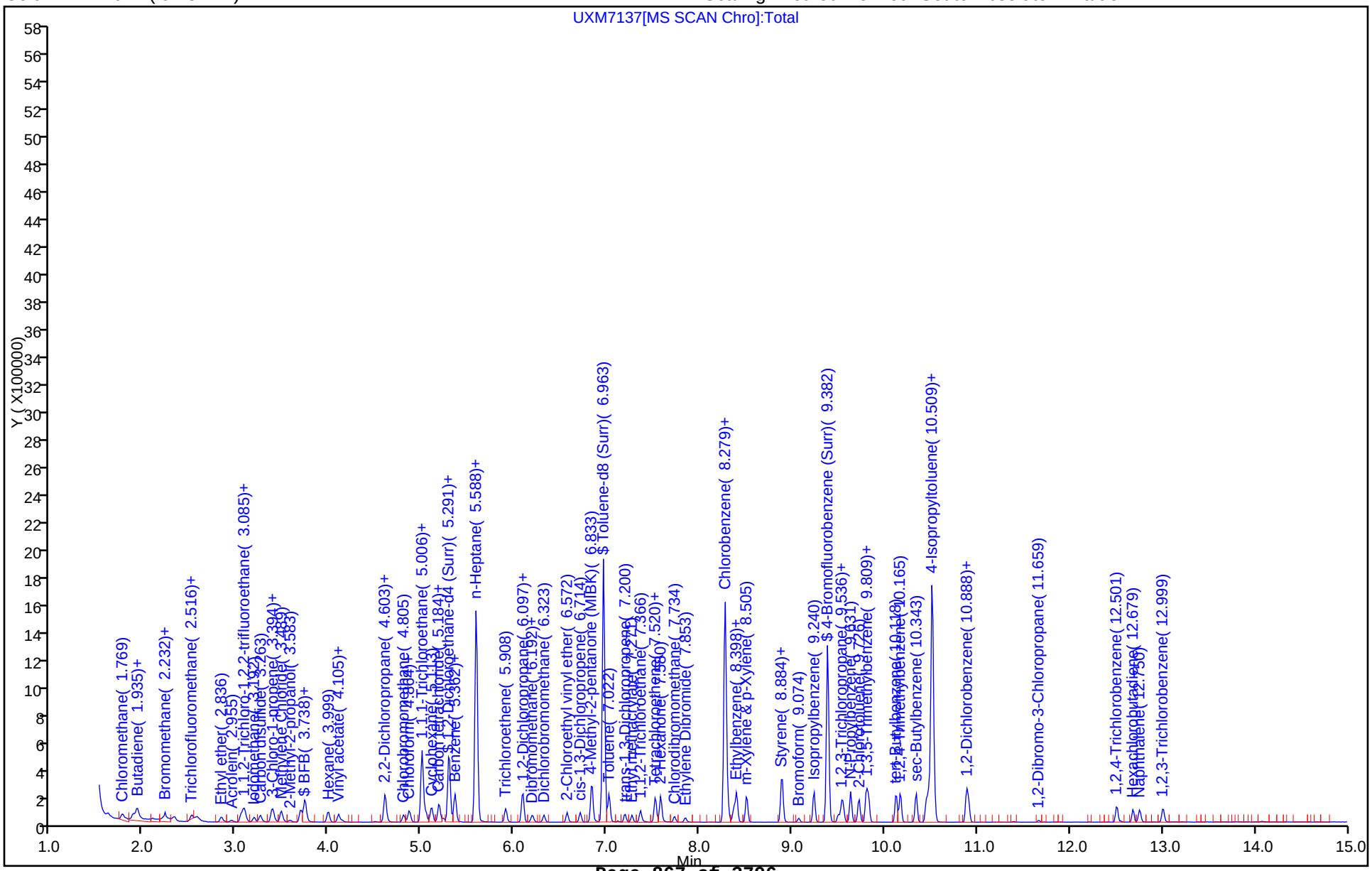
Report Date: 14-Apr-2015 13:40:57 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7137.D

Injection Date:	14-Apr-2015 09:15:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	MRL			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176298/15

Matrix: Water | Lab File ID: UXM7147.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/14/2015 13:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 176298 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.000982	J	0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.000945	J	0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.000931	J	0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.000968	J	0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.000965	J	0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.000984	J	0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.00189	J	0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.000928	J	0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.00811	J	0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.00817	J	0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00909	J	0.010	0.00050	0.0036
67-64-1	Acetone	0.00706	J	0.010	0.0010	0.0034
71-43-2	Benzene	0.000970	J	0.0010	0.00025	0.00024
75-25-2	Bromoform	0.000830	J	0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.00136	^	0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.000787	J	0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.000935	J	0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.000960	J	0.0010	0.00025	0.00019
74-87-3	Chloromethane	0.00130		0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.000825	J	0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.000768	J	0.0010	0.00025	0.00043
75-27-4	Bromodichloromethane	0.000958	J	0.0010	0.00025	0.00015
100-41-4	Ethylbenzene	0.00101		0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.000891	J	0.0010	0.00025	0.00016
75-09-2	Methylene Chloride	0.000972	J	0.0010	0.00050	0.00028
100-42-5	Styrene	0.000846	J	0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.00102		0.0010	0.00050	0.00020
108-88-3	Toluene	0.000947	J	0.0010	0.00025	0.00022
10061-02-6	trans-1,3-Dichloropropene	0.000794	J	0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.000992	J	0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.00130		0.0010	0.00025	0.00029
1330-20-7	Xylenes, Total	0.00189	J	0.0020	0.00025	0.00043
67-66-3	Chloroform	0.000964	J	0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.000981	J	0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.000904	J	0.0010	0.00025	0.00019
75-00-3	Chloroethane	0.00131	^	0.0010	0.00050	0.00033

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176298/15

Matrix: Water Lab File ID: UXM7147.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2015 13:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176298 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150
1868-53-7	Dibromofluoromethane (Surr)	96		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7147.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 13:13:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042532-015
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 13:40:55 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: quayler Date: 14-Apr-2015 13:37:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1496350	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.279	0.001	84	1092798	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	604321	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	94	327814	11.4	11.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	377996	11.4	11.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1424599	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	516022	11.4	11.0	
$ 8 BFB	95	3.738	3.775	-0.037	0	1050		NR	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	42002	1.00	1.52	
10 Chloromethane	50	1.769	1.769	0.000	99	49234	1.00	1.30	
11 Vinyl chloride	62	1.888	1.888	0.000	97	54025	1.00	1.30	
12 Butadiene	54	1.923	1.935	-0.012	0	50934	1.00	1.36	
13 Bromomethane	94	2.220	2.232	-0.012	91	27382	1.00	1.36	
14 Chloroethane	64	2.327	2.327	0.001	99	31963	1.00	1.31	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	68307	1.00	1.25	
16 Trichlorofluoromethane	101	2.564	2.576	-0.012	98	53008	1.00	1.46	
17 Ethyl ether	59	2.836	2.836	0.000	90	24376	1.00	0.9036	
18 Acrolein	56	2.955	2.943	0.012	98	15131	5.00	4.34	
19 1,1-Dichloroethene	96	3.062	3.050	0.012	96	29223	1.00	0.9655	
20 1,1,2-Trichloro-1,2,2-trif	151	3.074	3.085	-0.011	70	23590	1.00	1.00	
21 Acetone	43	3.086	3.085	0.001	100	63844	10.0	7.06	
22 Methylal	45		3.109					ND	
23 Iodomethane	142	3.192	3.192	0.000	96	45215	1.00	0.9496	
24 Carbon disulfide	76	3.252	3.263	-0.011	100	73251	1.00	0.7868	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	92	16734	1.00	0.8119	
27 Methyl acetate	43	3.394	3.394	0.000	97	95193	5.00	4.78	
28 Methylene Chloride	84	3.489	3.489	0.000	88	51692	1.00	0.9719	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	98	18056	10.0	9.43	
30 Acrylonitrile	53	3.690	3.690	0.000	99	93348	10.0	9.02	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	96	78852	1.00	0.8905	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	84	34852	1.00	0.9596	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	86	3.987	3.987	0.000	90	8983	1.00	1.03	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	57481	1.00	0.9679	
35 Vinyl acetate	43	4.141	4.141	0.000	95	20621	0.9600	0.8229	
36 Isopropyl ether	87		4.165					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	98	91256	10.0	8.11	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	75	36041	1.00	0.9298	
41 2,2-Dichloropropane	77	4.603	4.610	-0.007	55	35804	1.00	0.9409	
42 Propionitrile	54		4.651					ND	
43 Ethyl acetate	43		4.651					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128	4.805	4.805	0.000	90	17843	1.00	0.9812	
46 Tetrahydrofuran	42	4.852	4.852	0.000	60	12211	2.00	1.70	
47 Chloroform	83	4.864	4.864	0.000	94	56038	1.00	0.9635	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	43467	1.00	0.9822	
49 Cyclohexane	56	5.113	5.101	0.012	85	52714	1.00	0.9635	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	95	41894	1.00	0.9344	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	33980	1.00	0.9354	
52 Isobutyl alcohol	41	5.232	5.232	0.000	90	15273	25.0	23.0	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	39822	1.00	0.9842	
54 Benzene	78	5.362	5.362	0.000	94	145473	1.00	0.9704	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57	5.588	5.588	0.000	38	64753	1.00	1.26	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130	5.908	5.908	0.000	92	37777	1.00	0.99	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83	6.086	6.086	0.000	87	58177	1.00	1.00	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	91	31479	1.00	0.9281	
62 Methyl methacrylate	41	6.086	6.169	-0.083	61	36268		1.77	
63 Dibromomethane	93	6.192	6.192	0.000	92	16978	1.00	0.9432	
64 1,4-Dioxane	88	6.204	6.192	0.012	38	5000	20.0	20.1	
65 Dichlorobromomethane	83	6.323	6.323	0.000	98	39918	1.00	0.9580	
66 2-Nitropropane	41	6.572	6.501	0.071	43	1698		0.3392	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	31070	2.00	1.74	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	96	40493	1.00	0.8251	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	202165	10.0	9.09	
70 Toluene	91	7.023	7.022	0.001	99	153224	1.00	0.9470	
71 trans-1,3-Dichloropropene	75	7.200	7.188	0.012	92	32617	1.00	0.7938	
72 Ethyl methacrylate	69	7.272	7.272	0.000	89	27038	1.00	0.8141	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	89	27033	1.00	0.9313	
75 Tetrachloroethene	164	7.532	7.521	0.011	92	31145	1.00	1.02	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	89	51392	1.00	1.00	
76 2-Hexanone	43	7.580	7.580	0.000	95	129240	10.0	8.17	
77 n-Butyl acetate	43		7.698					ND	
79 Tetrahydrothiophene	60		7.734					ND	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	22832	1.00	0.7682	
80 Ethylene Dibromide	107	7.853	7.841	0.012	97	24918	1.00	0.9044	
81 1-Chlorohexane	91		8.268					ND	
82 Chlorobenzene	112	8.303	8.303	0.000	95	99554	1.00	0.9599	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	91	28657	1.00	0.8680	
84 Ethylbenzene	106	8.398	8.398	0.000	97	55760	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	99	66330	1.00	0.9550	
86 o-Xylene	106	8.884	8.884	0.000	93	62816	1.00	0.9361	
87 Styrene	104	8.896	8.896	0.000	93	91029	1.00	0.8463	
88 Bromoform	173	9.074	9.074	0.000	95	15028	1.00	0.8298	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	161620	1.00	0.9103	
90 1,4-Dichlorobutane	55		9.323					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	33525	1.00	0.9455	
93 Bromobenzene	156	9.537	9.536	0.001	90	43579	1.00	1.00	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	10104	1.00	0.9169	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	69	5831	1.00	0.6729	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	43436	1.00	0.9079	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	39499	1.00	0.9564	
98 3-Ethyltoluene	105	9.797	9.733	0.064	92	128499		NC	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	96	128499	1.00	0.8868	
100 4-Chlorotoluene	126	9.833	9.821	0.012	96	40704	1.00	0.9264	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119	10.129	10.118	0.011	91	116909	1.00	0.9256	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	133482	1.00	0.8807	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	167238	1.00	0.9183	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	81538	1.00	0.9540	
107 4-Isopropyltoluene	119	10.485	10.473	0.012	97	137348	1.00	0.8643	
108 1,4-Dichlorobenzene	146	10.545	10.533	0.012	96	83459	1.00	0.9534	
109 1,2,3-Trimethylbenzene	105		10.580					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91	10.888	10.888	0.000	96	116273	1.00	0.8764	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	76884	1.00	0.9508	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	78	4769	1.00	0.8028	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	93	45133	1.00	0.8984	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	93	19258	1.00	0.9246	
117 Naphthalene	128	12.750	12.750	0.000	96	78994	1.00	0.7271	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	38318	1.00	0.8530	
119 2-Methylnaphthalene	142		14.066					ND	
129 Isobutylene TIC	1		0.000					ND	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96				0		2.00	1.89	
S 132 1,3-Dichloropropene, Total	75				0		2.00	1.62	
S 133 Xylenes, Total	106				0		2.00	1.89	
S 134 Trihalomethanes, Total	1				0		4.00	3.52	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VMAROLISTDW_00095	Amount Added:	0.80	Units: uL	
VMRPRIMW_00120	Amount Added:	0.80	Units: uL	
VMRGAS_00097	Amount Added:	0.80	Units: uL	
VMKETONE_00012	Amount Added:	3.20	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

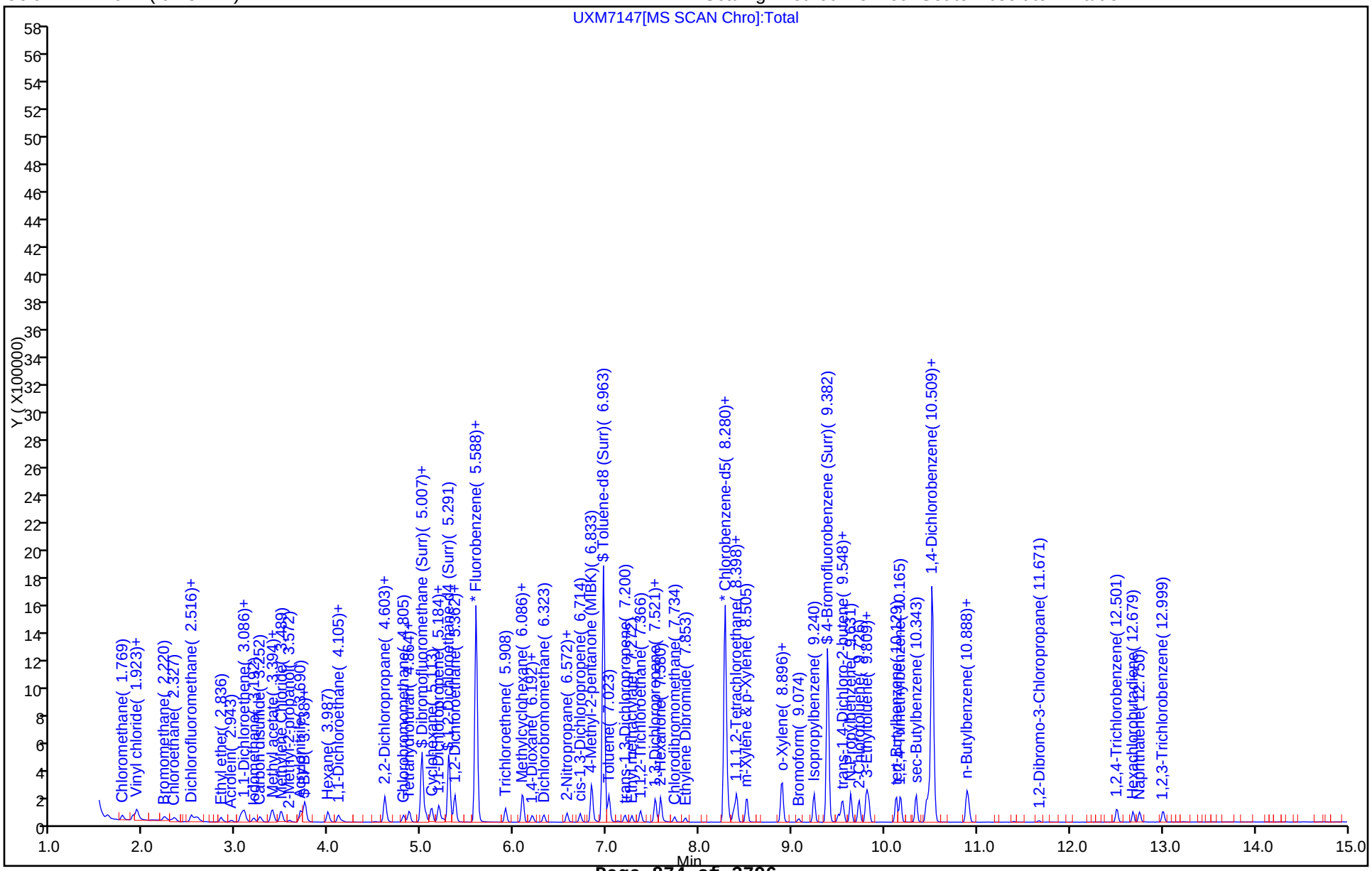
Report Date: 14-Apr-2015 13:41:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150414-42532.b\UXM7147.D

Injection Date:	14-Apr-2015 13:13:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	MRL			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177316/7

Matrix: Solid | Lab File ID: U1243876.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/21/2015 17:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 177316 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.000978	J	0.0010	0.00025	0.00019
107-06-2	1,2-Dichloroethane	0.00118		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.00738	J	0.010	0.00050	0.00057
71-43-2	Benzene	0.00104		0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.000795	J	0.0010	0.00025	0.00013
108-90-7	Chlorobenzene	0.00111		0.0010	0.00025	0.00015
127-18-4	Tetrachloroethene	0.00106		0.0010	0.00050	0.00029
79-01-6	Trichloroethene	0.00118		0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.00127		0.0010	0.00025	0.00022
67-66-3	Chloroform	0.00110		0.0010	0.00025	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		50-150
460-00-4	4-Bromofluorobenzene (Surr)	89		50-150
1868-53-7	Dibromofluoromethane (Surr)	94		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243876.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 17:36:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-007
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 16:40:05 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 18:41:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	656818	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	511509	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	94	245796	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.825	4.813	0.012	91	153578	16.5	15.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.121	5.109	0.011	88	175440	16.5	15.0	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	611920	16.5	15.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	92	212981	16.5	14.7	
$ 8 BFB	95	2.186	3.745	-1.559	0	2884		NR	
9 Dichlorodifluoromethane	85	1.630	1.642	-0.012	59	15687	1.00	1.23	
10 Chloromethane	50	1.784	1.784	0.000	81	15247	1.00	0.9859	
11 Vinyl chloride	62	1.914	1.902	0.012	79	20712	1.00	1.27	
12 Butadiene	54	1.926	1.914	0.012	91	21925	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	91	17379	1.00	1.49	
14 Chloroethane	64	2.292	2.281	0.011	67	12494	1.00	1.11	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	96	33748	1.00	1.52	
16 Trichlorofluoromethane	101	2.505	2.505	0.000	45	12159	1.00	0.9666	
17 Ethyl ether	59	2.718	2.718	0.000	83	9344	1.00	1.15	
18 Acrolein	56	2.837	2.837	0.000	61	8380	5.00	17.0	
19 Methylal	45		2.856					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	73	11060	1.00	1.14	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	92	18635	1.00	0.9784	
21 Acetone	43	2.967	2.967	0.000	98	33469	10.0	7.96	
23 Iodomethane	142	3.097	3.097	0.000	98	26418	1.00	1.24	
24 Carbon disulfide	76	3.156	3.156	0.000	76	19016	1.00	0.8016	
25 Acetonitrile	41		3.203					ND	
26 Methyl acetate	43	3.239	3.239	0.000	98	41446	5.00	5.25	
27 3-Chloro-1-propene	41	3.298	3.286	0.012	35	5758	1.00	0.1970	
28 Methylene Chloride	49	3.357	3.357	0.000	90	21452	1.00	1.20	
29 2-Methyl-2-propanol	59	3.417	3.405	0.012	75	12304	10.0	10.0	
30 Acrylonitrile	53	3.535	3.535	0.000	97	40564	10.0	10.0	
32 Methyl tert-butyl ether	73	3.559	3.559	0.000	92	33903	1.00	1.03	
31 trans-1,2-Dichloroethene	61	3.582	3.570	0.012	66	14724	1.00	1.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57	3.795	3.795	0.000	75	7106	1.00	1.17	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	64	16767	1.00	0.9809	
35 Vinyl acetate	43	3.937	3.949	-0.012	46	7529	0.9600	0.7860	
36 Isopropyl ether	87		3.973					ND	
37 2-Chloro-1,3-butadiene	53		3.996					ND	
38 Tert-butyl ethyl ether	59		4.268					ND	
40 2-Butanone (MEK)	43	4.422	4.411	0.011	96	36297	10.0	7.38	
39 cis-1,2-Dichloroethene	61	4.411	4.411	0.000	67	16900	1.00	1.16	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	48	6416	1.00	0.7541	
42 Ethyl acetate	43		4.458					ND	
43 Propionitrile	54		4.470					ND	
44 Methacrylonitrile	41		4.600					ND	
45 Chlorobromomethane	49	4.624	4.624	0.000	76	8239	1.00	1.07	
46 Tetrahydrofuran	42	4.659	4.659	0.000	80	7554	2.00	1.44	
47 Chloroform	83	4.683	4.671	0.012	95	19517	1.00	1.10	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	35	13577	1.00	1.04	
49 Cyclohexane	84	4.931	4.919	0.012	43	10908	1.00	0.9720	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	91	12057	1.00	1.03	
51 Carbon tetrachloride	117	4.990	5.002	-0.012	69	9483	1.00	0.7953	
52 Isobutyl alcohol	41	5.026	5.050	-0.024	1	5723	25.0	17.2	
53 Benzene	78	5.168	5.168	0.000	93	43158	1.00	1.04	
54 1,2-Dichloroethane	62	5.192	5.180	0.012	56	17068	1.00	1.18	
55 Tert-amyl methyl ether	73		5.251					ND	
56 n-Heptane	100	5.381	5.381	0.000	44	1021	1.00	0.6154	
57 n-Butanol	56		5.629					ND	
58 Trichloroethene	130	5.736	5.724	0.012	93	13322	1.00	1.18	
59 Ethyl acrylate	55		5.795					ND	
60 Methylcyclohexane	83	5.913	5.913	0.000	60	8425	1.00	0.9440	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	88	11862	1.00	1.22	
62 Methyl methacrylate	41	5.925	6.008	-0.083	72	9147		1.05	
64 Dibromomethane	174	6.043	6.043	0.000	48	7770	1.00	0.8870	
63 1,4-Dioxane	88	6.079	6.055	0.024	3	3755	20.0	25.1	
65 Dichlorobromomethane	83	6.162	6.162	0.000	92	14567	1.00	1.05	
66 2-Nitropropane	41		6.375					ND	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	92	13056	2.00	1.86	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	89	12087	1.00	0.7110	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	92	74659	10.0	7.68	
70 Toluene	91	6.895	6.895	0.000	98	47973	1.00	1.10	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	48	9029	1.00	0.6156	
72 Ethyl methacrylate	69	7.156	7.156	0.000	40	10569	1.00	0.8126	
73 Tetrahydrothiophene	60		7.255					ND	
74 1,1,2-Trichloroethane	97	7.274	7.262	0.012	84	13369	1.00	1.40	
75 Tetrachloroethene	166	7.416	7.416	0.000	77	10190	1.00	1.06	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	83	21314	1.00	1.23	
77 2-Hexanone	43	7.487	7.487	0.000	93	56975	10.0	8.28	
78 n-Butyl acetate	43		7.605					ND	
79 Chlorodibromomethane	129	7.653	7.653	0.000	27	7407	1.00	0.7319	
80 Ethylene Dibromide	107	7.771	7.771	0.000	95	10824	1.00	1.07	
81 1-Chlorohexane	91		8.209					ND	
82 Chlorobenzene	112	8.256	8.244	0.012	95	33969	1.00	1.11	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	41	7535	1.00	0.7137	
84 Ethylbenzene	106	8.351	8.351	0.000	96	15570	1.00	1.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	94	19219	1.00	1.05	
86 o-Xylene	106	8.860	8.872	-0.012	86	21597	1.00	1.17	
87 Styrene	104	8.883	8.883	0.000	93	31709	1.00	1.03	
88 Bromoform	173	9.073	9.073	0.000	1	4246	1.00	0.5710	
89 Isopropylbenzene	105	9.238	9.238	0.000	93	41727	1.00	1.12	
90 Cyclohexanone	55		9.345					ND	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	83	14679	1.00	1.19	
92 Bromobenzene	156	9.570	9.570	0.000	89	16176	1.00	1.24	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	77	6335	1.00	1.40	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	1	369	1.00	0.1127	
95 N-Propylbenzene	120	9.653	9.664	-0.012	98	11650	1.00	1.20	
96 2-Chlorotoluene	126	9.759	9.759	0.000	96	10328	1.00	1.14	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	93	33579	1.00	1.19	
98 4-Chlorotoluene	126	9.877	9.866	0.011	97	10681	1.00	1.03	
99 tert-Butylbenzene	119	10.185	10.185	0.000	88	30738	1.00	1.24	
100 Pentachloroethane	167		10.209					ND	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	93	36020	1.00	1.14	
102 sec-Butylbenzene	105	10.422	10.422	0.000	92	41896	1.00	1.35	
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	96	25640	1.00	1.23	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	95	37807	1.00	1.30	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	73	29773	1.00	1.37	
106 1,2,3-Trimethylbenzene	105	10.682	10.682	0.000	32	11813		0.3405	
107 Benzyl chloride	91		10.777					ND	
108 n-Butylbenzene	91	11.001	11.001	0.000	95	34002	1.00	1.52	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	97	28279	1.00	1.28	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	1	2235	1.00	0.6680	
111 1,3,5-Trichlorobenzene	180	12.078	12.078	0.000	94	19313		1.38	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	89	21396	1.00	1.65	
113 Hexachlorobutadiene	225	12.918	12.918	0.000	92	9160	1.00	1.70	
114 Naphthalene	128	13.001	13.001	0.000	96	39942	1.00	1.13	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	91	18872	1.00	1.69	
116 2-Methylnaphthalene	142	14.374	14.374	0.000	93	199866		16.8	
119 Ethylene oxide	1		0.000					ND	
118 Propene oxide	1		0.000					ND	
123 Pentachloroethane TIC	1		0.000					ND	
120 1,4-Dichlorobutane	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
122 3-Ethyltoluene	1		0.000					ND	
117 2-Ethyltoluene	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	96				0		2.00	2.22	
S 125 1,3-Dichloropropene, Total	75				0		2.00	1.33	
S 126 Xylenes, Total	106				0		2.00	2.23	
S 127 Trihalomethanes, Total	1				0		4.00	3.45	
T 133 Chlorodifluoromethane TIC	51		1.650					ND	
T 128 1,3-Butadiene TIC	39	1.926	2.140	-0.214	80	20399		0	
T 129 Hexachloroethane TIC	166		10.910					ND	
T 130 Isobutylene TIC	1		0.000					ND	
T 131 1,3-Diethylbenzene TIC	1		0.000					ND	
T 132 Butyl Methacrylate TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VMRGAS_00098	Amount Added:	0.80	Units: uL	
VMAROLISTDW_00096	Amount Added:	0.80	Units: uL	
VMRPRIMW_00122	Amount Added:	0.80	Units: uL	
VMKETONE_00012	Amount Added:	3.20	Units: uL	
vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Apr-2015 18:41:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243876.D

Injection Date: 21-Apr-2015 17:36:30 Instrument ID: A3UX12 Operator ID: 001904

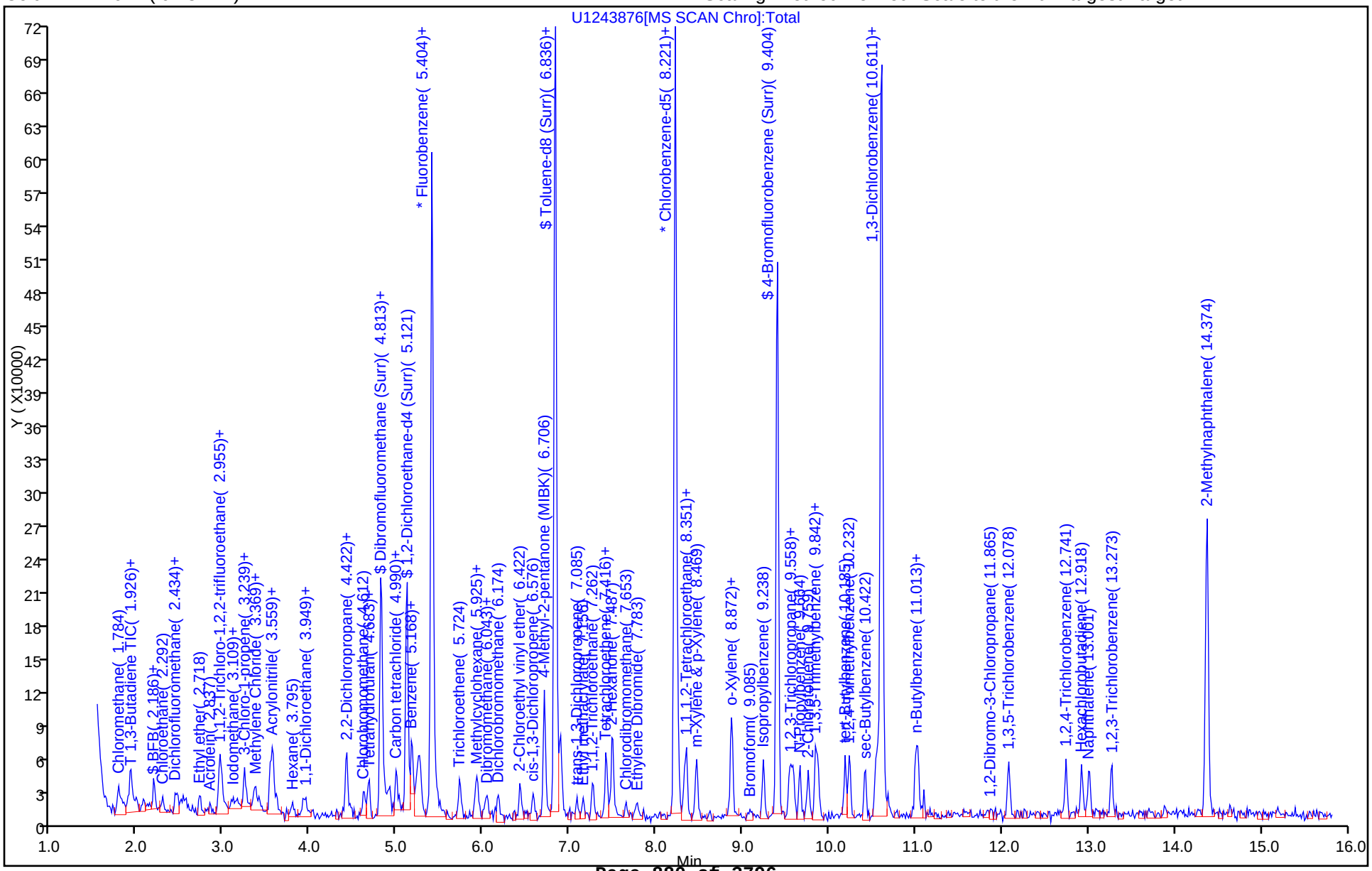
Lims ID: MRL Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260_12 Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177316/14

Matrix: Solid | Lab File ID: U1243884.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/21/2015 20:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 177316 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.00102		0.0010	0.00025	0.00019
107-06-2	1,2-Dichloroethane	0.00105		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.00805	J	0.010	0.00050	0.00057
71-43-2	Benzene	0.00105		0.0010	0.00025	0.00013
56-23-5	Carbon tetrachloride	0.00105		0.0010	0.00025	0.00013
108-90-7	Chlorobenzene	0.00113		0.0010	0.00025	0.00015
127-18-4	Tetrachloroethene	0.00135	^	0.0010	0.00050	0.00029
79-01-6	Trichloroethene	0.00110		0.0010	0.00025	0.00017
75-01-4	Vinyl chloride	0.000875	J	0.0010	0.00025	0.00022
67-66-3	Chloroform	0.00114		0.0010	0.00025	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		50-150
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-150
460-00-4	4-Bromofluorobenzene (Surr)	80		50-150
1868-53-7	Dibromofluoromethane (Surr)	91		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243884.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 20:48:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-014
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 21:30:07 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 21:30:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	704959	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	82	562524	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	94	268859	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	94	160487	16.5	15.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.109	0.011	88	182312	16.5	14.6	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	603357	16.5	14.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	93	212237	16.5	13.3	
$ 8 BFB	95	4.623	3.745	0.878	0	3538		NR	
9 Dichlorodifluoromethane	85	1.642	1.642	0.000	39	17400	1.00	1.26	
10 Chloromethane	50	1.784	1.784	0.000	98	17982	1.00	1.08	
11 Vinyl chloride	62	1.914	1.902	0.012	37	15263	1.00	0.8753	
12 Butadiene	54	1.914	1.914	0.000	92	17320	NC	NC	
13 Bromomethane	94	2.186	2.186	0.000	90	14101	1.00	1.13	
14 Chloroethane	64	2.281	2.281	0.000	68	14684	1.00	1.22	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	93	29302	1.00	1.23	
16 Trichlorofluoromethane	101	2.529	2.505	0.024	60	24023	1.00	1.50	
17 Ethyl ether	59	2.718	2.718	0.000	65	8637	1.00	0.99	
18 Acrolein	56	2.837	2.837	0.000	75	7934	5.00	15.0	
19 Methylal	45		2.856					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.943	0.000	74	15512	1.00	1.49	
22 1,1-Dichloroethene	61	2.943	2.943	0.000	92	20770	1.00	1.02	
21 Acetone	43	2.967	2.967	0.000	96	32117	10.0	6.90	
23 Iodomethane	142	3.109	3.097	0.012	97	28042	1.00	1.22	
24 Carbon disulfide	76	3.168	3.156	0.012	82	19953	1.00	0.7836	
25 Acetonitrile	41		3.203					ND	
26 Methyl acetate	43	3.239	3.239	0.000	97	39252	5.00	4.63	
27 3-Chloro-1-propene	41	3.239	3.286	-0.047	39	16353	1.00	1.42	
28 Methylene Chloride	49	3.369	3.357	0.012	87	21811	1.00	1.14	
29 2-Methyl-2-propanol	59	3.417	3.405	0.011	74	10517	10.0	7.96	
30 Acrylonitrile	53	3.535	3.535	0.000	99	47496	10.0	11.0	
32 Methyl tert-butyl ether	73	3.570	3.559	0.011	74	32289	1.00	0.9154	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	41	15363	1.00	1.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57	3.795	3.795	0.000	68	6052	1.00	0.9277	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	93	19353	1.00	1.05	
35 Vinyl acetate	43	3.949	3.949	0.000	78	8958	0.9600	0.8713	
36 Isopropyl ether	87		3.973					ND	
37 2-Chloro-1,3-butadiene	53		3.996					ND	
38 Tert-butyl ethyl ether	59		4.268					ND	
39 cis-1,2-Dichloroethene	61	4.410	4.411	-0.001	64	17074	1.00	1.09	
40 2-Butanone (MEK)	43	4.422	4.411	0.011	96	42126	10.0	8.05	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	44	6888	1.00	0.7543	
42 Ethyl acetate	43		4.458					ND	
43 Propionitrile	54		4.470					ND	
44 Methacrylonitrile	41		4.600					ND	
45 Chlorobromomethane	49	4.612	4.624	-0.012	38	9073	1.00	1.09	
46 Tetrahydrofuran	42	4.659	4.659	0.000	69	6389	2.00	0.8667	
47 Chloroform	83	4.683	4.671	0.012	89	21590	1.00	1.14	
48 1,1,1-Trichloroethane	97	4.860	4.848	0.012	61	12024	1.00	0.8597	
49 Cyclohexane	84	4.907	4.919	-0.012	48	15212	1.00	1.26	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	90	17967	1.00	1.43	
51 Carbon tetrachloride	117	5.002	5.002	0.000	56	13387	1.00	1.05	
52 Isobutyl alcohol	41	5.061	5.050	0.011	22	3915	25.0	11.0	
53 Benzene	78	5.180	5.168	0.012	92	46761	1.00	1.05	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	61	16304	1.00	1.05	
55 Tert-amyl methyl ether	73		5.251					ND	
56 n-Heptane	100	5.369	5.381	-0.012	86	6521	1.00	3.66	
57 n-Butanol	56		5.629					ND	
58 Trichloroethene	130	5.724	5.724	0.000	87	13275	1.00	1.10	
59 Ethyl acrylate	55		5.795					ND	
60 Methylcyclohexane	83	5.925	5.913	0.012	78	15414	1.00	1.61	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	81	12735	1.00	1.22	
62 Methyl methacrylate	41	5.925	6.008	-0.083	68	13069		1.39	
64 Dibromomethane	174	6.043	6.043	0.000	66	9691	1.00	1.03	
63 1,4-Dioxane	88	6.067	6.055	0.012	1	4775	20.0	29.8	
65 Dichlorobromomethane	83	6.162	6.162	0.000	64	11431	1.00	0.7655	
66 2-Nitropropane	41		6.375					ND	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	86	14451	2.00	1.92	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	92	13393	1.00	0.7341	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	96	82564	10.0	7.91	
70 Toluene	91	6.895	6.895	0.000	98	52088	1.00	1.09	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	53	8524	1.00	0.5285	
72 Ethyl methacrylate	69	7.144	7.156	-0.012	31	8273	1.00	0.5784	
73 Tetrahydrothiophene	60		7.255					ND	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	85	10527	1.00	1.00	
75 Tetrachloroethene	166	7.416	7.416	0.000	87	14231	1.00	1.35	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	85	20694	1.00	1.09	
77 2-Hexanone	43	7.499	7.487	0.012	92	53986	10.0	7.13	
78 n-Butyl acetate	43		7.605					ND	
79 Chlorodibromomethane	129	7.653	7.653	0.000	5	9327	1.00	0.8381	
80 Ethylene Dibromide	107	7.771	7.771	0.000	95	12355	1.00	1.12	
81 1-Chlorohexane	91		8.209					ND	
82 Chlorobenzene	112	8.244	8.244	0.000	96	38000	1.00	1.13	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	84	8573	1.00	0.7384	
84 Ethylbenzene	106	8.351	8.351	0.000	96	19443	1.00	1.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	93	20300	1.00	1.01	
86 o-Xylene	106	8.871	8.872	-0.001	92	18622	1.00	0.9205	
87 Styrene	104	8.883	8.883	0.000	89	31378	1.00	0.9298	
88 Bromoform	173	9.084	9.073	0.011	31	4589	1.00	0.5612	
89 Isopropylbenzene	105	9.238	9.238	0.000	94	51786	1.00	1.27	
90 Cyclohexanone	55		9.345					ND	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	58	13771	1.00	1.02	
92 Bromobenzene	156	9.558	9.570	-0.012	89	16366	1.00	1.15	
93 1,2,3-Trichloropropane	110	9.581	9.593	-0.012	45	6444	1.00	1.30	
94 trans-1,4-Dichloro-2-buten	53		9.593				ND	ND	
95 N-Propylbenzene	120	9.664	9.664	0.000	97	12280	1.00	1.15	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	15347	1.00	1.54	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	92	44726	1.00	1.45	
98 4-Chlorotoluene	126	9.865	9.866	-0.001	94	12908	1.00	1.14	
99 tert-Butylbenzene	119	10.185	10.185	0.000	88	42332	1.00	1.56	
100 Pentachloroethane	167		10.209					ND	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	95	49276	1.00	1.42	
102 sec-Butylbenzene	105	10.422	10.422	0.000	91	63256	1.00	1.86	
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	95	30622	1.00	1.34	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	96	56674	1.00	1.77	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	57	32556	1.00	1.37	
106 1,2,3-Trimethylbenzene	105		10.682					ND	
107 Benzyl chloride	91		10.777					ND	
108 n-Butylbenzene	91	11.001	11.001	0.000	95	48508	1.00	1.98	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	97	34043	1.00	1.41	
110 1,2-Dibromo-3-Chloropropan	157	11.842	11.853	-0.011	1	2434	1.00	0.6651	
111 1,3,5-Trichlorobenzene	180		12.078					ND	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	90	35095	1.00	2.47	
113 Hexachlorobutadiene	225	12.918	12.918	0.000	85	14213	1.00	2.41	
114 Naphthalene	128	13.001	13.001	0.000	96	87989	1.00	2.28	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	94	39776	1.00	3.26	
116 2-Methylnaphthalene	142		14.374					ND	
123 Pentachloroethane TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
117 2-Ethyltoluene	1		0.000					ND	
122 3-Ethyltoluene	1		0.000					ND	
120 1,4-Dichlorobutane	1		0.000					ND	
118 Propene oxide	1		0.000					ND	
119 Ethylene oxide	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	96				0		2.00	2.13	
S 125 1,3-Dichloropropene, Total	75				0		2.00	1.26	
S 126 Xylenes, Total	106				0		2.00	1.93	
S 127 Trihalomethanes, Total	1				0		4.00	3.30	
T 133 Chlorodifluoromethane TIC	51		1.650					ND	
T 128 1,3-Butadiene TIC	39	1.914	2.140	-0.226	80	17320		0	
T 129 Hexachloroethane TIC	166		10.910					ND	
T 132 Butyl Methacrylate TIC	1		0.000					ND	
T 131 1,3-Diethylbenzene TIC	1		0.000					ND	
T 130 Isobutylene TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

VMRGAS_00098	Amount Added:	0.80	Units: uL	
VMAROLISTDW_00096	Amount Added:	0.80	Units: uL	
VMRPRIMW_00122	Amount Added:	0.80	Units: uL	
VMKETONE_00012	Amount Added:	3.20	Units: uL	
vm100ss_stk_00019	Amount Added:	0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added:	1.00	Units: uL	Run Reagent

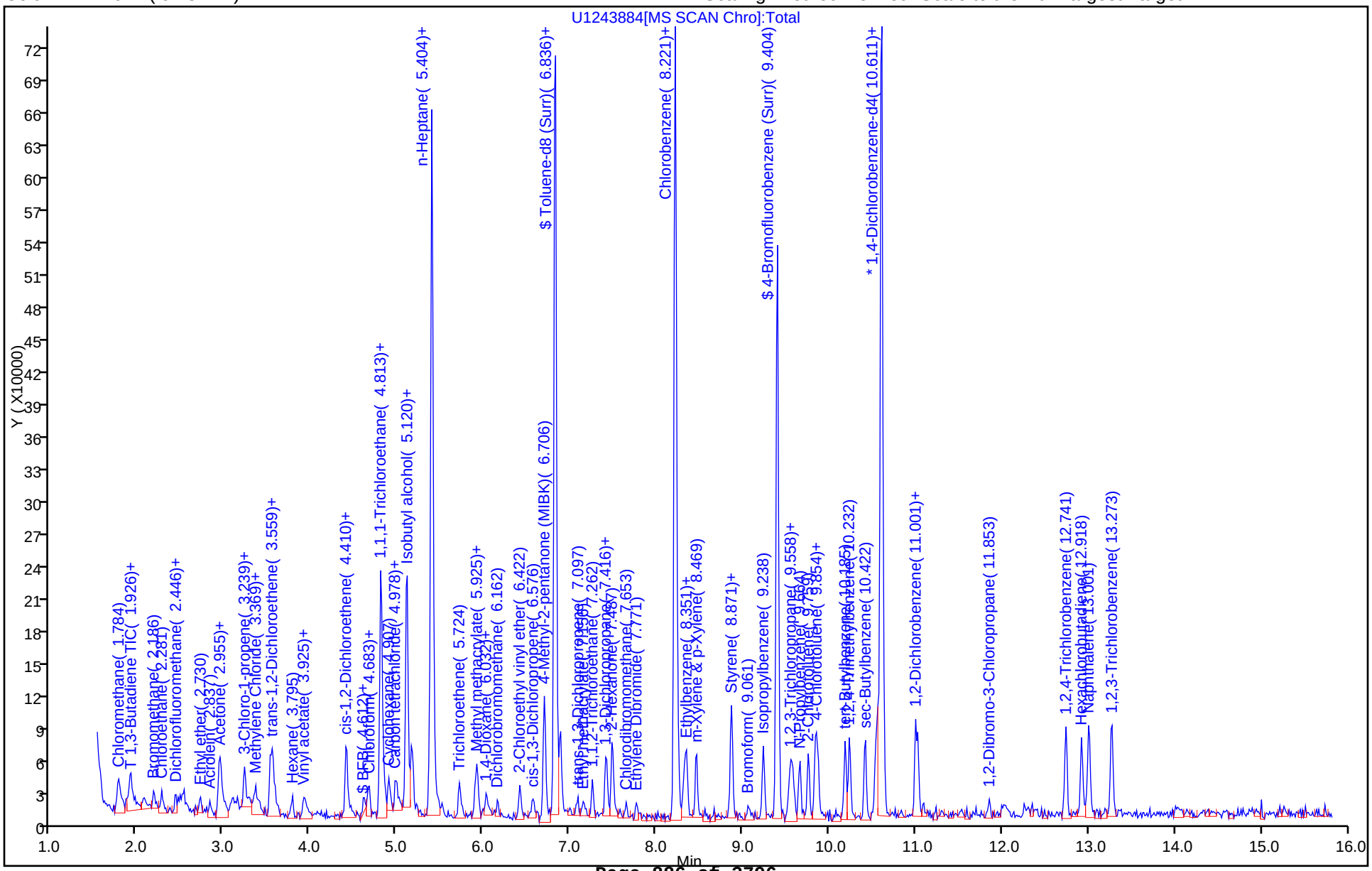
Report Date: 21-Apr-2015 21:30:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243884.D

Injection Date:	21-Apr-2015 20:48:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	MRL			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW MS | Lab Sample ID: 240-49236-2 MS

Matrix: Water (TCLP) | Lab File ID: U1243882.D

Analysis Method: 8260B | Date Collected: 04/10/2015 08:30

Sample wt/vol: 0.2(mL) | Date Analyzed: 04/21/2015 19:59

Soil Aliquot Vol: 0.2 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 177316 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.574		0.025	0.013	0.0095
107-06-2	1,2-Dichloroethane	0.455		0.025	0.013	0.011
78-93-3	2-Butanone (MEK)	0.923		0.25	0.025	0.029
71-43-2	Benzene	0.459		0.025	0.013	0.0065
56-23-5	Carbon tetrachloride	0.338		0.025	0.013	0.0065
108-90-7	Chlorobenzene	0.467		0.025	0.013	0.0075
127-18-4	Tetrachloroethene	0.477		0.025	0.025	0.015
79-01-6	Trichloroethene	0.515		0.025	0.013	0.0085
75-01-4	Vinyl chloride	0.508		0.025	0.013	0.011
67-66-3	Chloroform	0.470		0.025	0.013	0.0080

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		80-121
460-00-4	4-Bromofluorobenzene (Surr)	92		70-124
1868-53-7	Dibromofluoromethane (Surr)	99		84-128

Report Date: 21-Apr-2015 20:22:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243882.D
Lims ID: 240-49236-F-2-E MS
Client ID:
Sample Type: MS
Inject. Date: 21-Apr-2015 19:59:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-012
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 18:16:29 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 20:22:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	679290	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	82	534328	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	91	253943	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	93	168296	16.5	16.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.109	0.000	87	173528	16.5	14.4	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	639704	16.5	16.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	92	229711	16.5	15.1	
11 Vinyl chloride	62	1.902	1.902	0.000	98	341107	20.0	20.3	
22 1,1-Dichloroethene	61	2.967	2.943	0.024	96	452468	20.0	23.0	
40 2-Butanone (MEK)	43	4.422	4.411	0.011	94	172852	40.0	36.9	
47 Chloroform	83	4.683	4.671	0.012	93	343575	20.0	18.8	
51 Carbon tetrachloride	117	5.002	5.002	0.000	95	166744	20.0	13.5	
53 Benzene	78	5.168	5.168	0.000	95	791714	20.0	18.4	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	96	271434	20.0	18.2	
58 Trichloroethene	130	5.724	5.724	0.000	91	239648	20.0	20.6	
75 Tetrachloroethene	166	7.416	7.416	0.000	95	190925	20.0	19.1	
82 Chlorobenzene	112	8.244	8.244	0.000	97	594735	20.0	18.7	

Reagents:

VMFASGW_00091	Amount Added: 16.00	Units: uL	
VMFASPW_00095	Amount Added: 16.00	Units: uL	
vm100ss_stk_00019	Amount Added: 0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added: 0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added: 1.00	Units: uL	Run Reagent

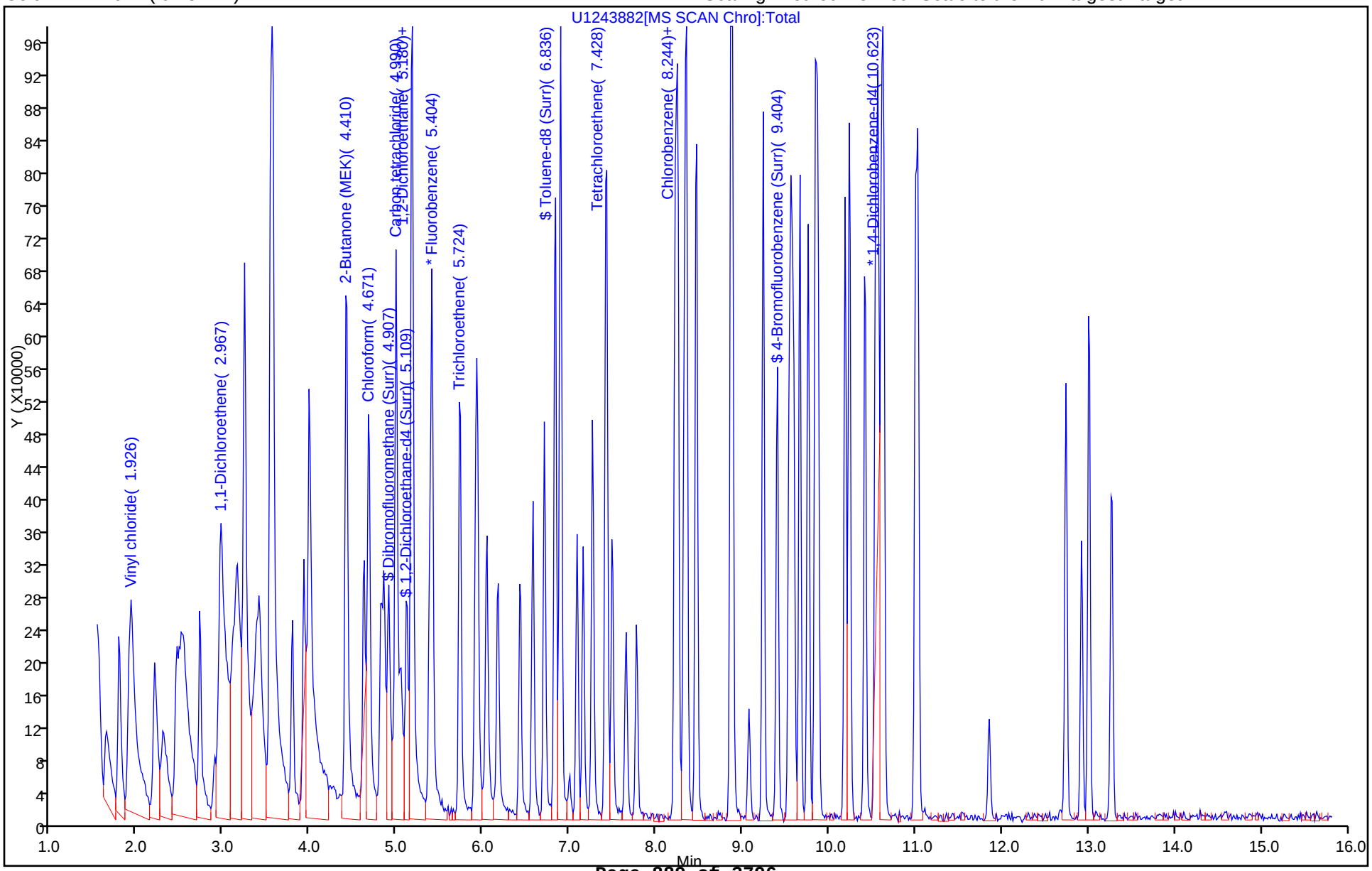
Report Date: 21-Apr-2015 20:22:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243882.D

Injection Date:	21-Apr-2015 19:59:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-49236-F-2-E MS			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW MSD Lab Sample ID: 240-49236-2 MSD

Matrix: Water (TCLP) Lab File ID: U1243883.D

Analysis Method: 8260B Date Collected: 04/10/2015 08:30

Sample wt/vol: 0.2(mL) Date Analyzed: 04/21/2015 20:23

Soil Aliquot Vol: 0.2 (mL) Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 177316 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-35-4	1,1-Dichloroethene	0.660		0.025	0.013	0.0095
107-06-2	1,2-Dichloroethane	0.471		0.025	0.013	0.011
78-93-3	2-Butanone (MEK)	0.990		0.25	0.025	0.029
71-43-2	Benzene	0.489		0.025	0.013	0.0065
56-23-5	Carbon tetrachloride	0.380		0.025	0.013	0.0065
108-90-7	Chlorobenzene	0.494		0.025	0.013	0.0075
127-18-4	Tetrachloroethene	0.480		0.025	0.025	0.015
79-01-6	Trichloroethene	0.547		0.025	0.013	0.0085
75-01-4	Vinyl chloride	0.541		0.025	0.013	0.011
67-66-3	Chloroform	0.501		0.025	0.013	0.0080

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-121
460-00-4	4-Bromofluorobenzene (Surr)	88		70-124
1868-53-7	Dibromofluoromethane (Surr)	98		84-128

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243883.D
Lims ID: 240-49236-F-2-E MSD
Client ID:
Sample Type: MSD
Inject. Date: 21-Apr-2015 20:23:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042790-013
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\8260_12.m
Limit Group: MSV 8260DOD ICAL
Last Update: 21-Apr-2015 18:40:54 Calib Date: 28-Feb-2015 17:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20150227-40877.b\U1243095.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: laveyt Date: 21-Apr-2015 20:56:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.405	5.404	0.001	99	624840	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	82	509057	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.000	93	236727	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.825	4.813	0.012	93	152965	16.5	16.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.121	5.109	0.012	90	180790	16.5	16.3	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	92	601777	16.5	15.8	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	93	209422	16.5	14.5	
11 Vinyl chloride	62	1.902	1.902	0.000	97	334315	20.0	21.6	
22 1,1-Dichloroethene	61	2.955	2.943	0.012	97	478476	20.0	26.4	
40 2-Butanone (MEK)	43	4.422	4.411	0.011	96	170385	40.0	39.6	
47 Chloroform	83	4.683	4.671	0.012	92	337163	20.0	20.1	
51 Carbon tetrachloride	117	5.002	5.002	0.000	94	172232	20.0	15.2	
53 Benzene	78	5.180	5.168	0.012	95	775420	20.0	19.6	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	96	258928	20.0	18.9	
58 Trichloroethene	130	5.736	5.724	0.012	93	234470	20.0	21.9	
75 Tetrachloroethene	166	7.416	7.416	0.000	95	183010	20.0	19.2	
82 Chlorobenzene	112	8.244	8.244	0.000	98	599783	20.0	19.8	

Reagents:

VMFASGW_00091	Amount Added: 16.00	Units: uL	
VMFASPW_00095	Amount Added: 16.00	Units: uL	
vm100ss_stk_00019	Amount Added: 0.83	Units: uL	Run Reagent
vmDist_H2o_00046	Amount Added: 0.00	Units:	Run Reagent
vm100is_stk_00022	Amount Added: 1.00	Units: uL	Run Reagent

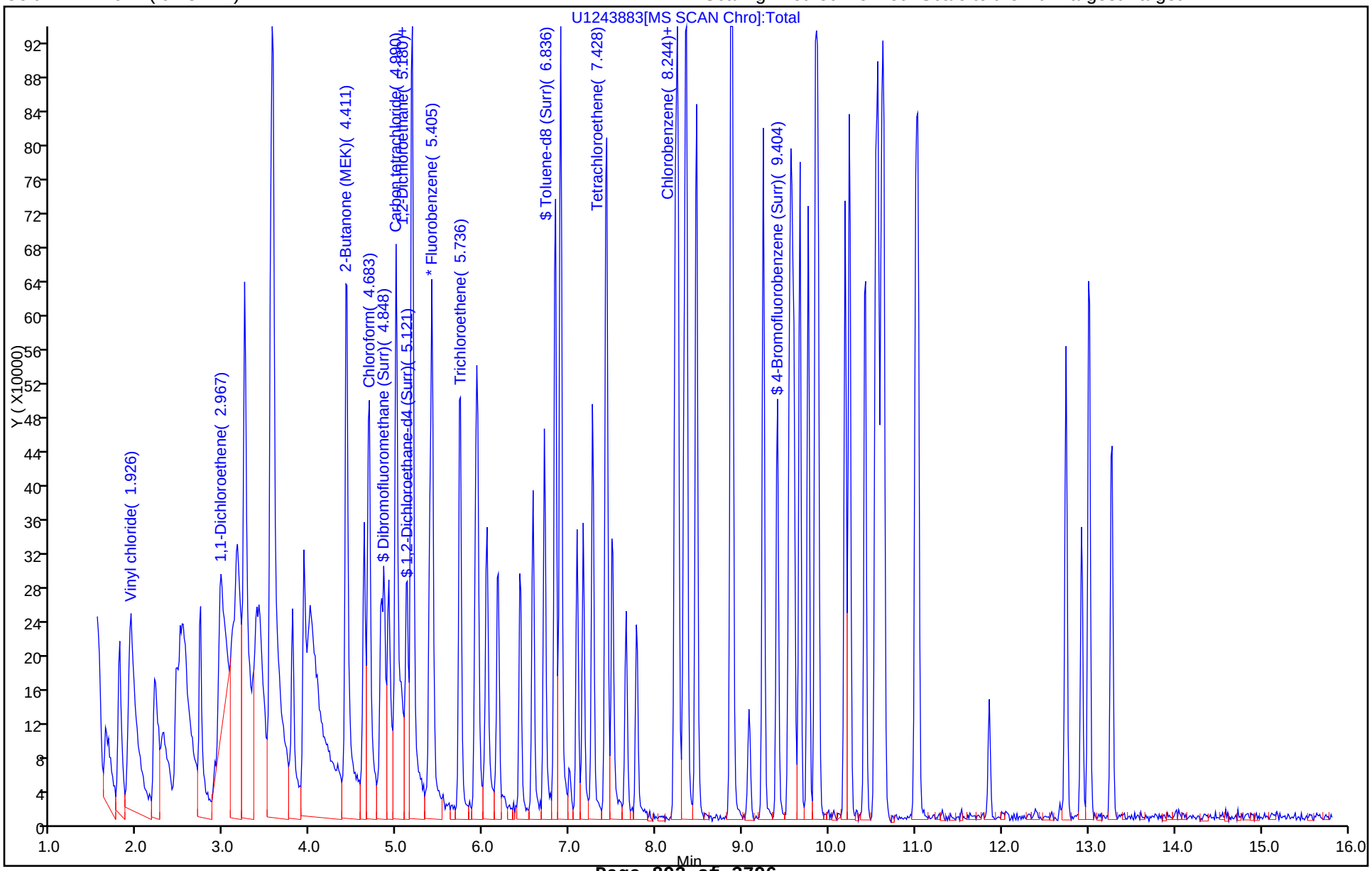
Report Date: 21-Apr-2015 20:56:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20150421-42790.b\U1243883.D

Injection Date:	21-Apr-2015 20:23:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-49236-F-2-E MSD			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_12	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A3UX12 Start Date: 02/28/2015 12:17

Analysis Batch Number: 170010 End Date: 02/28/2015 20:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-170010/1		02/28/2015 12:17	1	BFB2872.D	DB-624 0.18(mm)
STD8260 240-170010/3 IC		02/28/2015 12:41	1	U1243083.D	DB-624 0.18(mm)
STD8260 240-170010/4 IC		02/28/2015 13:05	1	U1243084.D	DB-624 0.18(mm)
STD8260 240-170010/5 IC		02/28/2015 13:30	1	U1243085.D	DB-624 0.18(mm)
STD8260 240-170010/6 ICIS		02/28/2015 13:55	1	U1243086.D	DB-624 0.18(mm)
STD8260 240-170010/7 IC		02/28/2015 14:19	1	U1243087.D	DB-624 0.18(mm)
STD8260 240-170010/8 IC		02/28/2015 14:44	1	U1243088.D	DB-624 0.18(mm)
STDA9 240-170010/10 IC		02/28/2015 15:33	1		DB-624 0.18(mm)
STDA9 240-170010/11 IC		02/28/2015 15:57	1		DB-624 0.18(mm)
STDA9 240-170010/12 IC		02/28/2015 16:22	1		DB-624 0.18(mm)
STDA9 240-170010/13 IC		02/28/2015 16:47	1		DB-624 0.18(mm)
STDA9 240-170010/14 IC		02/28/2015 17:11	1		DB-624 0.18(mm)
STDA9 240-170010/15 IC		02/28/2015 17:36	1		DB-624 0.18(mm)
ICV 240-170010/16		02/28/2015 18:00	1	U1243096.D	DB-624 0.18(mm)
ICV 240-170010/17		02/28/2015 18:25	1	U1243097.D	DB-624 0.18(mm)
ZZZZZ		02/28/2015 20:50	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A3UX16 Start Date: 04/08/2015 12:22

Analysis Batch Number: 175604 End Date: 04/08/2015 17:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-175604/1		04/08/2015 12:22	1	BFB4271.D	DB-624 0.18(mm)
STD8260 240-175604/2 IC		04/08/2015 12:59	1	UXM7066.D	DB-624 0.18(mm)
STD8260 240-175604/3 IC		04/08/2015 13:22	1	UXM7067.D	DB-624 0.18(mm)
STD8260 240-175604/4 ICIS		04/08/2015 13:44	1	UXM7068.D	DB-624 0.18(mm)
STD8260 240-175604/5 IC		04/08/2015 14:07	1	UXM7069.D	DB-624 0.18(mm)
STD8260 240-175604/6 IC		04/08/2015 14:30	1	UXM7070.D	DB-624 0.18(mm)
STD8260 240-175604/7 IC		04/08/2015 14:53	1	UXM7071.D	DB-624 0.18(mm)
ICV 240-175604/8		04/08/2015 15:15	1	UXM7072.D	DB-624 0.18(mm)
STDA9 240-175604/9 IC		04/08/2015 15:38	1		DB-624 0.18(mm)
STDA9 240-175604/10 IC		04/08/2015 16:01	1		DB-624 0.18(mm)
STDA9 240-175604/11 IC		04/08/2015 16:24	1		DB-624 0.18(mm)
STDA9 240-175604/12 IC		04/08/2015 16:46	1		DB-624 0.18(mm)
STDA9 240-175604/13 IC		04/08/2015 17:09	1		DB-624 0.18(mm)
STDA9 240-175604/14 IC		04/08/2015 17:32	1		DB-624 0.18(mm)
ICV 240-175604/15		04/08/2015 17:55	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A3UX16 Start Date: 04/14/2015 07:39

Analysis Batch Number: 176298 End Date: 04/14/2015 13:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-176298/1		04/14/2015 07:39	1	BFB4274.D	DB-624 0.18(mm)
CCV 240-176298/2		04/14/2015 08:07	1	UXM7134.D	DB-624 0.18(mm)
CCV 240-176298/3		04/14/2015 08:30	1	UXM7135.D	DB-624 0.18(mm)
LCS 240-176298/4		04/14/2015 08:52	1	UXM7136.D	DB-624 0.18(mm)
MRL 240-176298/5		04/14/2015 09:15	1	UXM7137.D	DB-624 0.18(mm)
MB 240-176298/6		04/14/2015 09:38	1	UXM7138.D	DB-624 0.18(mm)
ZZZZZ		04/14/2015 10:47	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 11:42	1		DB-624 0.18(mm)
240-49236-3	079SB-0385-0001-SW	04/14/2015 12:04	1	UXM7144.D	DB-624 0.18(mm)
240-49236-5	079SB-0387-0001-RB	04/14/2015 12:27	1	UXM7145.D	DB-624 0.18(mm)
240-49236-6	079SB-0388-0001-TB	04/14/2015 12:50	1	UXM7146.D	DB-624 0.18(mm)
MRL 240-176298/15		04/14/2015 13:13	1	UXM7147.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A3UX12 Start Date: 04/21/2015 16:00

Analysis Batch Number: 177316 End Date: 04/21/2015 21:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-177316/2		04/21/2015 16:00	1	BFB2920.D	DB-624 0.18(mm)
CCV 240-177316/3		04/21/2015 16:23	1	U1243873.D	DB-624 0.18(mm)
CCV 240-177316/4		04/21/2015 17:11	1		DB-624 0.18(mm)
MRL 240-177316/7		04/21/2015 17:36	1	U1243876.D	DB-624 0.18(mm)
LB 240-176667/1-A MB		04/21/2015 18:23	1	U1243878.D	DB-624 0.18(mm)
LCS 240-177316/9		04/21/2015 18:47	1	U1243879.D	DB-624 0.18(mm)
240-49236-1	079SB-0383-0001-IDW	04/21/2015 19:11	1	U1243880.D	DB-624 0.18(mm)
240-49236-2	079SB-0384-0001-IDW	04/21/2015 19:36	1	U1243881.D	DB-624 0.18(mm)
240-49236-2 MS	079SB-0384-0001-IDW MS	04/21/2015 19:59	1	U1243882.D	DB-624 0.18(mm)
240-49236-2 MSD	079SB-0384-0001-IDW MSD	04/21/2015 20:23	1	U1243883.D	DB-624 0.18(mm)
MRL 240-177316/14		04/21/2015 20:48	1	U1243884.D	DB-624 0.18(mm)
MDLV 240-177316/15		04/21/2015 21:13	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176667 Batch Start Date: 04/15/15 18:45 Batch Analyst: Jones, Diane

Batch Method: 1311 Batch End Date: 04/16/15 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXTCLPBUFF1 00469	EXZHEFILTERS 00010				
240-49236-B-1	079SB-0383-0001-IDW	1311, 8260B	P	1 mL	1				
240-49236-F-2	079SB-0384-0001-IDW	1311, 8260B	P	1 mL	1				

Batch Notes	
Tumbler Rotations per Minute	G = 29rpm

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270C DOD

Semivolatile Compounds (GC/MS) by Method 8270/DOD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
079SB-0383-0001-ID W	240-49236-1	60	74	78	81	84	85
	MB 240-176654/8-A	46	74	82	87	71	84
	LCS 240-176654/9-A	33	70	86	85	97	83

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-110
PHL = Phenol-d5 (Surr)	10-110
NBZ = Nitrobenzene-d5 (Surr)	29-111
FBP = 2-Fluorobiphenyl (Surr)	22-110
TBP = 2,4,6-Tribromophenol (Surr)	17-117
TPH = Terphenyl-d14 (Surr)	40-119

Column to be used to flag recovery values

FORM II 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
079SB-0385-0001-SW	240-49236-3	75	74	69	74	87	53
	MB 240-176086/2-A	80	80	75	78	86	80
	LCS 240-176086/3-A	70	67	70	69	83	70

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	20-110
PHL = Phenol-d5 (Surr)	10-115
NBZ = Nitrobenzene-d5 (Surr)	40-110
FBP = 2-Fluorobiphenyl (Surr)	50-110
TBP = 2,4,6-Tribromophenol (Surr)	40-125
TPH = Terphenyl-d14 (Surr)	50-135

Column to be used to flag recovery values

FORM II 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
	MRL 240-177779/3	107	99	97	94	108	98
	MRL 240-177779/17	101	96	95	95	113	98

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	50-150
PHL = Phenol-d5 (Surr)	50-150
NBZ = Nitrobenzene-d5 (Surr)	50-150
FBP = 2-Fluorobiphenyl (Surr)	70-130
TBP = 2,4,6-Tribromophenol (Surr)	50-150
TPH = Terphenyl-d14 (Surr)	50-150

Column to be used to flag recovery values

FORM II 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water (TCLP) Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
079SB-0384-0001-ID W	240-49236-2	19	68	72	85	96	80

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-110
PHL = Phenol-d5 (Surr)	10-110
NBZ = Nitrobenzene-d5 (Surr)	29-111
FBP = 2-Fluorobiphenyl (Surr)	22-110
TBP = 2,4,6-Tribromophenol (Surr)	17-117
TPH = Terphenyl-d14 (Surr)	40-119

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50424006.D

Lab ID: LCS 240-176086/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	20.0	14.7	73	45-110	
Acenaphthylene	20.0	14.1	70	50-105	
Anthracene	20.0	15.1	75	55-110	
Benzo[a]anthracene	20.0	14.6	73	55-110	
Benzo[a]pyrene	20.0	13.4	67	55-110	
Benzo[b]fluoranthene	20.0	14.7	74	45-120	
Benzo[g,h,i]perylene	20.0	14.2	71	40-125	
Benzoic acid	40.0	13.5 J	34	0-125	M
Benzo[k]fluoranthene	20.0	15.3	77	45-125	
Benzyl alcohol	20.0	13.5	67	30-110	
Bis(2-chloroethoxy)methane	20.0	15.5	77	45-105	
Bis(2-chloroethyl)ether	20.0	14.5	72	35-110	
bis (2-chloroisopropyl) ether	20.0	15.5	78	25-130	
Bis(2-ethylhexyl) phthalate	20.0	14.6	73	40-125	
4-Bromophenyl phenyl ether	20.0	17.1	86	50-115	
Butyl benzyl phthalate	20.0	15.1	76	45-115	
Carbazole	20.0	16.5	83	50-115	
4-Chloroaniline	20.0	13.8	69	15-110	
4-Chloro-3-methylphenol	20.0	15.3	77	45-110	
2-Chloronaphthalene	20.0	14.2	71	50-105	
2-Chlorophenol	20.0	14.2	71	35-105	
4-Chlorophenyl phenyl ether	20.0	15.4	77	50-110	
Chrysene	20.0	15.8	79	55-110	
Dibenz(a,h)anthracene	20.0	14.5	73	40-125	
Dibenzofuran	20.0	15.1	75	55-105	
1,2-Dichlorobenzene	20.0	13.6	68	35-100	
1,3-Dichlorobenzene	20.0	12.9	64	30-100	
1,4-Dichlorobenzene	20.0	13.4	67	30-100	
3,3'-Dichlorobenzidine	40.0	29.7	74	20-110	
2,4-Dichlorophenol	20.0	14.9	74	50-105	
Diethyl phthalate	20.0	16.0	80	40-120	
2,4-Dimethylphenol	20.0	11.6	58	30-110	
Dimethyl phthalate	20.0	16.1	81	25-125	
Di-n-butyl phthalate	20.0	18.0	90	55-115	
4,6-Dinitro-2-methylphenol	40.0	29.2	73	40-130	
2,4-Dinitrophenol	40.0	26.0	65	15-140	
2,4-Dinitrotoluene	20.0	16.2	81	50-120	
2,6-Dinitrotoluene	20.0	15.6	78	50-115	
Di-n-octyl phthalate	20.0	13.7	69	35-135	
Fluoranthene	20.0	16.8	84	55-115	
Fluorene	20.0	15.0	75	50-110	
Hexachlorobenzene	20.0	16.1	81	50-110	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50424006.D

Lab ID: LCS 240-176086/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	20.0	12.9	65	25-105	
Hexachlorocyclopentadiene	20.0	0.839 J	4	4-110	
Hexachloroethane	20.0	13.4	67	30-95	
Indeno[1,2,3-cd]pyrene	20.0	14.0	70	45-125	
Isophorone	20.0	14.5	72	50-110	
2-Methylnaphthalene	20.0	13.8	69	45-105	
2-Methylphenol	20.0	13.7	68	40-110	
3 & 4 Methylphenol	20.0	14.1	71	30-110	
Naphthalene	20.0	13.8	69	40-100	
2-Nitroaniline	20.0	15.7	78	50-115	
3-Nitroaniline	20.0	16.9	84	20-125	
4-Nitroaniline	20.0	16.4	82	35-120	
Nitrobenzene	20.0	14.4	72	45-110	
2-Nitrophenol	20.0	14.6	73	40-115	
4-Nitrophenol	40.0	32.2	80	0-125	
N-Nitrosodi-n-propylamine	20.0	14.5	72	35-130	
N-Nitrosodiphenylamine	40.0	33.0	83	50-110	
Pentachlorophenol	40.0	28.5	71	40-115	
Phenanthrene	20.0	15.2	76	50-115	
Phenol	20.0	14.2	71	0-115	
Pyrene	20.0	15.6	78	50-130	
1,2,4-Trichlorobenzene	20.0	13.5	68	35-105	
2,4,5-Trichlorophenol	20.0	15.3	77	50-110	
2,4,6-Trichlorophenol	20.0	14.5	73	50-115	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50424008.D

Lab ID: LCS 240-176654/9-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Pyridine	0.0800	0.0583	73	10-110	
1,4-Dichlorobenzene	0.0800	0.0633	79	16-110	
2,4-Dinitrotoluene	0.0800	0.0758	95	45-126	
Hexachlorobenzene	0.0800	0.0713	89	47-116	
Hexachlorobutadiene	0.0800	0.0619	77	10-110	
Hexachloroethane	0.0800	0.0620	78	10-110	
2-Methylphenol	0.0800	0.0627	78	24-110	
3 & 4 Methylphenol	0.0800	0.0651	81	27-110	
Nitrobenzene	0.0800	0.0686	86	35-117	
Pentachlorophenol	0.160	0.115	72	12-110	
2,4,5-Trichlorophenol	0.0800	0.0674	84	35-111	
2,4,6-Trichlorophenol	0.0800	0.0675	84	32-110	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50424003.D

Lab ID: MRL 240-177779/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.82	96	70-130	
Acenaphthylene	5.00	4.81	96	70-130	
Anthracene	5.00	4.99	100	70-130	
Benzo[a]anthracene	5.00	4.92	98	70-130	
Benzo[a]pyrene	5.00	4.91	98	70-130	
Benzo[b]fluoranthene	5.00	4.62	92	70-130	
Benzo[g,h,i]perylene	5.00	4.94	99	70-130	
Benzoic acid	10.0	9.82	98	70-130	
Benzo[k]fluoranthene	5.00	5.27	105	70-130	
Benzyl alcohol	5.00	5.12	102	70-130	
Bis(2-chloroethoxy)methane	5.00	5.02	100	70-130	
Bis(2-chloroethyl)ether	5.00	4.93	99	70-130	
bis (2-chloroisopropyl) ether	5.00	5.36	107	70-130	
Bis(2-ethylhexyl) phthalate	5.00	4.95	99	70-130	
4-Bromophenyl phenyl ether	5.00	5.51	110	70-130	
Butyl benzyl phthalate	5.00	4.76	95	70-130	
Carbazole	5.00	5.16	103	70-130	
4-Chloroaniline	5.00	4.85	97	70-130	M
Pyridine	5.00	4.95	99	70-130	
4-Chloro-3-methylphenol	5.00	5.12	102	70-130	
2-Chloronaphthalene	5.00	4.87	97	70-130	
2-Chlorophenol	5.00	5.07	101	70-130	
4-Chlorophenyl phenyl ether	5.00	5.04	101	70-130	
Chrysene	5.00	5.00	100	70-130	
Dibenz(a,h)anthracene	5.00	4.92	98	70-130	
Dibenzofuran	5.00	4.87	97	70-130	
1,2-Dichlorobenzene	5.00	5.33	107	70-130	
1,3-Dichlorobenzene	5.00	5.18	104	70-130	
1,4-Dichlorobenzene	5.00	5.28	106	70-130	
3,3'-Dichlorobenzidine	10.0	9.74	97	70-130	
2,4-Dichlorophenol	5.00	4.96	99	70-130	
Diethyl phthalate	5.00	5.02	100	70-130	
2,4-Dimethylphenol	5.00	4.92	98	70-130	
Dimethyl phthalate	5.00	5.12	102	70-130	
Di-n-butyl phthalate	5.00	5.36	107	70-130	
4,6-Dinitro-2-methylphenol	10.0	10.3	103	70-130	
2,4-Dinitrophenol	10.0	9.94	99	70-130	
2,4-Dinitrotoluene	5.00	5.21	104	70-130	
2,6-Dinitrotoluene	5.00	5.05	101	70-130	
Di-n-octyl phthalate	5.00	4.79	96	70-130	
Fluoranthene	5.00	5.18	104	70-130	
Fluorene	5.00	4.86	97	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50424003.D

Lab ID: MRL 240-177779/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobenzene	5.00	5.41	108	70-130	
Hexachlorobutadiene	5.00	4.94	99	70-130	
Hexachlorocyclopentadiene	5.00	4.97	99	70-130	
Hexachloroethane	5.00	5.44	109	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.86	97	70-130	
Isophorone	5.00	4.85	97	70-130	
2-Methylnaphthalene	5.00	4.74	95	70-130	
2-Methylphenol	5.00	5.15	103	70-130	
3 & 4 Methylphenol	5.00	5.07	101	70-130	
Naphthalene	5.00	4.70	94	70-130	
2-Nitroaniline	5.00	5.03	101	70-130	
3-Nitroaniline	5.00	5.21	104	70-130	
4-Nitroaniline	5.00	4.71	94	70-130	
Nitrobenzene	5.00	4.76	95	70-130	
2-Nitrophenol	5.00	5.00	100	70-130	
4-Nitrophenol	10.0	10.0	100	70-130	
N-Nitrosodi-n-propylamine	5.00	5.28	106	70-130	
N-Nitrosodiphenylamine	10.0	11.0	110	70-130	
Pentachlorophenol	10.0	9.10	91	70-130	
Phenanthrene	5.00	4.96	99	70-130	
Phenol	5.00	5.05	101	70-130	
Pyrene	5.00	4.94	99	70-130	
1,2,4-Trichlorobenzene	5.00	4.94	99	70-130	
2,4,5-Trichlorophenol	5.00	5.05	101	70-130	
2,4,6-Trichlorophenol	5.00	4.86	97	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50424017.D

Lab ID: MRL 240-177779/17 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.72	94	70-130	
Acenaphthylene	5.00	4.86	97	70-130	
Anthracene	5.00	4.94	99	70-130	
Benzo[a]anthracene	5.00	4.85	97	70-130	
Benzo[a]pyrene	5.00	4.94	99	70-130	
Benzo[b]fluoranthene	5.00	4.72	94	70-130	
Benzo[g,h,i]perylene	5.00	4.79	96	70-130	
Benzoic acid	10.0	8.79	88	70-130	M
Benzo[k]fluoranthene	5.00	5.00	100	70-130	
Benzyl alcohol	5.00	4.61	92	70-130	
Bis(2-chloroethoxy)methane	5.00	5.01	100	70-130	
Bis(2-chloroethyl)ether	5.00	4.69	94	70-130	
bis (2-chloroisopropyl) ether	5.00	5.11	102	70-130	
Bis(2-ethylhexyl) phthalate	5.00	5.02	100	70-130	
4-Bromophenyl phenyl ether	5.00	5.21	104	70-130	
Butyl benzyl phthalate	5.00	4.89	98	70-130	
Carbazole	5.00	4.94	99	70-130	
4-Chloroaniline	5.00	5.20	104	70-130	
Pyridine	5.00	4.55	91	70-130	
4-Chloro-3-methylphenol	5.00	5.15	103	70-130	
2-Chloronaphthalene	5.00	4.77	95	70-130	
2-Chlorophenol	5.00	4.74	95	70-130	
4-Chlorophenyl phenyl ether	5.00	4.89	98	70-130	
Chrysene	5.00	4.88	98	70-130	
Dibenz(a,h)anthracene	5.00	4.93	99	70-130	
Dibenzofuran	5.00	4.99	100	70-130	
1,2-Dichlorobenzene	5.00	4.99	100	70-130	
1,3-Dichlorobenzene	5.00	4.83	97	70-130	
1,4-Dichlorobenzene	5.00	4.85	97	70-130	
3,3'-Dichlorobenzidine	10.0	9.15	91	70-130	
2,4-Dichlorophenol	5.00	5.08	102	70-130	
Diethyl phthalate	5.00	5.09	102	70-130	
2,4-Dimethylphenol	5.00	5.00	100	70-130	
Dimethyl phthalate	5.00	5.13	103	70-130	
Di-n-butyl phthalate	5.00	5.03	101	70-130	
4,6-Dinitro-2-methylphenol	10.0	4.42	44	70-130	^
2,4-Dinitrophenol	10.0	4.84	48	70-130	^
2,4-Dinitrotoluene	5.00	5.28	106	70-130	
2,6-Dinitrotoluene	5.00	4.89	98	70-130	
Di-n-octyl phthalate	5.00	5.02	100	70-130	
Fluoranthene	5.00	4.93	99	70-130	
Fluorene	5.00	4.98	100	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50424017.D

Lab ID: MRL 240-177779/17 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobenzene	5.00	4.80	96	70-130	
Hexachlorobutadiene	5.00	4.95	99	70-130	
Hexachlorocyclopentadiene	5.00	2.69	54	70-130	^
Hexachloroethane	5.00	4.93	99	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.96	99	70-130	
Isophorone	5.00	4.99	100	70-130	
2-Methylnaphthalene	5.00	4.67	93	70-130	
2-Methylphenol	5.00	4.98	100	70-130	
3 & 4 Methylphenol	5.00	4.87	97	70-130	
Naphthalene	5.00	4.87	97	70-130	
2-Nitroaniline	5.00	5.10	102	70-130	
3-Nitroaniline	5.00	5.26	105	70-130	
4-Nitroaniline	5.00	4.71	94	70-130	
Nitrobenzene	5.00	4.74	95	70-130	
2-Nitrophenol	5.00	4.89	98	70-130	
4-Nitrophenol	10.0	9.69	97	70-130	
N-Nitrosodi-n-propylamine	5.00	4.92	98	70-130	
N-Nitrosodiphenylamine	10.0	10.4	104	70-130	
Pentachlorophenol	10.0	8.76	88	70-130	
Phenanthrene	5.00	4.87	97	70-130	
Phenol	5.00	4.91	98	70-130	
Pyrene	5.00	4.90	98	70-130	
1,2,4-Trichlorobenzene	5.00	4.91	98	70-130	
2,4,5-Trichlorophenol	5.00	4.94	99	70-130	
2,4,6-Trichlorophenol	5.00	5.14	103	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: 50424005.D Lab Sample ID: MB 240-176086/2-A

Matrix: Water Date Extracted: 04/13/2015 06:18

Instrument ID: A4HP9 Date Analyzed: 04/24/2015 09:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-176086/3-A	50424006.D	04/24/2015 09:48
079SB-0385-0001-SW	240-49236-3	50424011.D	04/24/2015 11:53

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: 50424007.D Lab Sample ID: MB 240-176654/8-A

Matrix: Water Date Extracted: 04/16/2015 08:13

Instrument ID: A4HP9 Date Analyzed: 04/24/2015 10:13

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-176654/9-A	50424008.D	04/24/2015 10:38
079SB-0383-0001-IDW	240-49236-1	50424012.D	04/24/2015 12:18
079SB-0384-0001-IDW	240-49236-2	50424013.D	04/24/2015 12:43

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: 50420001.D DFTPP Injection Date: 04/20/2015

Instrument ID: A4HP9 DFTPP Injection Time: 08:28

Analysis Batch No.: 177011

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	42.8	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	67.0	
70	Less than 2.0% of mass 69	0.3	(0.5)1
127	25.0 - 75.0% of mass 198	51.8	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.3	
275	10.0- 30.0% of mass 198	22.7	
365	Greater than 0.75% of mass 198	2.5	
441	Present, but less than mass 443	9.7	
442	40.0 - 110.0% of mass 198	55.2	
443	15.0 - 24.0% of mass 442	10.7	(19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-177011/2	50420002.D	04/20/2015	08:49
	STD4 240-177011/3	50420003.D	04/20/2015	09:14
	STD3 240-177011/4	50420004.D	04/20/2015	09:40
	STD2 240-177011/5	50420005.D	04/20/2015	10:05
	STD1 240-177011/6	50420006.D	04/20/2015	10:31
	STD9 240-177011/7	50420007.D	04/20/2015	10:56
	STD8 240-177011/8	50420008.D	04/20/2015	11:22
	STD7 240-177011/9	50420009.D	04/20/2015	11:47
	STD6 240-177011/10	50420010.D	04/20/2015	12:41
	ICV 240-177011/11	50420011.D	04/20/2015	13:07

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab File ID: 50424001.D DFTPP Injection Date: 04/24/2015

Instrument ID: A4HP9 DFTPP Injection Time: 07:43

Analysis Batch No.: 177779

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	46.3	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	67.5	
70	Less than 2.0% of mass 69	0.3	(0.5)1
127	25.0 - 75.0% of mass 198	50.9	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.4	
275	10.0- 30.0% of mass 198	21.4	
365	Greater than 0.75% of mass 198	2.6	
441	Present, but less than mass 443	9.3	
442	40.0 - 110.0% of mass 198	55.8	
443	15.0 - 24.0% of mass 442	11.3	(20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-177779/2	50424002.D	04/24/2015	08:09
	MRL 240-177779/3	50424003.D	04/24/2015	08:34
	MB 240-176086/2-A	50424005.D	04/24/2015	09:23
	LCS 240-176086/3-A	50424006.D	04/24/2015	09:48
	MB 240-176654/8-A	50424007.D	04/24/2015	10:13
	LCS 240-176654/9-A	50424008.D	04/24/2015	10:38
079SB-0385-0001-SW	240-49236-3	50424011.D	04/24/2015	11:53
079SB-0383-0001-IDW	240-49236-1	50424012.D	04/24/2015	12:18
079SB-0384-0001-IDW	240-49236-2	50424013.D	04/24/2015	12:43
	MRL 240-177779/17	50424017.D	04/24/2015	14:23
	LODV 240-177779/18	50424018.D	04/24/2015	14:52
	LODV 240-177779/19	50424019.D	04/24/2015	15:17
	LODV 240-177779/20	50424020.D	04/24/2015	15:42

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD6 240-177011/10 Date Analyzed: 04/20/2015 12:41

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 50420010.D Heated Purge: (Y/N) N

Calibration ID: 28003

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		121080	6.38	389871	7.50	235173	9.00
UPPER LIMIT		242160	6.88	779742	8.00	470346	9.50
LOWER LIMIT		60540	5.88	194936	7.00	117587	8.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-177011/11		139492	6.38	581350	7.49	360913	9.00
CCV 240-177779/2		113534	6.33	420822	7.45	253315	8.95
MRL 240-177779/3		116883	6.33	462031	7.44	286264	8.95
MB 240-176086/2-A		89992	6.33	338057	7.45	210467	8.95
LCS 240-176086/3-A		94317	6.33	349882	7.44	216987	8.95
MB 240-176654/8-A		90606	6.33	345876	7.44	211644	8.95
LCS 240-176654/9-A		92318	6.33	353801	7.44	214270	8.95
240-49236-3	079SB-0385-0001-SW	91587	6.33	341396	7.45	208678	8.95
240-49236-1	079SB-0383-0001-IDW	92451	6.33	343208	7.45	210507	8.95
240-49236-2	079SB-0384-0001-IDW	87499	6.33	340593	7.45	202963	8.95
MRL 240-177779/17		128975	6.33	483106	7.45	301950	8.95
LODV 240-177779/18		116934	6.33	435476	7.44	249141	8.95
LODV 240-177779/19		121094	6.33	459468	7.45	271332	8.95
LODV 240-177779/20		127108	6.33	456874	7.45	269703	8.95

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD6 240-177011/10 Date Analyzed: 04/20/2015 12:41

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 50420010.D Heated Purge: (Y/N) N

Calibration ID: 28003

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		355837	10.27	468196	12.58	382118	14.37
UPPER LIMIT		711674	10.77	936392	13.08	764236	14.87
LOWER LIMIT		177919	9.77	234098	12.08	191059	13.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-177011/11		530764	10.27	647642	12.58	536696	14.36
CCV 240-177779/2		410655	10.22	518683	12.51	425022	14.25
MRL 240-177779/3		471050	10.22	581371	12.51	481170	14.25
MB 240-176086/2-A		383214	10.22	428561	12.51	343116	14.25
LCS 240-176086/3-A		359916	10.22	451375	12.51	373210	14.25
MB 240-176654/8-A		390113	10.22	442894	12.50	364216	14.25
LCS 240-176654/9-A		368711	10.22	458335	12.51	368324	14.25
240-49236-3	079SB-0385-0001-SW	395635	10.22	430852	12.51	347885	14.25
240-49236-1	079SB-0383-0001-IDW	392470	10.22	425064	12.50	342531	14.25
240-49236-2	079SB-0384-0001-IDW	379051	10.22	442351	12.50	354124	14.25
MRL 240-177779/17		528572	10.22	611711	12.51	513616	14.25
LODV 240-177779/18		482817	10.22	564505	12.51	462974	14.25
LODV 240-177779/19		511662	10.22	598843	12.50	487963	14.25
LODV 240-177779/20		484365	10.22	558802	12.51	476244	14.25

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW | Lab Sample ID: 240-49236-1

Matrix: Solid (TCLP) | Lab File ID: 50424012.D

Analysis Method: 8270C | Date Collected: 04/10/2015 08:00

Extract. Method: 3520C | Date Extracted: 04/16/2015 08:13

Sample wt/vol: 250(mL) | Date Analyzed: 04/24/2015 12:18

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-46-7	1,4-Dichlorobenzene	0.00050	U	0.0040	0.00050	0.00034
95-95-4	2,4,5-Trichlorophenol	0.00050	U	0.020	0.00050	0.00030
88-06-2	2,4,6-Trichlorophenol	0.00050	U	0.020	0.00050	0.00024
121-14-2	2,4-Dinitrotoluene	0.00050	U	0.020	0.00050	0.00025
118-74-1	Hexachlorobenzene	0.00010	U	0.020	0.00010	0.000085
87-68-3	Hexachlorobutadiene	0.00050	U	0.020	0.00050	0.00027
67-72-1	Hexachloroethane	0.00050	U	0.020	0.00050	0.00019
15831-10-4	3 & 4 Methylphenol	0.0010	U	0.040	0.0010	0.00080
95-48-7	2-Methylphenol	0.00050	U	0.0040	0.00050	0.00017
98-95-3	Nitrobenzene	0.00010	U	0.0040	0.00010	0.000040
87-86-5	Pentachlorophenol	0.0010	U	0.040	0.0010	0.00027
110-86-1	Pyridine	0.0011	J M	0.020	0.00050	0.00035

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	81		22-110
367-12-4	2-Fluorophenol (Surr)	60		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	78		29-111
1718-51-0	Terphenyl-d14 (Surr)	85		40-119
118-79-6	2,4,6-Tribromophenol (Surr)	84		17-117
4165-62-2	Phenol-d5 (Surr)	74		10-110

Report Date: 27-Apr-2015 09:33:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424012.D
Lims ID: 240-49236-B-1-D Lab Sample ID: 240-49236-1
Client ID: 079SB-0383-0001-IDW
Sample Type: Client
Inject. Date: 24-Apr-2015 12:18:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-012
Misc. Info.: 240-49236-B-1-D240-49236-B-1-D
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 13:09:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.325	6.325	0.000	94	92451	4.00	
* 2 Naphthalene-d8	136	7.446	7.445	0.001	99	343208	4.00	
* 3 Acenaphthene-d10	164	8.951	8.950	0.001	91	210507	4.00	
* 4 Phenanthrene-d10	188	10.220	10.220	0.000	98	392470	4.00	
* 5 Chrysene-d12	240	12.504	12.504	0.000	97	425064	4.00	
* 6 Perylene-d12	264	14.250	14.245	0.005	99	342531	4.00	
$ 7 2-Fluorophenol	112	5.094	5.097	-0.003	94	203157	5.97	
$ 8 Phenol-d5	99	5.960	5.962	-0.002	94	379012	7.44	
$ 9 Nitrobenzene-d5	82	6.801	6.804	-0.003	85	487431	7.80	
$ 10 2-Fluorobiphenyl (Surr)	172	8.350	8.352	-0.002	99	574644	8.12	
$ 11 2,4,6-Tribromophenol	330	9.619	9.622	-0.003	84	65455	8.40	
$ 12 Terphenyl-d14	244	11.543	11.545	-0.002	99	733411	8.48	
27 Pyridine	79	3.488	3.466	0.022	0	7258	0.1378	M
48 1,4-Dichlorobenzene	146		6.342				ND	
51 2-Methylphenol	108		6.515				ND	
21 3 & 4 Methylphenol	108		6.645				ND	
61 Hexachloroethane	117		6.794				ND	
62 Nitrobenzene	77		6.823				ND	
79 Hexachlorobutadiene	225		7.568				ND	
92 2,4,6-Trichlorophenol	196		8.285				ND	
93 2,4,5-Trichlorophenol	196		8.318				ND	
114 2,4-Dinitrotoluene	165		9.073				ND	
141 Hexachlorobenzene	284		9.901				ND	
143 Pentachlorophenol	266		10.054				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

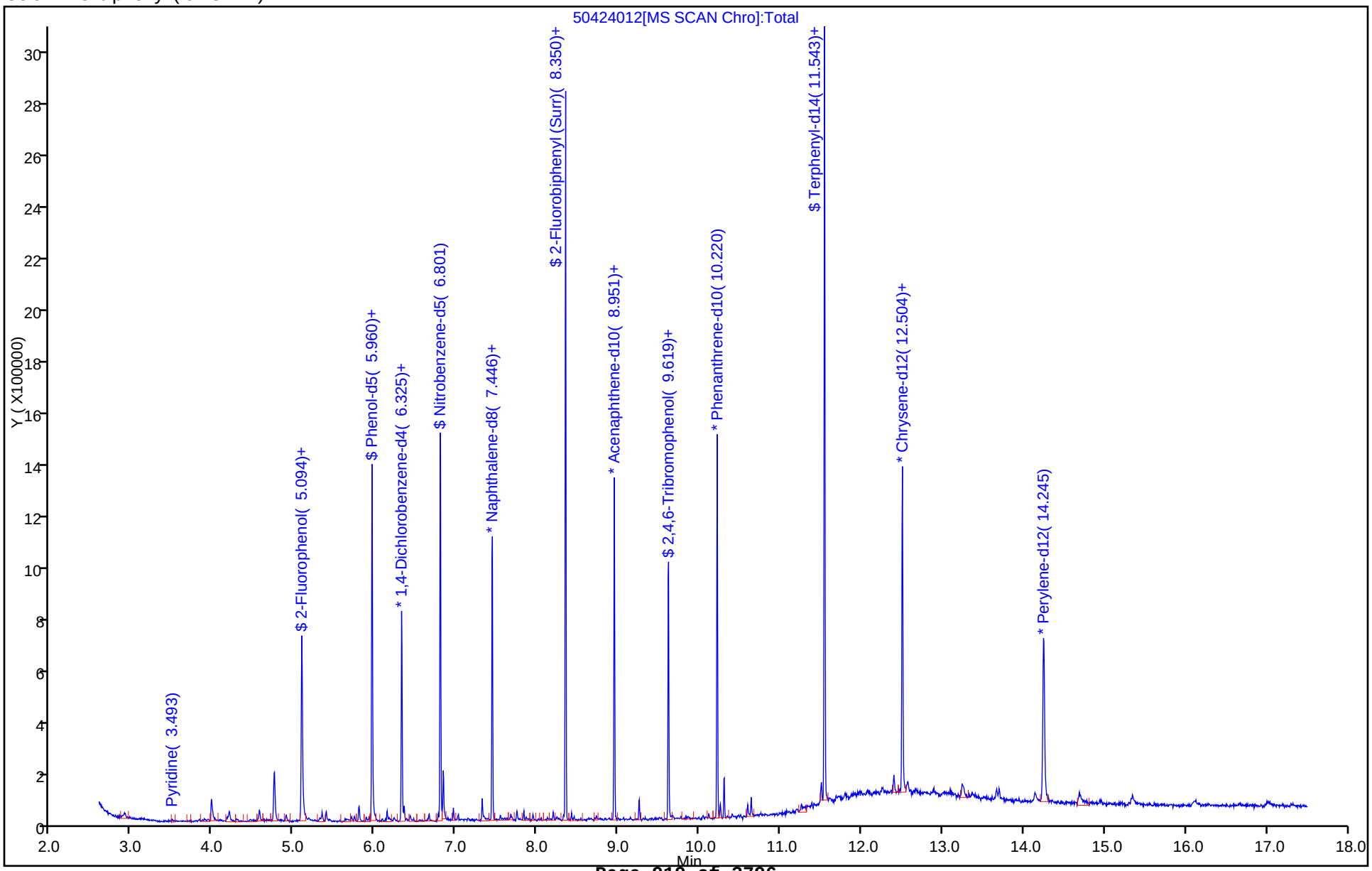
SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Apr-2015 09:33:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424012.D				
Injection Date:	24-Apr-2015 12:18:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	240-49236-B-1-D	Lab Sample ID:	240-49236-1	Worklist Smp#:	12
Client ID:	079SB-0383-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)

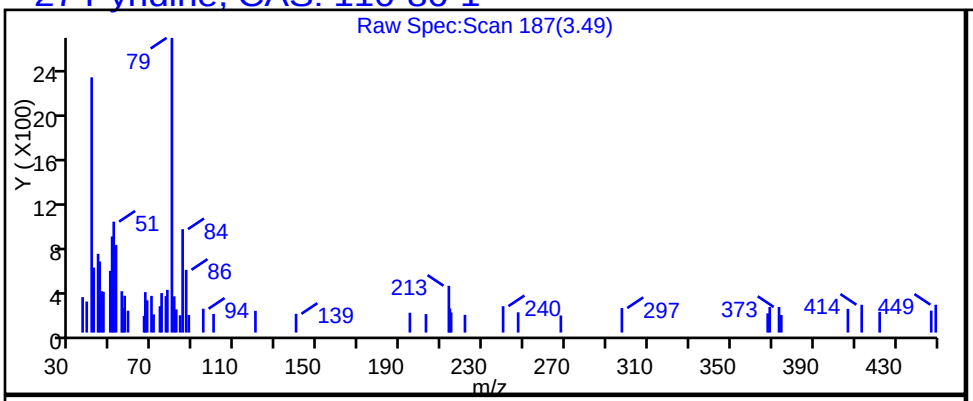


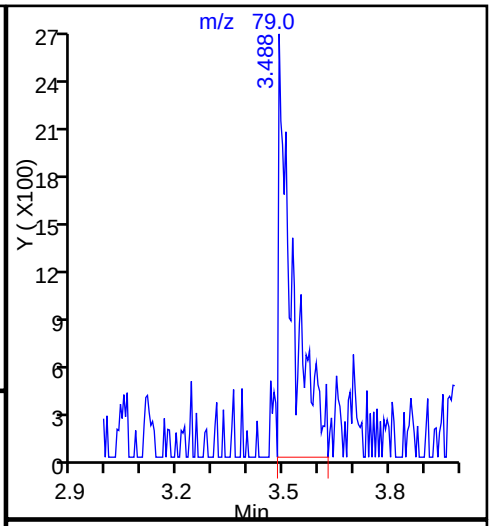
Report Date: 27-Apr-2015 09:33:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

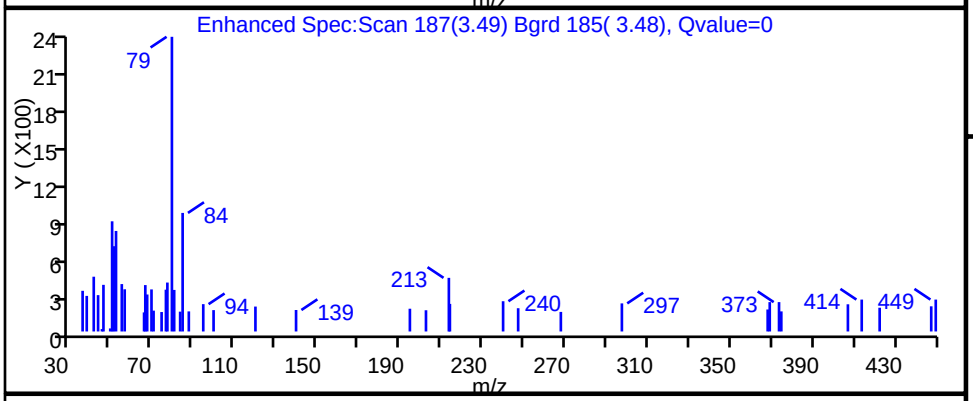
TestAmerica Canton

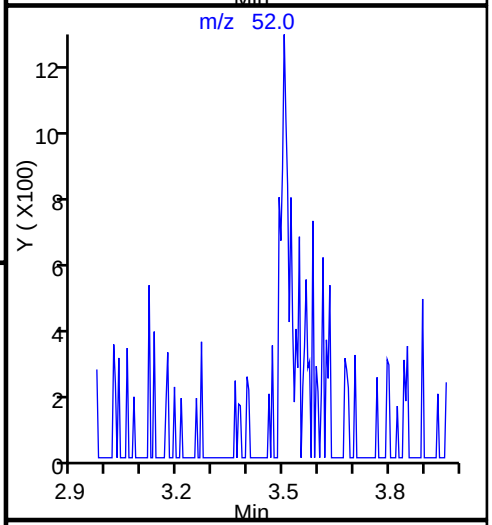
Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424012.D				
Injection Date:	24-Apr-2015 12:18:30	Instrument ID:	A4HP9		
Lims ID:	240-49236-B-1-D	Lab Sample ID:	240-49236-1		
Client ID:	079SB-0383-0001-IDW				
Operator ID:	001574	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

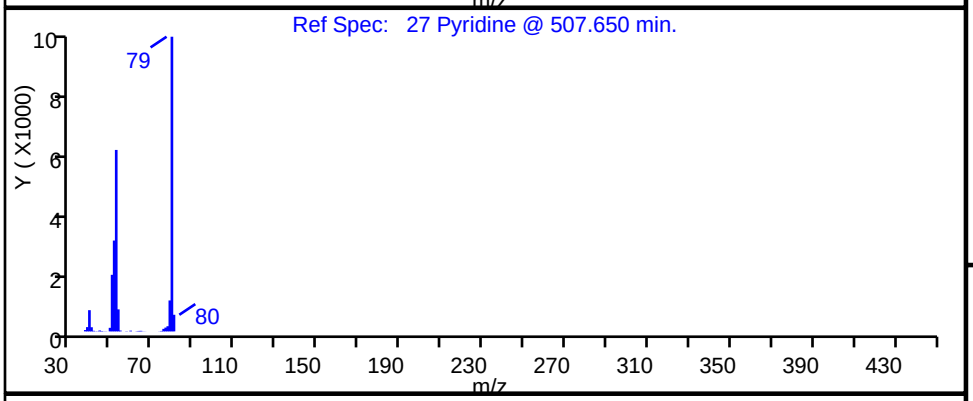
27 Pyridine, CAS: 110-86-1

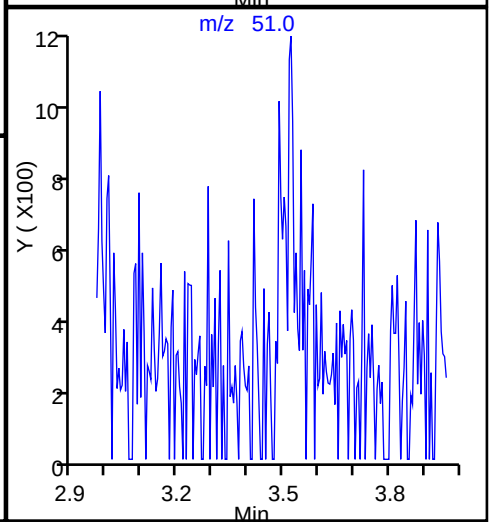


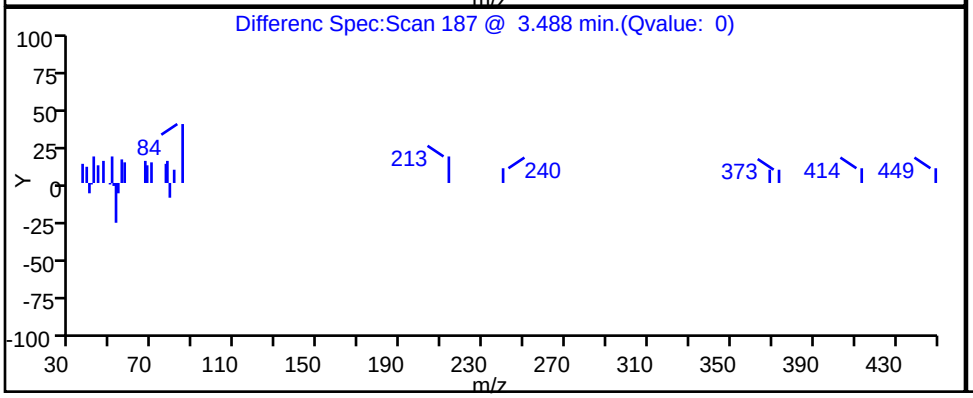












Manual Integration/User Assign Peak Report

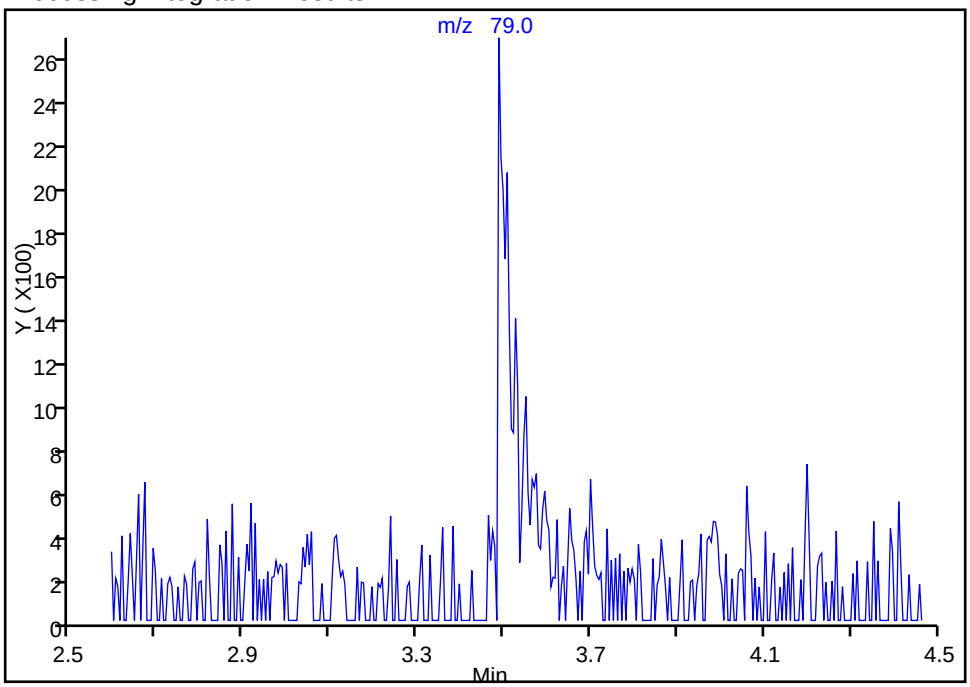
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424012.D				
Injection Date:	24-Apr-2015 12:18:30	Instrument ID:	A4HP9		
Lims ID:	240-49236-B-1-D	Lab Sample ID:	240-49236-1		
Client ID:	079SB-0383-0001-IDW				
Operator ID:	001574	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

27 Pyridine, CAS: 110-86-1

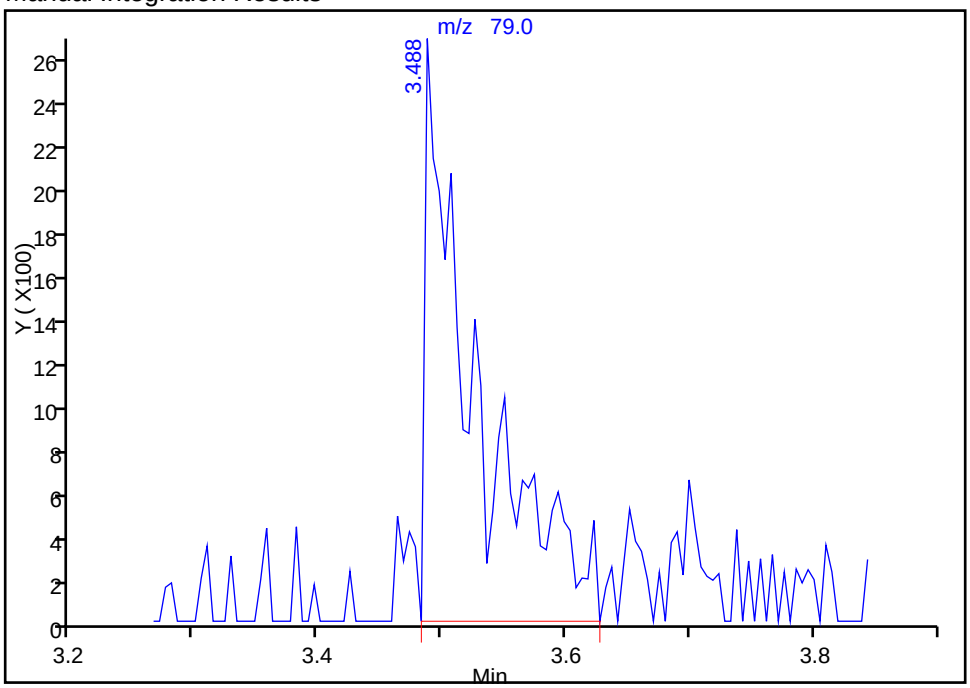
Not Detected
Expected RT: 3.47

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 7258
Amount: 0.137758
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 13:09:20
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW | Lab Sample ID: 240-49236-2

Matrix: Water (TCLP) | Lab File ID: 50424013.D

Analysis Method: 8270C | Date Collected: 04/10/2015 08:30

Extract. Method: 3520C | Date Extracted: 04/16/2015 08:13

Sample wt/vol: 250(mL) | Date Analyzed: 04/24/2015 12:43

Con. Extract Vol.: 2(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-46-7	1,4-Dichlorobenzene	0.0020	U	0.016	0.0020	0.0014
95-95-4	2,4,5-Trichlorophenol	0.0020	U	0.080	0.0020	0.0012
88-06-2	2,4,6-Trichlorophenol	0.0020	U	0.080	0.0020	0.00096
121-14-2	2,4-Dinitrotoluene	0.0020	U	0.080	0.0020	0.0010
118-74-1	Hexachlorobenzene	0.00040	U	0.080	0.00040	0.00034
87-68-3	Hexachlorobutadiene	0.0020	U	0.080	0.0020	0.0011
67-72-1	Hexachloroethane	0.0020	U	0.080	0.0020	0.00076
15831-10-4	3 & 4 Methylphenol	0.0040	U	0.16	0.0040	0.0032
95-48-7	2-Methylphenol	0.0020	U	0.016	0.0020	0.00068
98-95-3	Nitrobenzene	0.00040	U	0.016	0.00040	0.00016
87-86-5	Pentachlorophenol	0.0040	U	0.16	0.0040	0.0011
110-86-1	Pyridine	0.0020	U	0.080	0.0020	0.0014

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	85		22-110
367-12-4	2-Fluorophenol (Surr)	19		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	72		29-111
1718-51-0	Terphenyl-d14 (Surr)	80		40-119
118-79-6	2,4,6-Tribromophenol (Surr)	96		17-117
4165-62-2	Phenol-d5 (Surr)	68		10-110

Report Date: 27-Apr-2015 09:33:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424013.D
Lims ID: 240-49236-F-2-B Lab Sample ID: 240-49236-2
Client ID: 079SB-0384-0001-IDW
Sample Type: Client
Inject. Date: 24-Apr-2015 12:43:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 4.0000
Sample Info: 240-0042899-013
Misc. Info.: 240-49236-F-2-B240-49236-F-2-B
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 13:15:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.329	6.325	0.004	92	87499	4.00	
* 2 Naphthalene-d8	136	7.445	7.445	0.000	99	340593	4.00	
* 3 Acenaphthene-d10	164	8.950	8.950	0.000	92	202963	4.00	
* 4 Phenanthrene-d10	188	10.219	10.220	-0.001	98	379051	4.00	
* 5 Chrysene-d12	240	12.504	12.504	0.000	97	442351	4.00	
* 6 Perylene-d12	264	14.249	14.245	0.004	98	354124	4.00	
$ 7 2-Fluorophenol	112	5.098	5.097	0.001	93	15100	0.4688	
$ 8 Phenol-d5	99	5.964	5.962	0.002	95	81991	1.70	
$ 9 Nitrobenzene-d5	82	6.805	6.804	0.001	86	111088	1.79	
$ 10 2-Fluorobiphenyl (Surr)	172	8.349	8.352	-0.003	97	144989	2.12	
$ 11 2,4,6-Tribromophenol	330	9.618	9.622	-0.004	82	17956	2.39	
$ 12 Terphenyl-d14	244	11.542	11.545	-0.003	99	178914	1.99	
27 Pyridine	79		3.466				ND	
48 1,4-Dichlorobenzene	146		6.342				ND	
51 2-Methylphenol	108		6.515				ND	
21 3 & 4 Methylphenol	108		6.645				ND	
61 Hexachloroethane	117		6.794				ND	
62 Nitrobenzene	77		6.823				ND	
79 Hexachlorobutadiene	225		7.568				ND	
92 2,4,6-Trichlorophenol	196		8.285				ND	
93 2,4,5-Trichlorophenol	196		8.318				ND	
114 2,4-Dinitrotoluene	165		9.073				ND	
141 Hexachlorobenzene	284		9.901				ND	
143 Pentachlorophenol	266		10.054				ND	

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

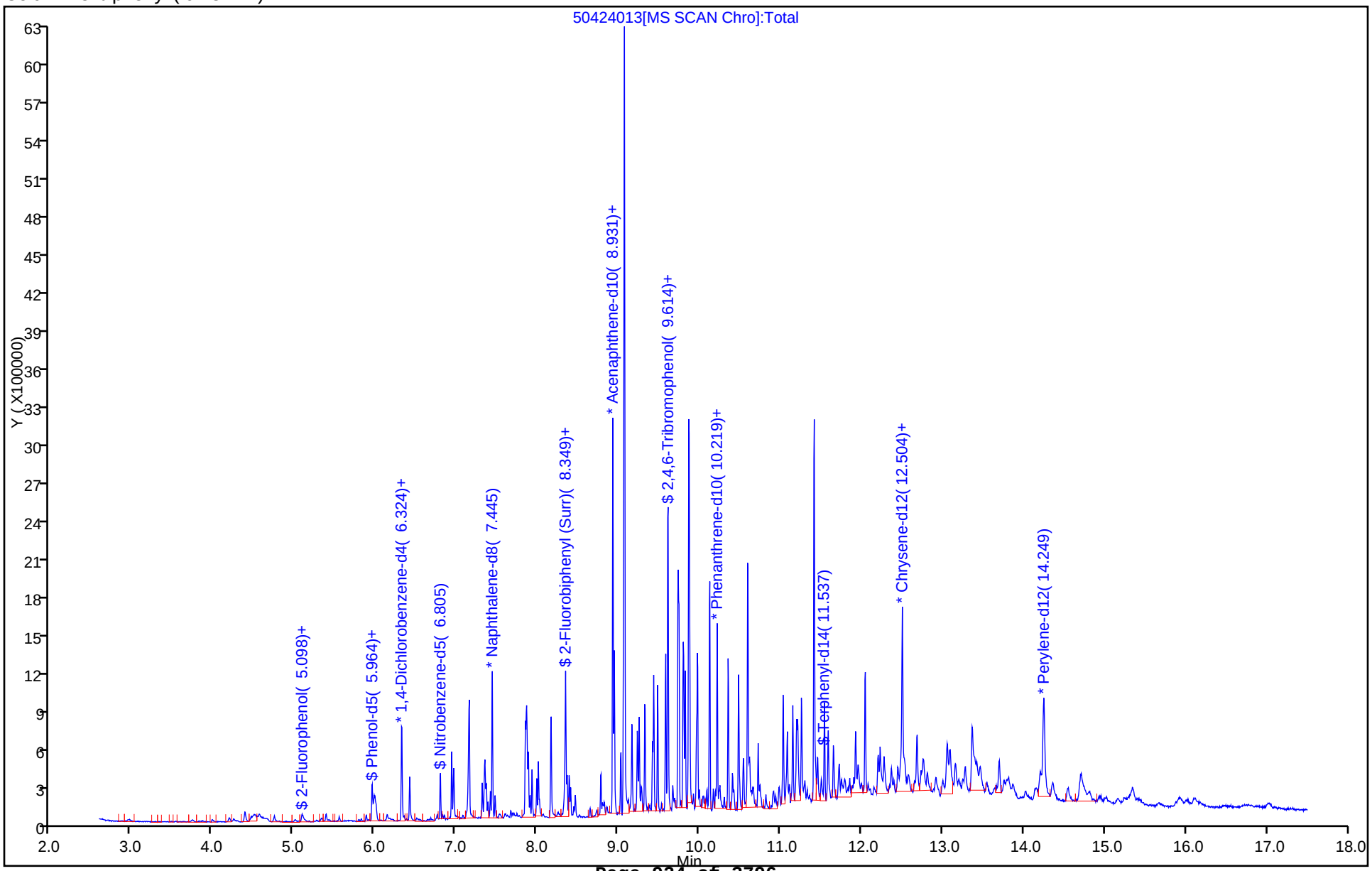
Report Date: 27-Apr-2015 09:33:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424013.D

Injection Date:	24-Apr-2015 12:43:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	240-49236-F-2-B	Lab Sample ID:	240-49236-2	Worklist Smp#:	13
Client ID:	079SB-0384-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	4.0000	ALS Bottle#:	13
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW | Lab Sample ID: 240-49236-3

Matrix: Water | Lab File ID: 50424011.D

Analysis Method: 8270C | Date Collected: 04/10/2015 08:45

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1040(mL) | Date Analyzed: 04/24/2015 11:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.096	U	0.19	0.096	0.043
208-96-8	Acenaphthylene	0.096	U	0.19	0.096	0.046
120-12-7	Anthracene	0.096	U	0.19	0.096	0.085
56-55-3	Benzo[a]anthracene	0.096	U	0.19	0.096	0.028
50-32-8	Benzo[a]pyrene	0.096	U	0.19	0.096	0.049
205-99-2	Benzo[b]fluoranthene	0.096	U	0.19	0.096	0.038
191-24-2	Benzo[g,h,i]perylene	0.096	U	0.19	0.096	0.045
65-85-0	Benzoic acid	19	U	24	19	9.6
207-08-9	Benzo[k]fluoranthene	0.096	U	0.19	0.096	0.043
100-51-6	Benzyl alcohol	0.48	U	4.8	0.48	0.37
111-91-1	Bis(2-chloroethoxy)methane	0.48	U	0.96	0.48	0.31
111-44-4	Bis(2-chloroethyl)ether	0.096	U	0.96	0.096	0.096
108-60-1	bis (2-chloroisopropyl) ether	0.48	U	0.96	0.48	0.38
117-81-7	Bis(2-ethylhexyl) phthalate	4.8	U	4.8	4.8	1.6
101-55-3	4-Bromophenyl phenyl ether	0.48	U	1.9	0.48	0.21
85-68-7	Butyl benzyl phthalate	0.48	U	4.8	0.48	0.25
86-74-8	Carbazole	0.48	U	0.96	0.48	0.27
106-47-8	4-Chloroaniline	0.48	U	1.9	0.48	0.20
59-50-7	4-Chloro-3-methylphenol	0.48	U	1.9	0.48	0.20
91-58-7	2-Chloronaphthalene	0.48	U	0.96	0.48	0.096
95-57-8	2-Chlorophenol	0.48	U	0.96	0.48	0.28
7005-72-3	4-Chlorophenyl phenyl ether	0.48	U	1.9	0.48	0.29
218-01-9	Chrysene	0.096	U	0.19	0.096	0.048
53-70-3	Dibenz(a,h)anthracene	0.096	U	0.19	0.096	0.043
132-64-9	Dibenzofuran	0.096	U	0.96	0.096	0.019
95-50-1	1,2-Dichlorobenzene	0.48	U	0.96	0.48	0.28
541-73-1	1,3-Dichlorobenzene	0.48	U	0.96	0.48	0.22
106-46-7	1,4-Dichlorobenzene	0.48	U	0.96	0.48	0.33
91-94-1	3,3'-Dichlorobenzidine	0.96	U	4.8	0.96	0.36
120-83-2	2,4-Dichlorophenol	0.48	U	1.9	0.48	0.18
84-66-2	Diethyl phthalate	0.96	U	1.9	0.96	0.58
105-67-9	2,4-Dimethylphenol	0.48	U	1.9	0.48	0.24
131-11-3	Dimethyl phthalate	0.48	U	1.9	0.48	0.28
84-74-2	Di-n-butyl phthalate	4.8	U	4.8	4.8	1.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW | Lab Sample ID: 240-49236-3

Matrix: Water | Lab File ID: 50424011.D

Analysis Method: 8270C | Date Collected: 04/10/2015 08:45

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1040(mL) | Date Analyzed: 04/24/2015 11:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	3.8	U	4.8	3.8	2.3
51-28-5	2,4-Dinitrophenol	0.96	U	4.8	0.96	0.31
121-14-2	2,4-Dinitrotoluene	0.48	U	4.8	0.48	0.24
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	4.8	1.0
117-84-0	Di-n-octyl phthalate	0.48	U	1.9	0.48	0.22
206-44-0	Fluoranthene	0.096	U	0.19	0.096	0.043
86-73-7	Fluorene	0.096	U	0.19	0.096	0.039
118-74-1	Hexachlorobenzene	0.096	U	0.19	0.096	0.082
87-68-3	Hexachlorobutadiene	0.48	U	0.96	0.48	0.26
77-47-4	Hexachlorocyclopentadiene	0.48	U	9.6	0.48	0.23
67-72-1	Hexachloroethane	0.48	U	0.96	0.48	0.18
193-39-5	Indeno[1,2,3-cd]pyrene	0.096	U	0.19	0.096	0.042
78-59-1	Isophorone	0.48	U	0.96	0.48	0.26
91-57-6	2-Methylnaphthalene	0.096	U	0.19	0.096	0.087
95-48-7	2-Methylphenol	0.48	U	0.96	0.48	0.16
15831-10-4	3 & 4 Methylphenol	0.96	U	1.9	0.96	0.77
91-20-3	Naphthalene	0.096	U	0.19	0.096	0.060
88-74-4	2-Nitroaniline	0.48	U	1.9	0.48	0.20
99-09-2	3-Nitroaniline	0.48	U	1.9	0.48	0.27
100-01-6	4-Nitroaniline	0.48	U	1.9	0.48	0.21
98-95-3	Nitrobenzene	0.096	U	0.96	0.096	0.038
88-75-5	2-Nitrophenol	0.48	U	1.9	0.48	0.27
100-02-7	4-Nitrophenol	3.8	U	4.8	3.8	0.28
621-64-7	N-Nitrosodi-n-propylamine	0.48	U	0.96	0.48	0.23
86-30-6	N-Nitrosodiphenylamine	0.48	U	0.96	0.48	0.30
87-86-5	Pentachlorophenol	0.96	U	4.8	0.96	0.26
85-01-8	Phenanthrene	0.096	U	0.19	0.096	0.060
108-95-2	Phenol	0.96	U	0.96	0.96	0.58
129-00-0	Pyrene	0.096	U	0.19	0.096	0.040
120-82-1	1,2,4-Trichlorobenzene	0.48	U	0.96	0.48	0.27
95-95-4	2,4,5-Trichlorophenol	0.48	U	4.8	0.48	0.29
88-06-2	2,4,6-Trichlorophenol	0.48	U	4.8	0.48	0.23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW | Lab Sample ID: 240-49236-3

Matrix: Water | Lab File ID: 50424011.D

Analysis Method: 8270C | Date Collected: 04/10/2015 08:45

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1040(mL) | Date Analyzed: 04/24/2015 11:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	74		50-110
367-12-4	2-Fluorophenol (Surr)	75		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	69		40-110
4165-62-2	Phenol-d5 (Surr)	74		10-115
1718-51-0	Terphenyl-d14 (Surr)	53		50-135
118-79-6	2,4,6-Tribromophenol (Surr)	87		40-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424011.D
Lims ID: 240-49236-I-3-A Lab Sample ID: 240-49236-3
Client ID: 079SB-0385-0001-SW
Sample Type: Client
Inject. Date: 24-Apr-2015 11:53:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-011
Misc. Info.: 240-49236-I-3-A240-49236-I-3-A
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 12:29:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.325	6.325	0.000	92	91587	4.00	
* 2 Naphthalene-d8	136	7.446	7.445	0.001	98	341396	4.00	
* 3 Acenaphthene-d10	164	8.951	8.950	0.001	93	208678	4.00	
* 4 Phenanthrene-d10	188	10.220	10.220	0.000	97	395635	4.00	
* 5 Chrysene-d12	240	12.505	12.504	0.001	97	430852	4.00	
* 6 Perylene-d12	264	14.250	14.245	0.005	98	347885	4.00	
$ 7 2-Fluorophenol	112	5.094	5.097	-0.003	94	252807	7.50	
$ 8 Phenol-d5	99	5.960	5.962	-0.002	96	371947	7.38	
$ 9 Nitrobenzene-d5	82	6.806	6.804	0.002	85	428122	6.89	
$ 10 2-Fluorobiphenyl (Surr)	172	8.350	8.352	-0.002	99	518301	7.39	
$ 11 2,4,6-Tribromophenol	330	9.619	9.622	-0.003	87	67208	8.70	
$ 12 Terphenyl-d14	244	11.543	11.545	-0.002	99	462311	5.27	
43 Phenol	94		5.977				ND	
69 Bis(2-chloroethyl)ether	93		6.063				ND	
46 2-Chlorophenol	128		6.140				ND	
47 1,3-Dichlorobenzene	146		6.284				ND	
48 1,4-Dichlorobenzene	146		6.342				ND	
49 Benzyl alcohol	108		6.429				ND	
50 1,2-Dichlorobenzene	146		6.486				ND	
51 2-Methylphenol	108		6.515				ND	
53 2,2'-oxybis[1-chloropropan	45		6.549				ND	
21 3 & 4 Methylphenol	108		6.645				ND	
57 N-Nitrosodi-n-propylamine	70		6.659				ND	
61 Hexachloroethane	117		6.794				ND	
62 Nitrobenzene	77		6.823				ND	
64 Isophorone	82		7.025				ND	
66 2-Nitrophenol	139		7.102				ND	
65 2,4-Dimethylphenol	107		7.111				ND	
71 Benzoic acid	122		7.174				ND	
70 Bis(2-chloroethoxy)methane	93		7.188				ND	
73 2,4-Dichlorophenol	162		7.309				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
74 1,2,4-Trichlorobenzene	180		7.390				ND	
75 Naphthalene	128		7.467				ND	
76 4-Chloroaniline	127		7.487				ND	
79 Hexachlorobutadiene	225		7.568				ND	
86 4-Chloro-3-methylphenol	107		7.881				ND	
87 2-Methylnaphthalene	142		8.054				ND	
89 Hexachlorocyclopentadiene	237		8.198				ND	
92 2,4,6-Trichlorophenol	196		8.285				ND	
93 2,4,5-Trichlorophenol	196		8.318				ND	
100 2-Chloronaphthalene	162		8.472				ND	
102 2-Nitroaniline	65		8.535				ND	
105 Dimethyl phthalate	163		8.670				ND	
107 2,6-Dinitrotoluene	165		8.727				ND	
109 Acenaphthylene	152		8.833				ND	
110 3-Nitroaniline	138		8.881				ND	
111 2,4-Dinitrophenol	184		8.968				ND	
112 Acenaphthene	153		8.982				ND	
113 4-Nitrophenol	109		8.992				ND	
114 2,4-Dinitrotoluene	165		9.073				ND	
116 Dibenzofuran	168		9.126				ND	
121 Diethyl phthalate	149		9.261				ND	
123 4-Chlorophenyl phenyl ethe	204		9.391				ND	
125 4-Nitroaniline	138		9.400				ND	
126 Fluorene	166		9.420				ND	
128 4,6-Dinitro-2-methylphenol	198		9.429				ND	
131 N-Nitrosodiphenylamine	169		9.487				ND	
139 4-Bromophenyl phenyl ether	248		9.809				ND	
141 Hexachlorobenzene	284		9.901				ND	
143 Pentachlorophenol	266		10.054				ND	
148 Phenanthrene	178		10.242				ND	
149 Anthracene	178		10.285				ND	
151 Carbazole	167		10.401				ND	
154 Di-n-butyl phthalate	149	10.639	10.641	-0.002	98	14184	0.1221	
159 Fluoranthene	202		11.261				ND	
161 Pyrene	202		11.463				ND	
168 Butyl benzyl phthalate	149		11.925				ND	
173 Bis(2-ethylhexyl) phthalat	149	12.404	12.406	-0.002	93	11493	0.1578	
175 3,3'-Dichlorobenzidine	252		12.435				ND	
177 Benzo[a]anthracene	228		12.497				ND	
178 Chrysene	228		12.536				ND	
180 Di-n-octyl phthalate	149		13.055				ND	
182 Benzo[b]fluoranthene	252		13.709				ND	
183 Benzo[k]fluoranthene	252		13.748				ND	
184 Benzo[a]pyrene	252		14.176				ND	
188 Indeno[1,2,3-cd]pyrene	276		16.152				ND	
189 Dibenz(a,h)anthracene	278		16.162				ND	
190 Benzo[g,h,i]perylene	276		16.739				ND	

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

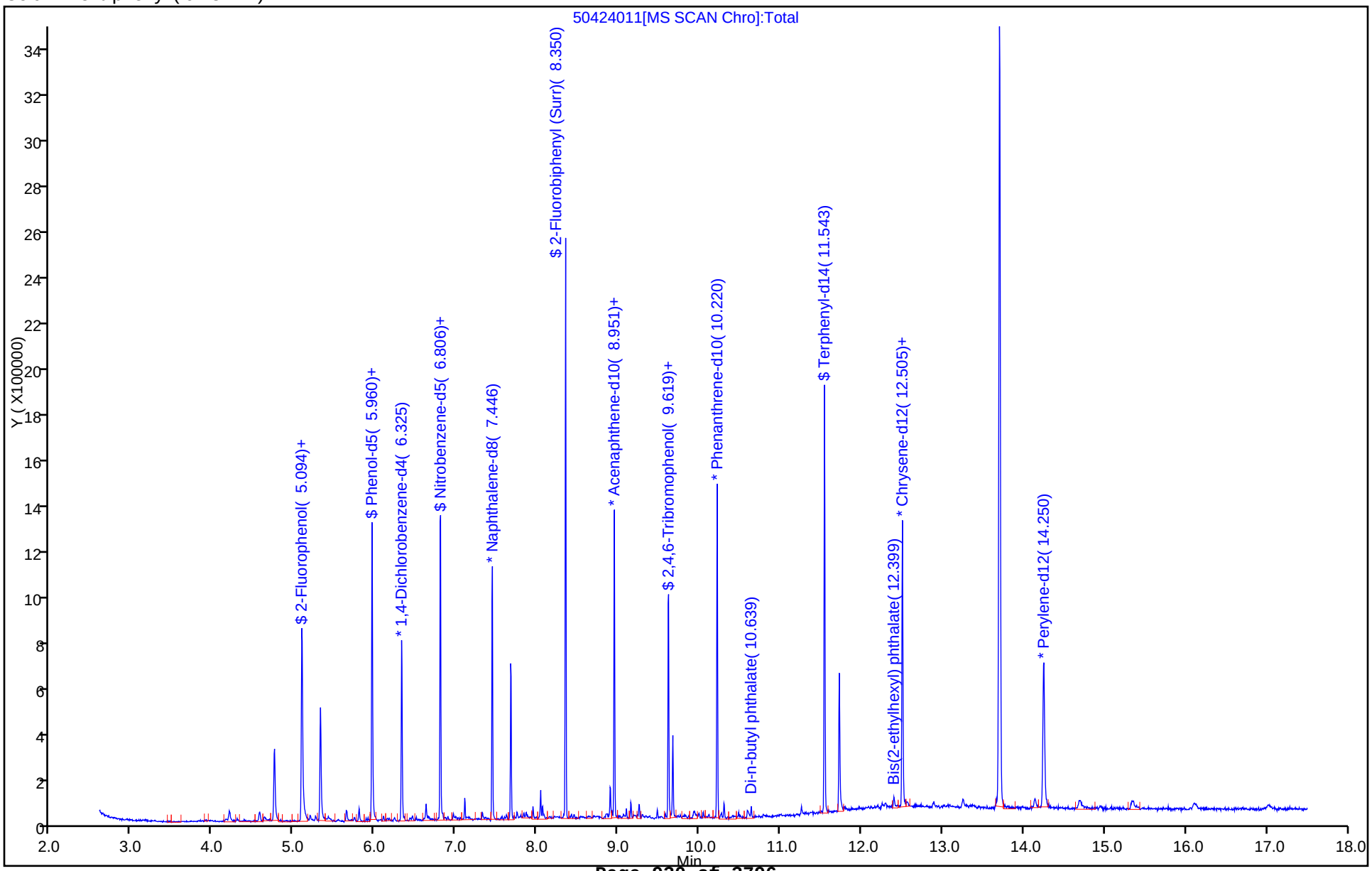
Report Date: 27-Apr-2015 09:33:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424011.D

Injection Date:	24-Apr-2015 11:53:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	240-49236-I-3-A	Lab Sample ID:	240-49236-3	Worklist Smp#:	11
Client ID:	079SB-0385-0001-SW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177011/6	50420006.D
Level 2	STD2 240-177011/5	50420005.D
Level 3	STD3 240-177011/4	50420004.D
Level 4	STD4 240-177011/3	50420003.D
Level 5	STD5 240-177011/2	50420002.D
Level 6	STD6 240-177011/10	50420010.D
Level 7	STD7 240-177011/9	50420009.D
Level 8	STD8 240-177011/8	50420008.D
Level 9	STD9 240-177011/7	50420007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.8274	0.7676 0.9104	0.8138 0.9534	0.7503 1.0129	0.7558	Ave		0.8489			0.0500	11.6		15.0			
N-Nitrosodimethylamine	1.3612	1.4118 1.6333	1.4336 1.5442	1.1662 1.5510	1.2315	Ave		1.4166			0.0500	11.4		15.0			
Pyridine	2.2803	1.9393 2.8252	2.2662 2.4382	1.9858 2.5214	1.9799	Ave		2.2796			0.0500	13.6		15.0			
Benzaldehyde	1.7690	1.8216 1.6532	1.9432 1.4927	1.7585 1.5296	1.3886	Ave		1.6696			0.0500	11.2		15.0			
Phenol	2.3945	2.3856 2.4993	2.5659 2.3601	2.3504 2.5230	2.0248	Ave		2.3879			0.0500	7.0		15.0			
Aniline	3.0040	3.2450 3.0899	3.1887 2.9150	2.8464 2.9473	2.4995	Ave		2.9670			0.0500	7.8		15.0			
Bis(2-chloroethyl)ether	2.0817	2.2358 2.0693	2.0720 1.9548	1.8349 2.0339	1.7291	Ave		2.0015			0.0500	7.9		15.0			
2-Chlorophenol	1.4140	1.4932 1.4382	1.4228 1.3510	1.3093 1.3948	1.3577	Ave		1.3976			0.0500	4.1		15.0			
1,3-Dichlorobenzene	1.4859	1.5538 1.5568	1.5384 1.4812	1.4143 1.5432	1.5197	Ave		1.5116			0.0500	3.2		15.0			
1,4-Dichlorobenzene	1.5384	1.5241 1.6366	1.5876 1.5437	1.3749 1.5766	1.4852	Ave		1.5334			0.0500	5.1		15.0			
Benzyl alcohol	1.1245	1.0704 1.1592	1.1509 1.1051	1.0679 1.1856	1.1475	Ave		1.1264			0.0500	3.8		15.0			
1,2-Dichlorobenzene	1.4264	1.3919 1.5171	1.4561 1.4379	1.2715 1.4802	1.4639	Ave		1.4306			0.0500	5.2		15.0			
2-Methylphenol	1.5444	1.4227 1.6600	1.6102 1.5769	1.3723 1.5956	1.6484	Ave		1.5538			0.0500	6.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	1.7431	1.5741 1.6906	1.8606 1.5887	1.2722 1.7238	1.6567	Ave		1.6387			0.0500	10.6		15.0			
Indene	2.7722	2.7285 3.0086	2.9375 2.8598	2.4018 3.0031	2.8301	Ave		2.8177			0.0500	7.0		15.0			
3 & 4 Methylphenol	1.6214	1.6179 1.7389	1.7526 1.6616	1.3945 1.7552	1.6203	Ave		1.6453			0.0500	7.2		15.0			
N-Nitrosodi-n-propylamine	1.7200	1.5989 1.8215	1.8775 1.7120	1.5008 1.8230	1.7084	Ave		1.7203			0.0500	7.2		15.0			
Acetophenone	2.3629	2.2750 2.5703	2.4942 2.4032	2.0506 2.5630	2.3421	Ave		2.3827			0.0500	7.2		15.0			
Hexachloroethane	0.6695	0.6889 0.7884	0.7125 0.7520	0.6352 0.7794	0.7989	Ave		0.7281			0.0500	8.3		15.0			
Nitrobenzene	0.6420	0.6727 0.6490	0.7923 0.6439	0.6184 0.6705	0.6891	Ave		0.6722			0.0500	7.9		15.0			
Isophorone	1.1040	1.0665 1.1338	1.1790 1.1344	1.0819 1.1772	1.2126	Ave		1.1362			0.0500	4.5		15.0			
2-Nitrophenol	0.1781	0.1850 0.1904	0.1811 0.1904	0.1682 0.2004	0.1921	Ave		0.1857			0.0500	5.3		15.0			
2,4-Dimethylphenol	0.4800	0.4712 0.4913	0.5137 0.4837	0.4750 0.5130	0.5133	Ave		0.4926			0.0500	3.7		15.0			
Benzoic acid	0.1995	+++++ 0.2358	0.1028 0.2345	0.1349 0.2415	0.2022	Lin1	-0.349	0.2419			0.0500				0.9970		0.9950
Bis(2-chloroethoxy)methane	0.5702	0.5331 0.5812	0.5618 0.5791	0.5247 0.6053	0.6177	Ave		0.5716			0.0500	5.6		15.0			
2,4-Dichlorophenol	0.2902	0.2948 0.3047	0.2884 0.3075	0.2822 0.3116	0.2951	Ave		0.2968			0.0500	3.4		15.0			
1,2,4-Trichlorobenzene	0.3343	0.3302 0.3276	0.3315 0.3294	0.3063 0.3433	0.3149	Ave		0.3272			0.0500	3.5		15.0			
Naphthalene	1.2289 1.0156	1.0718 1.0465	1.0852 1.0599	0.9615 1.0866	1.0631	Ave		1.0688			0.0500	6.7		15.0			
4-Chloroaniline	0.4610	0.4463 0.4724	0.4490 0.4946	0.4353 0.4786	0.4961	Ave		0.4667			0.0500	4.8		15.0			
2,6-Dichlorophenol	0.2855	0.2885 0.2956	0.2938 0.2947	0.2780 0.3053	0.2928	Ave		0.2918			0.0500	2.7		15.0			
Hexachlorobutadiene	0.2211	0.2132 0.2203	0.2359 0.2193	0.2092 0.2292	0.2127	Ave		0.2201			0.0500	4.0		15.0			
Caprolactam	0.1192	0.1199 0.1302	0.1212 0.1288	0.1157 0.1339	0.1326	Ave		0.1252			0.0500	5.6		15.0			
4-Chloro-3-methylphenol	0.4108	0.4074 0.4299	0.3827 0.4328	0.3981 0.4461	0.4328	Ave		0.4176			0.0500	5.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	0.8351 0.6775	0.6562 0.7146	0.6903 0.7062	0.6380 0.7325	0.6665	Ave		0.7019			0.0500	8.3		15.0			
1-Methylnaphthalene	0.6723 0.5733	0.5702 0.6008	0.5531 0.6093	0.5505 0.6347	0.5908	Ave		0.5950			0.0500	6.7		15.0			
Hexachlorocyclopentadiene	 0.3784	0.3525 0.3926	0.3802 0.3932	0.3349 0.3928	0.3666	Ave		0.3739			0.0500	5.7		15.0			
1,2,4,5-Tetrachlorobenzene	 0.5843	0.5883 0.5887	0.5811 0.5766	0.5601 0.5772	0.5554	Ave		0.5765			0.0500	2.2		15.0			
2,4,6-Trichlorophenol	 0.3830	0.3700 0.4009	0.3764 0.3974	0.3609 0.4102	0.3772	Ave		0.3845			0.0500	4.4		15.0			
2,4,5-Trichlorophenol	 0.3922	0.4094 0.4128	0.3849 0.4070	0.3853 0.4136	0.4060	Ave		0.4014			0.0500	3.0		15.0			
1,1'-Biphenyl	1.7681 1.3332	1.3588 1.4155	1.3748 1.3825	1.2370 1.3946	1.3679	Ave		1.4036			0.0500	10.4		15.0			
2-Chloronaphthalene	1.3999 1.0796	1.0820 1.1053	1.0291 1.0847	1.0152 1.1262	1.0724	Ave		1.1105			0.0500	10.2		15.0			
2-Nitroaniline	 0.5578	0.5352 0.5861	0.5437 0.5635	0.5280 0.5652	0.6234	Ave		0.5629			0.0500	5.4		15.0			
Dimethyl phthalate	 1.2330	1.2424 1.2778	1.2585 1.2541	1.1874 1.2429	1.2916	Ave		1.2485			0.0500	2.5		15.0			
1,3-Dinitrobenzene	 0.2046	0.1901 0.2115	0.1623 0.2102	0.1964 0.2133	0.2134	Ave		0.2002			0.0500	8.8		15.0			
2,6-Dinitrotoluene	 0.2898	0.3101 0.3050	0.2844 0.2894	0.2726 0.2906	0.2970	Ave		0.2924			0.0500	4.0		15.0			
Acenaphthylene	1.8456 1.6814	1.6488 1.7816	1.6312 1.7309	1.5942 1.7790	1.7431	Ave		1.7151			0.0500	4.8		15.0			
3-Nitroaniline	 0.2812	0.2856 0.2968	0.2980 0.2875	0.2828 0.2965	0.3035	Ave		0.2915			0.0500	2.8		15.0			
2,4-Dinitrophenol	 0.1700	+++++ 0.2032	0.1107 0.2076	0.1232 0.2163	0.1684	Lin	-0.498	0.2211			0.0500				0.9960		0.9950
Acenaphthene	1.3037 1.0727	1.0699 1.1082	1.0937 1.1174	1.0568 1.1280	1.0923	Ave		1.1159			0.0500	6.6		15.0			
4-Nitrophenol	 0.2689	0.2408 0.3028	0.2835 0.2850	0.2669 0.2847	0.2806	Ave		0.2767			0.0500	6.6		15.0			
2,4-Dinitrotoluene	 0.3677	0.3498 0.4012	0.3797 0.3971	0.3639 0.4042	0.3914	Ave		0.3819			0.0500	5.2		15.0			
Dibenzofuran	1.5993 1.4875	1.4652 1.5932	1.5116 1.5433	1.4256 1.5714	1.4703	Ave		1.5186			0.0500	4.1		15.0			
2,3,4,6-Tetrachlorophenol	 0.3259	0.3219 0.3383	0.3004 0.3322	0.3094 0.3366	0.3210	Ave		0.3232			0.0500	4.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Diethyl phthalate	1.1650	1.3756 1.2425	1.3455 1.2299	1.2327 1.2874	1.2000	Ave		1.2598			0.0500	5.7		15.0			
4-Chlorophenyl phenyl ether	0.6374	0.6737 0.6755	0.6929 0.6488	0.6238 0.6529	0.5725	Ave		0.6472			0.0500	5.8		15.0			
4-Nitroaniline	0.2854	0.2800 0.3163	0.2697 0.3035	0.2632 0.3057	0.2347	Ave		0.2823			0.0500	9.4		15.0			
Fluorene	1.3697 1.2381	1.3615 1.3323	1.2757 1.2839	1.2132 1.3001	1.0977	Ave		1.2747			0.0500	6.6		15.0			
4,6-Dinitro-2-methylphenol	0.1467	0.0592 0.1469	0.0965 0.1343	0.1068 0.1534	0.1370	Lin1	-0.103	0.1481			0.0500				0.9970		0.9950
N-Nitrosodiphenylamine	0.6212	0.4738 0.5312	0.5336 0.4830	0.5143 0.5519	0.5926	Ave		0.5377			0.0500	9.4		15.0			
1,2-Diphenylhydrazine(as Azobenzene)	1.3306	0.9523 1.1418	1.1141 0.9943	1.0630 1.0965	1.2530	Ave		1.1174			0.0500	11.4		15.0			
Azobenzene	1.3307	0.9443 1.1418	1.1161 0.9942	1.0624 1.0965	1.2534	Ave		1.1174			0.0500	11.4		15.0			
4-Bromophenyl phenyl ether	0.2473	0.1813 0.2152	0.1993 0.1812	0.1862 0.2071	0.2213	Ave		0.2049			0.0500	11.2		15.0			
Hexachlorobenzene	0.2340 0.2277	0.1862 0.1951	0.2106 0.1758	0.1796 0.1945	0.2123	Ave		0.2018			0.0500	10.2		15.0			
Atrazine	0.2409	0.1824 0.2153	0.2033 0.1887	0.1774 0.2184	0.2223	Ave		0.2061			0.0500	10.7		15.0			
Pentachlorophenol	0.1521	0.0836 0.1479	0.1142 0.1385	0.1128 0.1442	0.1399	Lin1	-0.069	0.1461			0.0500				0.9980		0.9950
Phenanthrene	1.1874 1.0779	1.0935 1.0404	1.0534 0.9895	0.9313 1.0808	0.9982	Ave		1.0503			0.0500	7.0		15.0			
Anthracene	1.1108 1.0803	1.0500 1.0551	1.0414 1.0188	0.9615 1.1049	1.0250	Ave		1.0498			0.0500	4.4		15.0			
Carbazole	1.0216	0.9300 1.0110	0.9060 0.9526	0.8023 0.9429	0.9367	Ave		0.9379			0.0500	7.2		15.0			
Di-n-butyl phthalate	1.3370	1.1699 1.3093	0.9975 1.2310	0.9217 1.2303	1.2010	Ave		1.1747			0.0500	12.3		15.0			
Fluoranthene	1.0902 1.3564	1.1516 1.3430	1.2793 1.1693	1.0115 1.2653	1.2459	Ave		1.2125			0.0500	9.5		15.0			
Benzidine	0.6447	0.4344 0.6789	0.5425 0.6490	0.5206 0.5945	0.5765	Ave		0.5801			0.0500	13.8		15.0			
Pyrene	1.0397 1.1000	1.0764 1.1311	1.1883 1.1228	0.9676 1.1378	1.0971	Ave		1.0956			0.0500	5.8		15.0			
Butyl benzyl phthalate	0.5017	0.4580 0.5142	0.5591 0.5009	0.5195 0.5155	0.5055	Ave		0.5093			0.0500	5.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bis(2-ethylhexyl) phthalate	0.6600	0.6531 0.6790	0.6680 0.6860	0.6667 0.6946	0.7013	Ave		0.6761			0.0500	2.5		15.0			
3,3'-Dichlorobenzidine	0.3627	0.3325 0.3793	0.3630 0.3785	0.3586 0.3874	0.3541	Ave		0.3645			0.0500	4.8		15.0			
Benzo[a]anthracene	1.3040 1.1016	1.0922 1.1193	1.1434 1.1111	1.0262 1.1355	1.0821	Ave		1.1239			0.0500	6.7		15.0			
Chrysene	1.1271 1.0186	1.0190 1.0356	1.0391 1.0249	0.9270 1.0548	0.9990	Ave		1.0272			0.0500	5.1		15.0			
Di-n-octyl phthalate	1.4062	1.3013 1.4613	1.4038 1.3817	1.3461 1.5026	1.4631	Ave		1.4083			0.0500	4.7		15.0			
Benzo[b]fluoranthene	1.3889 1.2245	1.1952 1.2273	1.1763 1.1601	1.1022 1.2301	1.1434	Ave		1.2053			0.0500	6.7		15.0			
Benzo[k]fluoranthene	1.2849 1.2268	1.1423 1.2299	1.2183 1.2687	1.1439 1.2170	1.1941	Ave		1.2140			0.0500	4.0		15.0			
Benzo[a]pyrene	1.1605 1.1620	1.1566 1.1723	1.1252 1.1646	1.0489 1.2465	1.1208	Ave		1.1508			0.0500	4.6		15.0			
Indeno[1,2,3-cd]pyrene	1.2320 1.2555	1.0666 1.2766	1.1171 1.1798	1.1098 1.0909	1.1582	Ave		1.1652			0.0500	6.5		15.0			
Dibenz(a,h)anthracene	1.0367 1.0392	0.8693 1.0359	0.9392 0.9809	0.8878 0.9113	0.9517	Ave		0.9613			0.0500	6.8		15.0			
Benzo[g,h,i]perylene	1.1532 0.9492	0.9669 0.9483	0.9744 0.9256	0.9570 0.8385	0.9824	Ave		0.9662			0.0500	8.5		15.0			
2-Fluorophenol (Surr)	1.5927	1.3820 1.6570	1.2962 1.7318	1.3845 +++++	1.2627	Ave		1.4724			0.0500	12.6		15.0			
Phenol-d5 (Surr)	2.2418	2.2839 2.2638	2.3549 2.1349	2.1700 2.3096	1.8618	Ave		2.2026			0.0500	7.0		15.0			
Nitrobenzene-d5 (Surr)	0.6936 0.7097	0.6931 0.7037	0.8904 0.7067	0.6589 0.7375	0.7589	Ave		0.7281			0.0500	9.2		15.0			
2-Fluorobiphenyl (Surr)	1.6811 1.2861	1.3263 1.3440	1.3180 1.3107	1.2046 1.3274	1.3057	Ave		1.3449			0.0500	9.8		15.0			
2,4,6-Tribromophenol (Surr)	0.1434	0.1649 0.1543	0.1489 0.1457	0.1472 0.1523	0.1281	Ave		0.1481			0.0500	7.1		15.0			
Terphenyl-d14 (Surr)	0.9402 0.8081	0.7228 0.8301	0.8645 0.8080	0.7385 0.8308	0.7821	Ave		0.8139			0.0500	8.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177011/6	50420006.D
Level 2	STD2 240-177011/5	50420005.D
Level 3	STD3 240-177011/4	50420004.D
Level 4	STD4 240-177011/3	50420003.D
Level 5	STD5 240-177011/2	50420002.D
Level 6	STD6 240-177011/10	50420010.D
Level 7	STD7 240-177011/9	50420009.D
Level 8	STD8 240-177011/8	50420008.D
Level 9	STD9 240-177011/7	50420007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	250452	12415 432945	28154 651861	46428 796449	113568	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	412035	22836 776721	49598 1055854	72164 1219548	185034	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	690245	31368 1343545	78404 1667107	122879 1982612	297494	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzaldehyde	DCB	Ave	1070982	58929 1572425	134461 2041192	217627 2405523	417301	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenol	DCB	Ave	724815	38586 1188566	88772 1613653	145439 1983859	304234	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Aniline	DCB	Ave	909306	52486 1469438	110321 1993104	176128 2317533	375559	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	630143	36164 984085	71684 1336553	113541 1599325	259808	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	428031	24152 683952	49226 923734	81014 1096775	204000	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	449776	25132 740346	53223 1012760	87512 1213423	228339	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	465688	24652 778292	54926 1055490	85074 1239675	223162	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	340396	17314 551283	39819 755608	66079 932286	172419	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dichlorobenzene	DCB	Ave	431764	22513 721454	50376 983121	78676 1163941	219958	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	467486	23011 789417	55709 1078178	84913 1254684	247678	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
bis (2-chloroisopropyl) ether	DCB	Ave	527630	25460 803960	64371 1086251	78723 1355437	248931	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indene	DCB	Ave	1678273	88266 2861485	203257 3910748	297237 4722832	850468	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
3 & 4 Methylphenol	DCB	Ave	490810	26169 826942	60636 1136122	86287 1380158	243462	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	520644	25861 866229	64956 1170582	92866 1433453	256699	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	715238	36798 1222345	86292 1643167	126883 2015330	351915	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	202668	11143 374905	24650 514178	39306 612821	120045	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	625710	38625 1228211	89165 1652384	127650 1967292	402489	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1076036	61236 2145665	132684 2910921	223337 3453992	708267	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	173620	10624 360286	20385 488712	34713 587986	112221	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	467864	27053 929670	57805 1241302	98044 1505005	299810	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Lin1	388824	+++++ 892363	23148 1203448	55684 1417052	236210	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	555739	30610 1099899	63225 1486134	108313 1775944	360808	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	282843	16926 576680	32457 788964	58252 914165	172392	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	325786	18960 620048	37301 845301	63229 1007107	183941	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	15960 989882	61542 1980465	122125 2719900	198476 3188013	620980	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	449363	25628 894045	50525 1269310	89852 1404257	289781	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dichlorophenol	NPT	Ave	278271	16565 559350	33065 756155	57397 895770	171027	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	215473	12242 416879	26546 562810	43195 672471	124258	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Caprolactam	NPT	Ave	232280	13773 492788	27278 661152	47758 785426	154883	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
4-Chloro-3-methylphenol	NPT	Ave	400395	23393 813536	43072 1110751	82187 1308872	252818	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	10845 660361	37676 1352305	77680 1812135	131706 2149188	389317	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1-Methylnaphthalene	NPT	Ave	8731 558738	32739 1136983	62239 1563474	113631 1862085	345075	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Hexachlorocyclopentadiene	ANT	Ave	222471	11701 444101	25705 627336	41670 734839	126881	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	343522	19527 665913	39289 919927	69690 1079990	192205	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	225159	12282 453458	25449 633938	44903 767417	130537	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	230561	13589 466898	26021 649252	47946 773840	140499	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,1'-Biphenyl	ANT	Ave	12497 783827	45100 1601199	92958 2205577	153907 2609206	473395	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	9895 634735	35914 1250248	69583 1730417	126318 2107044	371151	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Ave	327945	17765 662998	36760 898959	65699 1057455	215737	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	724944	41236 1445412	85088 2000756	147743 2325490	446994	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dinitrobenzene	ANT	Ave	120299	6308 239221	10972 335275	24433 399169	73857	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Ave	170395	10291 345048	19230 461665	33917 543717	102783	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	13045 988563	54725 2015345	110288 2761388	198356 3328512	603245	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Ave	165332	9479 335723	20148 458690	35188 554662	105023	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Lin	199890	+++++ 459799	14970 662271	30662 809332	116570	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Acenaphthene	ANT	Ave	9215 630690	35510 1253565	73947 1782594	131490 2110449	378038	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitrophenol	ANT	Ave	316160	15982 684980	38334 909471	66426 1065502	194251	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
2,4-Dinitrotoluene	ANT	Ave	216205	11611 453778	25674 633526	45284 756173	135453	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	11304 874539	48630 1802230	102207 2462138	177381 2940156	508841	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	191582	10685 382719	20309 530025	38497 629702	111077	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	684970	45657 1405436	90972 1962074	153382 2408629	415298	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	374725	22361 764132	46852 1035111	77614 1221605	198146	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Ave	167796	9292 357822	18232 484148	32749 571890	81243	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Fluorene	ANT	Ave	9681 727918	45190 1507017	86254 2048241	150950 2432427	379911	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4,6-Dinitro-2-methylphenol	PHN	Lin1	 260952	8557 603382	23579 838422	48344 1014166	135939	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
N-Nitrosodiphenylamine	PHN	Ave	 1105278	68536 2181833	130359 3015749	232813 3649375	587851	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	 1183693	68881 2344695	136085 3104162	240611 3625120	621470	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	 1183790	68299 2344821	136330 3103823	240473 3624950	621673	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	 220036	13116 441862	24343 565762	42148 684530	109755	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobenzene	PHN	Ave	2911 202550	13471 400652	25722 548893	40661 643091	105274	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Atrazine	PHN	Ave	 428554	26388 884159	49677 1177907	80307 1444150	220543	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pentachlorophenol	PHN	Lin1	 270585	12090 607473	27906 864536	51075 953443	138761	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	14773 958907	79088 2136444	128672 3089079	210811 3573119	495077	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	13820 961032	75943 2166727	127200 3180671	217629 3652900	508399	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Ave	 908795	67265 2076150	110668 2973846	181612 3117134	464578	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Ave	 1189386	84614 2688668	121845 3843140	208631 4067476	595667	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Ave	13563 1206648	83292 2757839	156263 3650270	228948 4183231	617930	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Ave	 1509185	64861 3193120	149760 4240526	259502 4548704	701742	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pyrene	CRY	Ave	14841 1287533	80367 2659722	164008 3668016	241147 4352476	667703	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Ave	 587187	34193 1209148	77170 1636215	129472 1972015	307666	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	 772509	48766 1596675	92201 2240970	166156 2657049	426816	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	 849183	49655 1783742	100198 2472940	178728 2963930	431003	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Benzo[a]anthracene	CRY	Ave	18614 1289434	81549 2631956	157819 3629694	255751 4343670	658559	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	16089 1192213	76081 2435297	143418 3348051	231040 4035079	608000	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177011

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Di-n-octyl phthalate	PRY	Ave	1343351	79206 2860004	159946 3907617	282511 5115692	737254	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[b]fluoranthene	PRY	Ave	16357 1169783	72747 2402031	134018 3280855	231320 4188034	576132	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	15132 1171945	69527 2407128	138809 3588251	240080 4143610	601666	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	13667 1110022	70401 2294348	128202 3293663	220146 4244066	564746	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	14509 1199340	64921 2498527	127282 3336574	232922 3714112	583590	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	12210 992770	52913 2027396	107009 2774062	186338 3102596	479534	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[g,h,i]perylene	PRY	Ave	13582 906776	58855 1856012	111014 2617903	200853 2854916	495009	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol (Surr)	DCB	Ave	482119	22354 788012	44846 1184060	85669 +++++	189727	10.0	0.500 15.0	1.00 20.0	2.00 +++++	5.00
Phenol-d5 (Surr)	DCB	Ave	678589	36942 1076581	81474 1459687	134276 1816095	279750	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5 (Surr)	NPT	Ave	9007 691689	39795 1331714	100203 1813424	136022 2163859	443304	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	11882 756135	44021 1520261	89117 2091076	149886 2483500	451866	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	84325	5472 174572	10068 232521	18319 285003	44343	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14 (Surr)	CRY	Ave	13421 945831	53965 1952012	119323 2639723	184049 3178109	475981	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

Report Date: 21-Apr-2015 07:00:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420002.D
Lims ID: std5 lst1
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Apr-2015 08:49:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-002
Misc. Info.: STD5 LST1STD5 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:49 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 09:18:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.378	6.378	0.000	86	120205	4.00	4.00	
* 2 Naphthalene-d8	136	7.494	7.494	0.000	98	467285	4.00	4.00	
* 3 Acenaphthene-d10	164	9.004	9.004	0.000	79	276868	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	98	396785	4.00	4.00	
* 5 Chrysene-d12	240	12.572	12.572	0.000	79	486868	4.00	4.00	
* 6 Perylene-d12	264	14.361	14.361	0.000	98	403106	4.00	4.00	
$ 7 2-Fluorophenol	112	5.162	5.162	0.000	90	189727	5.00	4.29	
$ 8 Phenol-d5	99	6.013	6.013	0.000	78	279750	5.00	4.23	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	82	443304	5.00	5.21	
$ 10 2-Fluorobiphenyl (Surr)	172	8.398	8.398	0.000	97	451866	5.00	4.85	
$ 11 2,4,6-Tribromophenol	330	9.672	9.672	0.000	83	44343	5.00	4.33	
$ 12 Terphenyl-d14	244	11.601	11.601	0.000	98	475981	5.00	4.80	
25 1,4-Dioxane	88	3.079	3.079	0.000	92	113568	5.00	4.45	
26 N-Nitrosodimethylamine	74	3.560	3.560	0.000	86	185034	5.00	4.35	
27 Pyridine	79	3.618	3.618	0.000	81	297494	5.00	4.34	
41 Benzaldehyde	77	5.984	5.984	0.000	81	417301	10.0	8.32	
43 Phenol	94	6.027	6.027	0.000	84	304234	5.00	4.24	
44 Aniline	93	6.075	6.075	0.000	79	375559	5.00	4.21	
69 Bis(2-chloroethyl)ether	93	6.114	6.114	0.000	93	259808	5.00	4.32	
46 2-Chlorophenol	128	6.196	6.196	0.000	85	204000	5.00	4.86	
243 n-Decane	57	6.224	6.224	0.000	96	272704	NC	NC	
47 1,3-Dichlorobenzene	146	6.335	6.335	0.000	79	228339	5.00	5.03	
48 1,4-Dichlorobenzene	146	6.398	6.398	0.000	66	223162	5.00	4.84	
49 Benzyl alcohol	108	6.474	6.474	0.000	82	172419	5.00	5.09	
50 1,2-Dichlorobenzene	146	6.537	6.537	0.000	77	219958	5.00	5.12	
51 2-Methylphenol	108	6.566	6.566	0.000	78	247678	5.00	5.30	
53 2,2'-oxybis[1-chloropropan	45	6.595	6.595	0.000	97	248931	5.00	5.05	
52 Indene	115	6.614	6.614	0.000	67	850468	10.0	10.0	
21 3 & 4 Methylphenol	108	6.691	6.691	0.000	94	243462	5.00	4.92	
57 N-Nitrosodi-n-propylamine	70	6.705	6.705	0.000	96	256699	5.00	4.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.715	6.715	0.000	79	351915	5.00	4.91	
61 Hexachloroethane	117	6.840	6.840	0.000	89	120045	5.00	5.49	
62 Nitrobenzene	77	6.869	6.869	0.000	70	402489	5.00	5.13	
64 Isophorone	82	7.071	7.071	0.000	94	708267	5.00	5.34	
66 2-Nitrophenol	139	7.153	7.153	0.000	78	112221	5.00	5.17	
65 2,4-Dimethylphenol	107	7.157	7.157	0.000	94	299810	5.00	5.21	
71 Benzoic acid	122	7.196	7.196	0.000	79	236210	10.0	9.81	
70 Bis(2-chloroethoxy)methane	93	7.234	7.234	0.000	90	360808	5.00	5.40	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	90	172392	5.00	4.97	
74 1,2,4-Trichlorobenzene	180	7.441	7.441	0.000	86	183941	5.00	4.81	
75 Naphthalene	128	7.513	7.513	0.000	97	620980	5.00	4.97	
76 4-Chloroaniline	127	7.532	7.532	0.000	40	289781	5.00	5.32	
77 2,6-Dichlorophenol	162	7.552	7.552	0.000	57	171027	5.00	5.02	
79 Hexachlorobutadiene	225	7.619	7.619	0.000	86	124258	5.00	4.83	
84 Caprolactam	113	7.807	7.807	0.000	77	154883	10.0	10.6	
86 4-Chloro-3-methylphenol	107	7.922	7.922	0.000	78	252818	5.00	5.18	
87 2-Methylnaphthalene	142	8.105	8.105	0.000	80	389317	5.00	4.75	
88 1-Methylnaphthalene	142	8.191	8.191	0.000	79	345075	5.00	4.96	
89 Hexachlorocyclopentadiene	237	8.244	8.244	0.000	88	126881	5.00	4.90	
91 1,2,4,5-Tetrachlorobenzene	216	8.249	8.249	0.000	93	192205	5.00	4.82	
92 2,4,6-Trichlorophenol	196	8.331	8.331	0.000	85	130537	5.00	4.91	
93 2,4,5-Trichlorophenol	196	8.364	8.364	0.000	84	140499	5.00	5.06	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	98	473395	5.00	4.87	
100 2-Chloronaphthalene	162	8.523	8.523	0.000	98	371151	5.00	4.83	
102 2-Nitroaniline	65	8.581	8.581	0.000	69	215737	5.00	5.54	
105 Dimethyl phthalate	163	8.715	8.715	0.000	91	446994	5.00	5.17	
106 1,3-Dinitrobenzene	168	8.749	8.749	0.000	80	73857	5.00	5.33	
107 2,6-Dinitrotoluene	165	8.773	8.773	0.000	57	102783	5.00	5.08	
109 Acenaphthylene	152	8.884	8.884	0.000	94	603245	5.00	5.08	
110 3-Nitroaniline	138	8.927	8.927	0.000	74	105023	5.00	5.21	
111 2,4-Dinitrophenol	184	9.014	9.014	0.000	60	116570	10.0	9.87	
112 Acenaphthene	153	9.028	9.028	0.000	89	378038	5.00	4.89	
113 4-Nitrophenol	109	9.038	9.038	0.000	40	194251	10.0	10.1	
114 2,4-Dinitrotoluene	165	9.124	9.124	0.000	79	135453	5.00	5.12	
116 Dibenzofuran	168	9.172	9.172	0.000	85	508841	5.00	4.84	
119 2,3,4,6-Tetrachlorophenol	232	9.268	9.268	0.000	74	111077	5.00	4.97	
121 Diethyl phthalate	149	9.307	9.307	0.000	93	415298	5.00	4.76	
247 Hexadecane	57	9.316	9.316	0.000	96	294474	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.442	9.442	0.000	93	198146	5.00	4.42	
125 4-Nitroaniline	138	9.446	9.446	0.000	72	81243	5.00	4.16	
126 Fluorene	166	9.466	9.466	0.000	46	379911	5.00	4.31	
128 4,6-Dinitro-2-methylphenol	198	9.480	9.480	0.000	91	135939	10.0	9.95	
131 N-Nitrosodiphenylamine	169	9.533	9.533	0.000	96	587851	10.0	11.0	
132 1,2-Diphenylhydrazine	77	9.576	9.576	0.000	99	621470	5.00	5.61	
133 Azobenzene	77	9.576	9.576	0.000	95	621673	5.00	5.61	
139 4-Bromophenyl phenyl ether	248	9.860	9.860	0.000	71	109755	5.00	5.40	
141 Hexachlorobenzene	284	9.951	9.951	0.000	81	105274	5.00	5.26	
142 Atrazine	200	9.956	9.956	0.000	84	220543	10.0	10.8	
244 n-Octadecane	57	10.096	10.096	0.000	88	280916	NC	NC	
143 Pentachlorophenol	266	10.105	10.105	0.000	80	138761	10.0	10.0	
148 Phenanthrene	178	10.293	10.293	0.000	83	495077	5.00	4.75	
149 Anthracene	178	10.336	10.336	0.000	88	508399	5.00	4.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.451	10.451	0.000	84	464578	5.00	4.99	
154 Di-n-butyl phthalate	149	10.692	10.692	0.000	99	595667	5.00	5.11	
159 Fluoranthene	202	11.312	11.312	0.000	99	617930	5.00	5.14	
160 Benzidine	184	11.384	11.384	0.000	88	701742	10.0	9.94	
161 Pyrene	202	11.519	11.519	0.000	97	667703	5.00	5.01	
168 Butyl benzyl phthalate	149	11.976	11.976	0.000	89	307666	5.00	4.96	
173 Bis(2-ethylhexyl) phthalat	149	12.461	12.461	0.000	95	426816	5.00	5.19	
175 3,3'-Dichlorobenzidine	252	12.495	12.495	0.000	56	431003	10.0	9.71	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	88	658559	5.00	4.81	
178 Chrysene	228	12.601	12.601	0.000	92	608000	5.00	4.86	
180 Di-n-octyl phthalate	149	13.125	13.125	0.000	99	737254	5.00	5.19	
182 Benzo[b]fluoranthene	252	13.803	13.803	0.000	83	576132	5.00	4.74	
183 Benzo[k]fluoranthene	252	13.837	13.837	0.000	85	601666	5.00	4.92	
184 Benzo[a]pyrene	252	14.279	14.279	0.000	73	564746	5.00	4.87	
188 Indeno[1,2,3-cd]pyrene	276	16.304	16.304	0.000	94	583590	5.00	4.97	
189 Dibenz(a,h)anthracene	278	16.313	16.313	0.000	80	479534	5.00	4.95	
190 Benzo[g,h,i]perylene	276	16.910	16.910	0.000	91	495009	5.00	5.08	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLIST1 L5 W_00005 Amount Added: 1.00 Units: mL

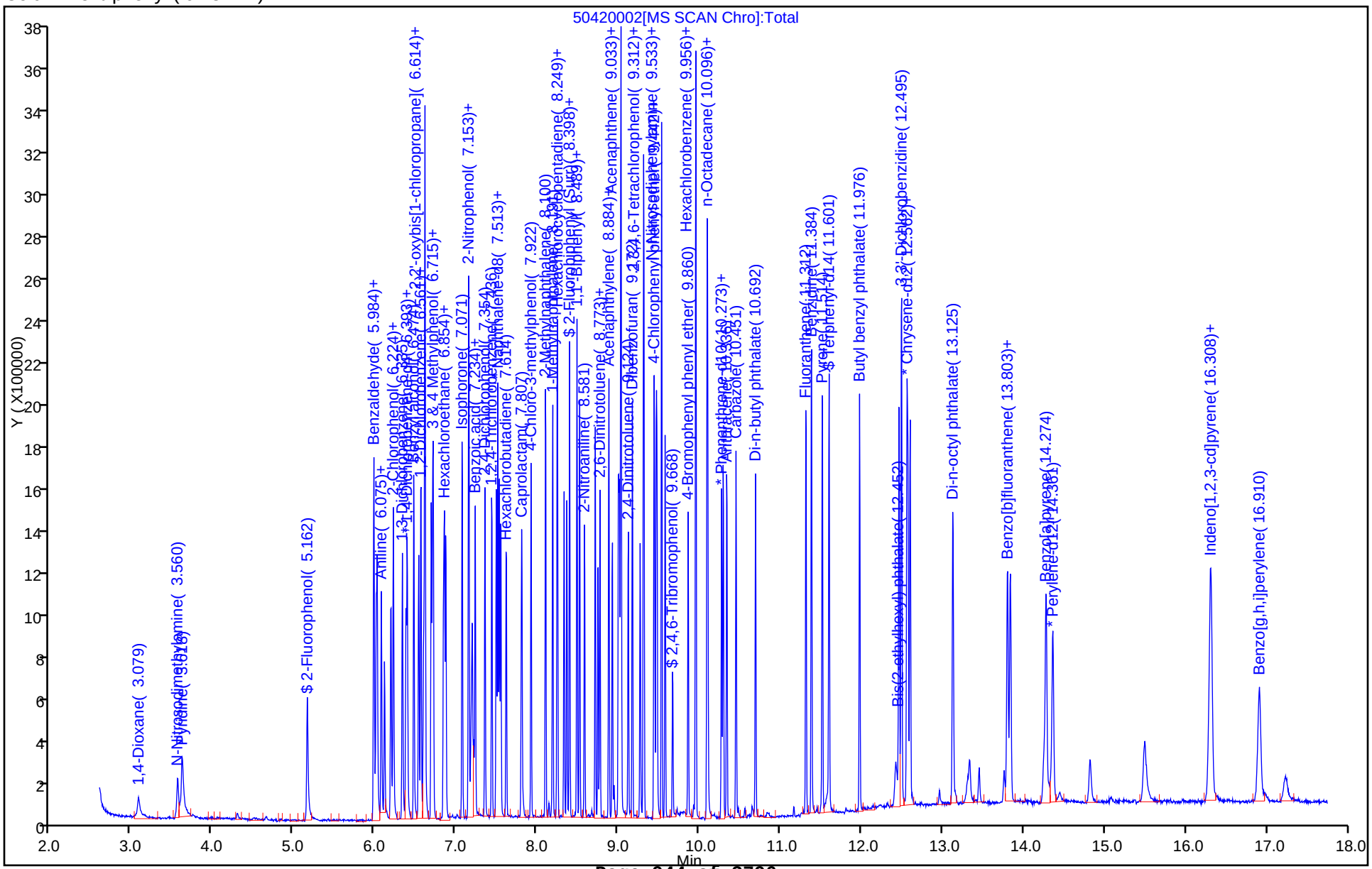
Report Date: 21-Apr-2015 07:00:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420002.D

Injection Date:	20-Apr-2015 08:49:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std5 lst1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D
Lims ID: std4 lst1
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Apr-2015 09:14:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-003
Misc. Info.: STD4 LST1STD4 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:51 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 09:44:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.378	0.004	93	123755	4.00	4.00	
* 2 Naphthalene-d8	136	7.493	7.494	-0.001	97	412858	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.004	-0.001	76	248849	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	94	452708	4.00	4.00	
* 5 Chrysene-d12	240	12.571	12.572	-0.001	79	498464	4.00	4.00	
* 6 Perylene-d12	264	14.355	14.361	-0.006	95	419757	4.00	4.00	
$ 7 2-Fluorophenol	112	5.166	5.162	0.004	91	85669	2.00	1.88	
$ 8 Phenol-d5	99	6.012	6.013	-0.001	79	134276	2.00	1.97	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	83	136022	2.00	1.81	
$ 10 2-Fluorobiphenyl (Surr)	172	8.397	8.398	-0.001	98	149886	2.00	1.79	
$ 11 2,4,6-Tribromophenol	330	9.672	9.672	0.000	80	18319	2.00	1.99	
$ 12 Terphenyl-d14	244	11.600	11.601	-0.001	97	184049	2.00	1.81	
25 1,4-Dioxane	88	3.084	3.079	0.005	84	46428	2.00	1.77	M
26 N-Nitrosodimethylamine	74	3.564	3.560	0.004	84	72164	2.00	1.65	
27 Pyridine	79	3.622	3.618	0.004	93	122879	2.00	1.74	M
41 Benzaldehyde	77	5.983	5.984	-0.001	81	217627	4.00	4.21	
43 Phenol	94	6.027	6.027	0.000	87	145439	2.00	1.97	
44 Aniline	93	6.075	6.075	0.000	83	176128	2.00	1.92	
69 Bis(2-chloroethyl)ether	93	6.113	6.114	-0.001	92	113541	2.00	1.83	
46 2-Chlorophenol	128	6.195	6.196	-0.001	84	81014	2.00	1.87	
243 n-Decane	57	6.224	6.224	0.000	97	107156	NC	NC	
47 1,3-Dichlorobenzene	146	6.334	6.335	-0.001	80	87512	2.00	1.87	
48 1,4-Dichlorobenzene	146	6.397	6.398	-0.001	80	85074	2.00	1.79	
49 Benzyl alcohol	108	6.474	6.474	0.000	77	66079	2.00	1.90	
50 1,2-Dichlorobenzene	146	6.536	6.537	-0.001	84	78676	2.00	1.78	
51 2-Methylphenol	108	6.565	6.566	-0.001	74	84913	2.00	1.77	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.595	0.004	95	78723	2.00	1.55	
52 Indene	115	6.613	6.614	-0.001	75	297237	4.00	3.41	
21 3 & 4 Methylphenol	108	6.690	6.691	-0.001	93	86287	2.00	1.70	
57 N-Nitrosodi-n-propylamine	70	6.705	6.705	0.000	98	92866	2.00	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.714	6.715	-0.001	83	126883	2.00	1.72	
61 Hexachloroethane	117	6.844	6.840	0.004	86	39306	2.00	1.74	
62 Nitrobenzene	77	6.873	6.869	0.004	69	127650	2.00	1.84	
64 Isophorone	82	7.075	7.071	0.004	94	223337	2.00	1.90	
66 2-Nitrophenol	139	7.152	7.153	-0.001	78	34713	2.00	1.81	
65 2,4-Dimethylphenol	107	7.157	7.157	0.000	94	98044	2.00	1.93	
71 Benzoic acid	122	7.181	7.196	-0.015	74	55684	4.00	3.68	M
70 Bis(2-chloroethoxy)methane	93	7.234	7.234	0.000	94	108313	2.00	1.84	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	90	58252	2.00	1.90	
74 1,2,4-Trichlorobenzene	180	7.440	7.441	-0.001	87	63229	2.00	1.87	
75 Naphthalene	128	7.512	7.513	-0.001	91	198476	2.00	1.80	
76 4-Chloroaniline	127	7.532	7.532	0.000	47	89852	2.00	1.87	
77 2,6-Dichlorophenol	162	7.551	7.552	-0.001	58	57397	2.00	1.91	
79 Hexachlorobutadiene	225	7.618	7.619	-0.001	90	43195	2.00	1.90	
84 Caprolactam	113	7.801	7.807	-0.006	77	47758	4.00	3.70	
86 4-Chloro-3-methylphenol	107	7.921	7.922	-0.001	76	82187	2.00	1.91	
87 2-Methylnaphthalene	142	8.104	8.105	-0.001	85	131706	2.00	1.82	
88 1-Methylnaphthalene	142	8.190	8.191	-0.001	80	113631	2.00	1.85	
89 Hexachlorocyclopentadiene	237	8.243	8.244	-0.001	93	41670	2.00	1.79	
91 1,2,4,5-Tetrachlorobenzene	216	8.248	8.249	-0.001	90	69690	2.00	1.94	
92 2,4,6-Trichlorophenol	196	8.330	8.331	-0.001	86	44903	2.00	1.88	
93 2,4,5-Trichlorophenol	196	8.364	8.364	0.000	90	47946	2.00	1.92	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	98	153907	2.00	1.76	
100 2-Chloronaphthalene	162	8.522	8.523	-0.001	97	126318	2.00	1.83	
102 2-Nitroaniline	65	8.580	8.581	-0.001	68	65699	2.00	1.88	
105 Dimethyl phthalate	163	8.715	8.715	0.000	93	147743	2.00	1.90	
106 1,3-Dinitrobenzene	168	8.748	8.749	-0.001	81	24433	2.00	1.96	
107 2,6-Dinitrotoluene	165	8.772	8.773	-0.001	59	33917	2.00	1.86	
109 Acenaphthylene	152	8.883	8.884	-0.001	93	198356	2.00	1.86	
110 3-Nitroaniline	138	8.926	8.927	-0.001	79	35188	2.00	1.94	
111 2,4-Dinitrophenol	184	9.013	9.014	-0.001	78	30662	4.00	4.48	
112 Acenaphthene	153	9.027	9.028	-0.001	95	131490	2.00	1.89	
113 4-Nitrophenol	109	9.032	9.038	-0.006	62	66426	4.00	3.86	
114 2,4-Dinitrotoluene	165	9.123	9.124	-0.001	75	45284	2.00	1.91	
116 Dibenzofuran	168	9.171	9.172	-0.001	86	177381	2.00	1.88	
119 2,3,4,6-Tetrachlorophenol	232	9.268	9.268	0.000	76	38497	2.00	1.91	
121 Diethyl phthalate	149	9.311	9.307	0.004	94	153382	2.00	1.96	
247 Hexadecane	57	9.316	9.316	0.000	95	102593	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.442	-0.001	89	77614	2.00	1.93	
125 4-Nitroaniline	138	9.446	9.446	0.000	72	32749	2.00	1.86	
126 Fluorene	166	9.465	9.466	-0.001	98	150950	2.00	1.90	
128 4,6-Dinitro-2-methylphenol	198	9.479	9.480	-0.001	85	48344	4.00	3.58	
131 N-Nitrosodiphenylamine	169	9.532	9.533	-0.001	99	232813	4.00	3.83	
132 1,2-Diphenylhydrazine	77	9.575	9.576	-0.001	99	240611	2.00	1.90	
133 Azobenzene	77	9.575	9.576	-0.001	95	240473	2.00	1.90	
139 4-Bromophenyl phenyl ether	248	9.859	9.860	-0.001	70	42148	2.00	1.82	
141 Hexachlorobenzene	284	9.955	9.951	0.004	63	40661	2.00	1.78	
142 Atrazine	200	9.955	9.956	-0.001	82	80307	4.00	3.44	
244 n-Octadecane	57	10.095	10.096	-0.001	84	110069	NC	NC	
143 Pentachlorophenol	266	10.104	10.105	-0.001	82	51075	4.00	3.56	
148 Phenanthrene	178	10.292	10.293	-0.001	83	210811	2.00	1.77	
149 Anthracene	178	10.335	10.336	-0.001	88	217629	2.00	1.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.451	10.451	0.000	84	181612	2.00	1.71	
154 Di-n-butyl phthalate	149	10.691	10.692	-0.001	98	208631	2.00	1.57	
159 Fluoranthene	202	11.311	11.312	-0.001	99	228948	2.00	1.67	
160 Benzidine	184	11.379	11.384	-0.005	86	259502	4.00	3.59	
161 Pyrene	202	11.513	11.519	-0.006	94	241147	2.00	1.77	
168 Butyl benzyl phthalate	149	11.975	11.976	-0.001	90	129472	2.00	2.04	
173 Bis(2-ethylhexyl) phthalat	149	12.466	12.461	0.005	95	166156	2.00	1.97	
175 3,3'-Dichlorobenzidine	252	12.494	12.495	-0.001	55	178728	4.00	3.93	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	88	255751	2.00	1.83	
178 Chrysene	228	12.600	12.601	-0.001	90	231040	2.00	1.80	
180 Di-n-octyl phthalate	149	13.124	13.125	-0.001	98	282511	2.00	1.91	
182 Benzo[b]fluoranthene	252	13.798	13.803	-0.005	83	231320	2.00	1.83	
183 Benzo[k]fluoranthene	252	13.831	13.837	-0.006	97	240080	2.00	1.88	
184 Benzo[a]pyrene	252	14.274	14.279	-0.005	74	220146	2.00	1.82	
188 Indeno[1,2,3-cd]pyrene	276	16.303	16.304	-0.001	94	232922	2.00	1.90	
189 Dibenz(a,h)anthracene	278	16.313	16.313	0.000	73	186338	2.00	1.85	
190 Benzo[g,h,i]perylene	276	16.904	16.910	-0.006	87	200853	2.00	1.98	
S 191 Methyl Phenols,Total	100				0			3.46	
S 245 Total Cresols	100				0			3.46	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L4 W_00005 Amount Added: 1.00 Units: mL

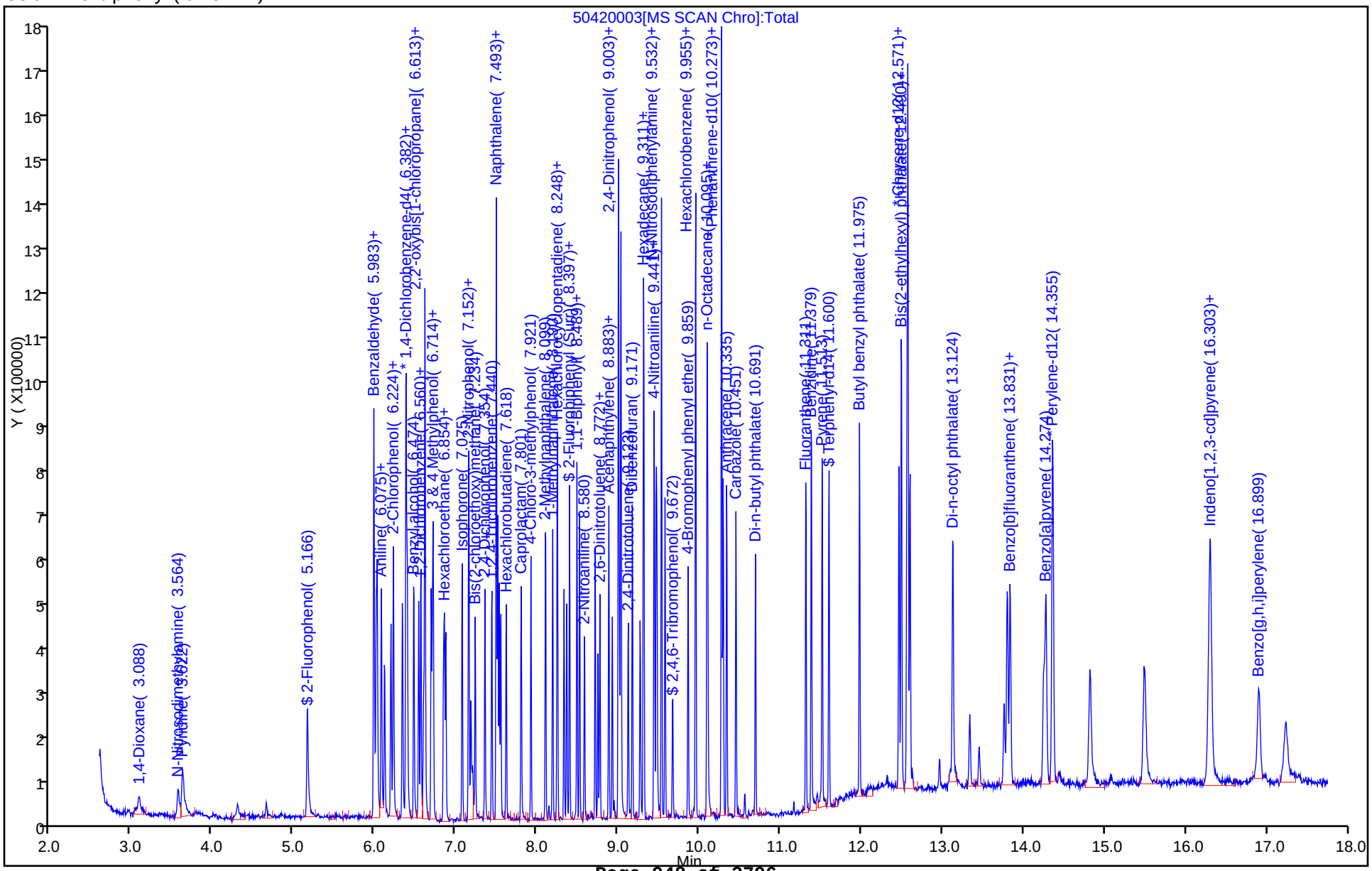
Report Date: 21-Apr-2015 07:00:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D

Injection Date:	20-Apr-2015 09:14:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std4 lst1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

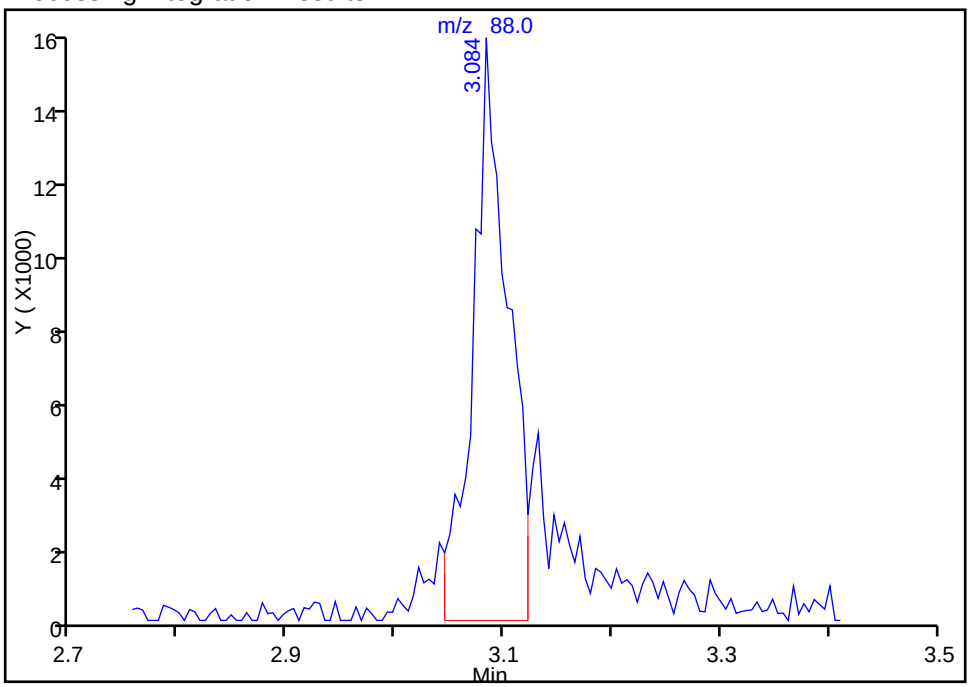
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D				
Injection Date:	20-Apr-2015 09:14:30	Instrument ID:	A4HP9		
Lims ID:	std4 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

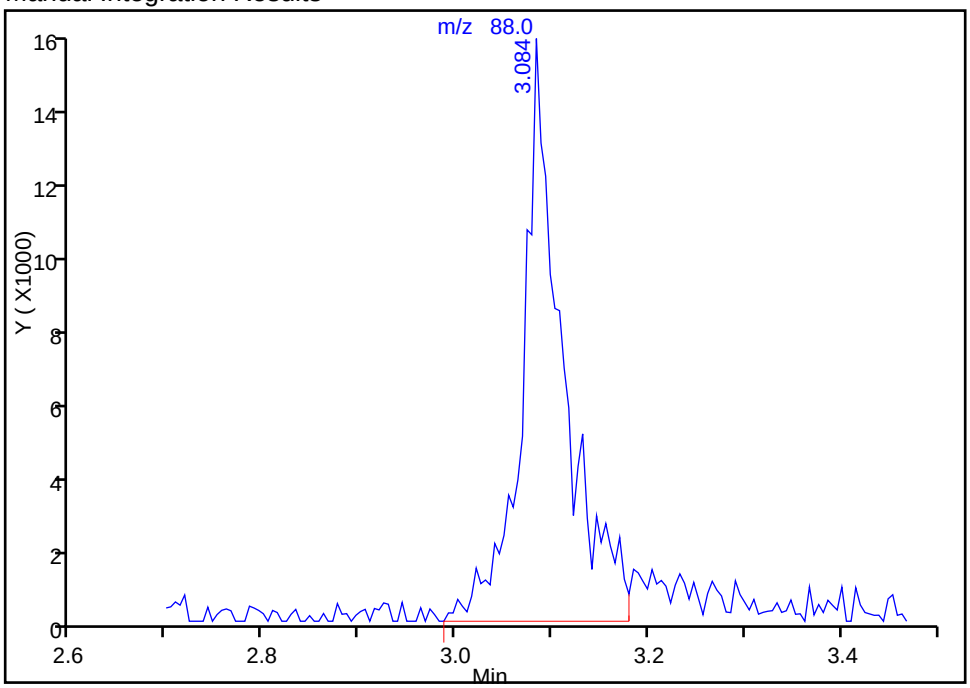
Processing Integration Results

RT: 3.08
Area: 35498
Amount: 1.725994
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 46428
Amount: 1.767662
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 09:44:39
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

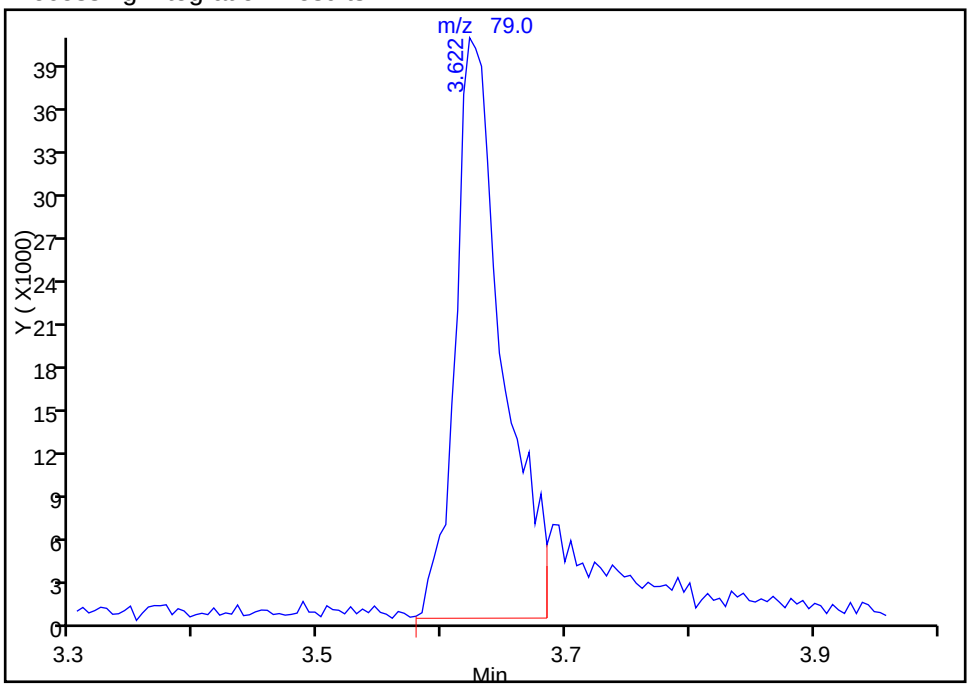
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D
Injection Date: 20-Apr-2015 09:14:30 Instrument ID: A4HP9
Lims ID: std4 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

27 Pyridine, CAS: 110-86-1

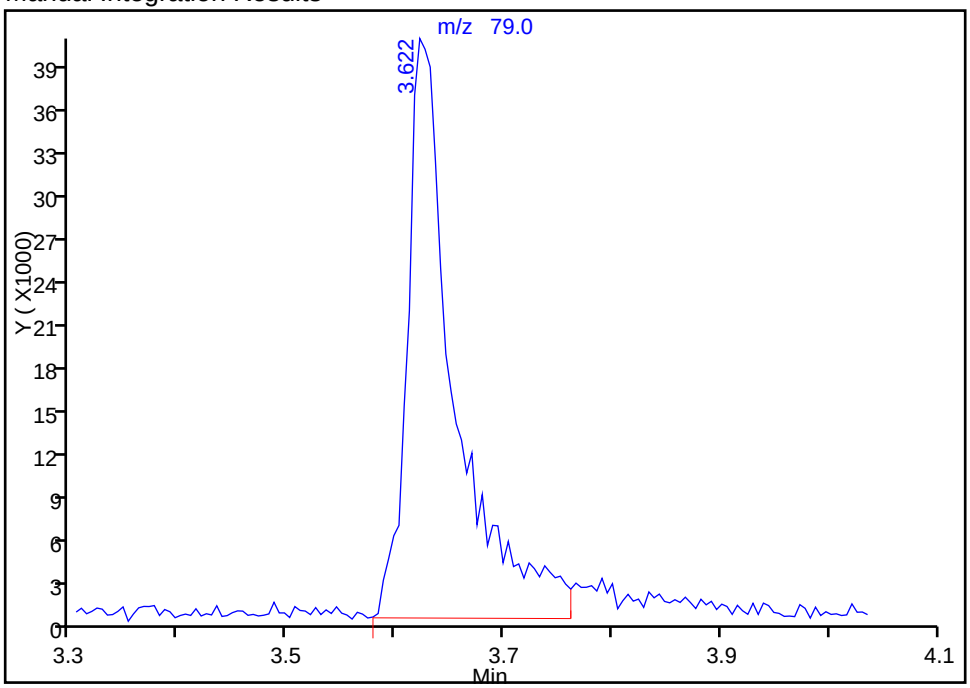
Processing Integration Results

RT: 3.62
Area: 106161
Amount: 1.856993
Amount Units: ng/ul



Manual Integration Results

RT: 3.62
Area: 122879
Amount: 1.742310
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 09:44:39
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

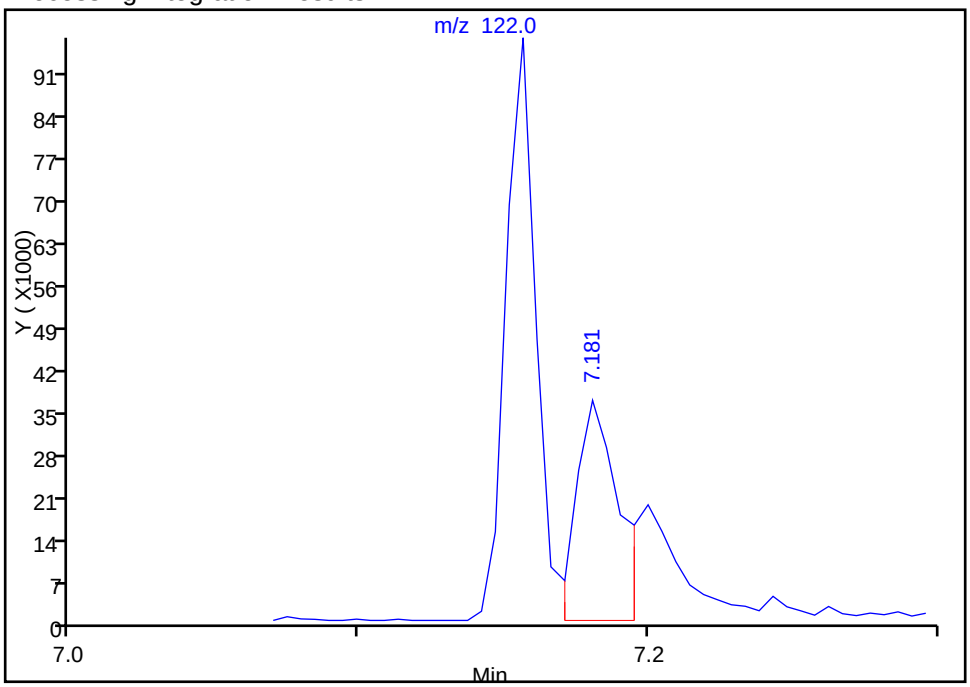
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D				
Injection Date:	20-Apr-2015 09:14:30	Instrument ID:	A4HP9		
Lims ID:	std4 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 Benzoic acid, CAS: 65-85-0

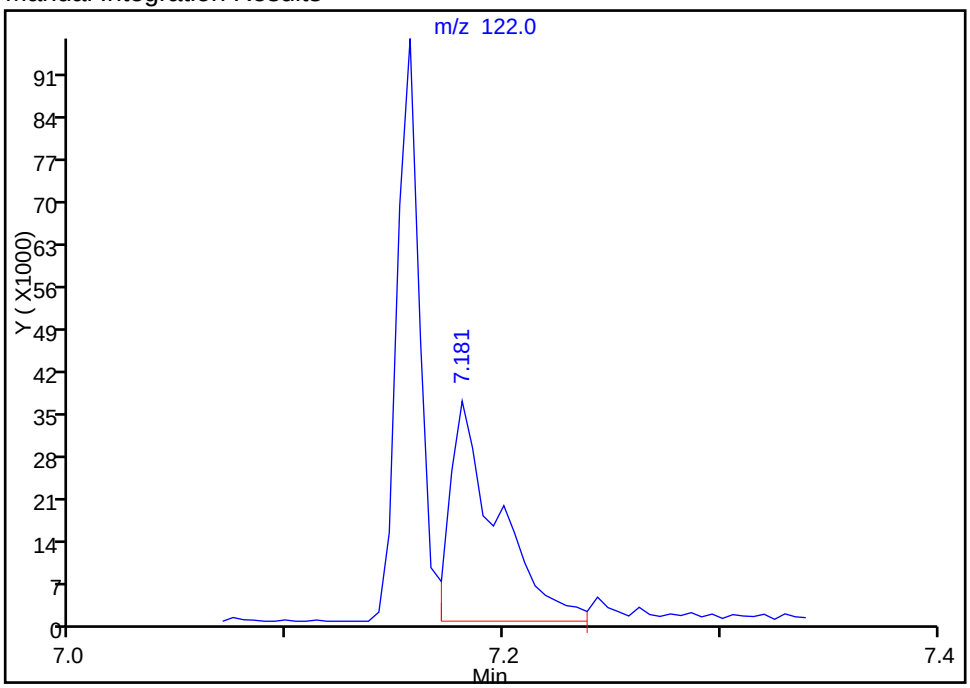
Processing Integration Results

RT: 7.18
Area: 37401
Amount: 2.475249
Amount Units: ng/ul



Manual Integration Results

RT: 7.18
Area: 55684
Amount: 3.675470
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 09:44:39
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Report Date: 21-Apr-2015 07:00:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D
Lims ID: std3 lst1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Apr-2015 09:40:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-004
Misc. Info.: STD3 LST1STD3 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:53 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 10:06:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.378	0.003	96	138388	4.00	4.00	
* 2 Naphthalene-d8	136	7.496	7.494	0.002	98	450150	4.00	4.00	
* 3 Acenaphthene-d10	164	9.002	9.004	-0.002	93	270453	4.00	4.00	
* 4 Phenanthrene-d10	188	10.271	10.273	-0.002	96	488588	4.00	4.00	
* 5 Chrysene-d12	240	12.575	12.572	0.002	97	552095	4.00	4.00	
* 6 Perylene-d12	264	14.359	14.361	-0.002	99	455739	4.00	4.00	
$ 7 2-Fluorophenol	112	5.164	5.162	0.002	93	44846	1.00	0.8803	
$ 8 Phenol-d5	99	6.010	6.013	-0.003	95	81474	1.00	1.07	
$ 9 Nitrobenzene-d5	82	6.852	6.854	-0.002	85	100203	1.00	1.22	
$ 10 2-Fluorobiphenyl (Surr)	172	8.400	8.398	0.002	99	89117	1.00	0.9801	
$ 11 2,4,6-Tribromophenol	330	9.670	9.672	-0.002	80	10068	1.00	1.01	
$ 12 Terphenyl-d14	244	11.598	11.601	-0.003	99	119323	1.00	1.06	
25 1,4-Dioxane	88	3.072	3.079	-0.007	91	28154	1.00	0.9586	M
26 N-Nitrosodimethylamine	74	3.558	3.560	-0.002	91	49598	1.00	1.01	
27 Pyridine	79	3.616	3.618	-0.002	93	78404	1.00	0.99	
41 Benzaldehyde	77	5.982	5.984	-0.002	87	134461	2.00	2.33	
43 Phenol	94	6.025	6.027	-0.002	96	88772	1.00	1.07	
44 Aniline	93	6.073	6.075	-0.002	94	110321	1.00	1.07	
69 Bis(2-chloroethyl)ether	93	6.116	6.114	0.002	95	71684	1.00	1.04	
46 2-Chlorophenol	128	6.193	6.196	-0.003	87	49226	1.00	1.02	
243 n-Decane	57	6.222	6.224	-0.002	97	68100	NC	NC	
47 1,3-Dichlorobenzene	146	6.337	6.335	0.002	87	53223	1.00	1.02	
48 1,4-Dichlorobenzene	146	6.395	6.398	-0.003	89	54926	1.00	1.04	
49 Benzyl alcohol	108	6.477	6.474	0.003	86	39819	1.00	1.02	
50 1,2-Dichlorobenzene	146	6.535	6.537	-0.002	85	50376	1.00	1.02	
51 2-Methylphenol	108	6.564	6.566	-0.002	91	55709	1.00	1.04	
53 2,2'-oxybis[1-chloropropan	45	6.597	6.595	0.002	97	64371	1.00	1.14	
52 Indene	115	6.612	6.614	-0.002	88	203257	2.00	2.09	
21 3 & 4 Methylphenol	108	6.689	6.691	-0.002	93	60636	1.00	1.07	
57 N-Nitrosodi-n-propylamine	70	6.708	6.705	0.003	97	64956	1.00	1.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.717	6.715	0.002	87	86292	1.00	1.05	
61 Hexachloroethane	117	6.842	6.840	0.002	91	24650	1.00	0.9786	
62 Nitrobenzene	77	6.871	6.869	0.002	82	89165	1.00	1.18	
64 Isophorone	82	7.073	7.071	0.002	97	132684	1.00	1.04	
66 2-Nitrophenol	139	7.150	7.153	-0.003	80	20385	1.00	0.9753	
65 2,4-Dimethylphenol	107	7.155	7.157	-0.002	94	57805	1.00	1.04	
71 Benzoic acid	122	7.179	7.196	-0.017	84	23148	2.00	2.30	
70 Bis(2-chloroethoxy)methane	93	7.232	7.234	-0.002	97	63225	1.00	0.9828	
73 2,4-Dichlorophenol	162	7.352	7.354	-0.002	92	32457	1.00	0.9717	
74 1,2,4-Trichlorobenzene	180	7.439	7.441	-0.002	90	37301	1.00	1.01	
75 Naphthalene	128	7.511	7.513	-0.002	95	122125	1.00	1.02	
76 4-Chloroaniline	127	7.530	7.532	-0.002	88	50525	1.00	0.9620	
77 2,6-Dichlorophenol	162	7.549	7.552	-0.003	89	33065	1.00	1.01	
79 Hexachlorobutadiene	225	7.617	7.619	-0.002	94	26546	1.00	1.07	
84 Caprolactam	113	7.799	7.807	-0.008	83	27278	2.00	1.94	
86 4-Chloro-3-methylphenol	107	7.920	7.922	-0.002	89	43072	1.00	0.9165	
87 2-Methylnaphthalene	142	8.102	8.105	-0.003	88	77680	1.00	0.9835	
88 1-Methylnaphthalene	142	8.189	8.191	-0.002	89	62239	1.00	0.9295	
89 Hexachlorocyclopentadiene	237	8.247	8.244	0.003	95	25705	1.00	1.02	
91 1,2,4,5-Tetrachlorobenzene	216	8.247	8.249	-0.002	97	39289	1.00	1.01	
92 2,4,6-Trichlorophenol	196	8.328	8.331	-0.003	92	25449	1.00	0.9790	
93 2,4,5-Trichlorophenol	196	8.362	8.364	-0.002	89	26021	1.00	0.9588	
98 1,1'-Biphenyl	154	8.492	8.489	0.003	97	92958	1.00	0.9795	
100 2-Chloronaphthalene	162	8.521	8.523	-0.002	98	69583	1.00	0.9267	
102 2-Nitroaniline	65	8.583	8.581	0.002	73	36760	1.00	0.9659	
105 Dimethyl phthalate	163	8.713	8.715	-0.002	93	85088	1.00	1.01	
106 1,3-Dinitrobenzene	168	8.747	8.749	-0.002	79	10972	1.00	0.8105	
107 2,6-Dinitrotoluene	165	8.771	8.773	-0.002	76	19230	1.00	0.9728	
109 Acenaphthylene	152	8.881	8.884	-0.003	97	110288	1.00	0.9511	
110 3-Nitroaniline	138	8.925	8.927	-0.002	84	20148	1.00	1.02	
111 2,4-Dinitrophenol	184	9.016	9.014	0.002	60	14970	2.00	3.25	M
112 Acenaphthene	153	9.030	9.028	0.002	97	73947	1.00	0.9801	
113 4-Nitrophenol	109	9.035	9.038	-0.003	86	38334	2.00	2.05	
114 2,4-Dinitrotoluene	165	9.122	9.124	-0.002	79	25674	1.00	0.99	
116 Dibenzofuran	168	9.175	9.172	0.003	94	102207	1.00	1.00	
119 2,3,4,6-Tetrachlorophenol	232	9.271	9.268	0.003	80	20309	1.00	0.9294	
121 Diethyl phthalate	149	9.309	9.307	0.002	96	90972	1.00	1.07	
247 Hexadecane	57	9.314	9.316	-0.002	96	61680	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.439	9.442	-0.003	94	46852	1.00	1.07	
125 4-Nitroaniline	138	9.444	9.446	-0.002	75	18232	1.00	0.9552	
126 Fluorene	166	9.468	9.466	0.002	99	86254	1.00	1.00	
128 4,6-Dinitro-2-methylphenol	198	9.478	9.480	-0.002	93	23579	2.00	2.00	
131 N-Nitrosodiphenylamine	169	9.531	9.533	-0.002	98	130359	2.00	1.98	
132 1,2-Diphenylhydrazine	77	9.574	9.576	-0.002	99	136085	1.00	1.00	
133 Azobenzene	77	9.574	9.576	-0.002	95	136330	1.00	1.00	
139 4-Bromophenyl phenyl ether	248	9.862	9.860	0.002	74	24343	1.00	0.9728	
141 Hexachlorobenzene	284	9.954	9.951	0.003	74	25722	1.00	1.04	
142 Atrazine	200	9.954	9.956	-0.002	89	49677	2.00	1.97	
244 n-Octadecane	57	10.093	10.096	-0.003	84	64767	NC	NC	
143 Pentachlorophenol	266	10.103	10.105	-0.002	85	27906	2.00	2.03	
148 Phenanthrene	178	10.295	10.293	0.002	97	128672	1.00	1.00	
149 Anthracene	178	10.338	10.336	0.002	98	127200	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.449	10.451	-0.002	97	110668	1.00	0.9660	
154 Di-n-butyl phthalate	149	10.694	10.692	0.002	100	121845	1.00	0.8492	
159 Fluoranthene	202	11.315	11.312	0.003	99	156263	1.00	1.06	
160 Benzidine	184	11.382	11.384	-0.002	99	149760	2.00	1.87	
161 Pyrene	202	11.517	11.519	-0.002	97	164008	1.00	1.08	
168 Butyl benzyl phthalate	149	11.973	11.976	-0.003	91	77170	1.00	1.10	
173 Bis(2-ethylhexyl) phthalat	149	12.464	12.461	0.003	94	92201	1.00	0.9881	
175 3,3'-Dichlorobenzidine	252	12.493	12.495	-0.002	76	100198	2.00	1.99	
177 Benzo[a]anthracene	228	12.560	12.562	-0.002	97	157819	1.00	1.02	
178 Chrysene	228	12.599	12.601	-0.002	95	143418	1.00	1.01	
180 Di-n-octyl phthalate	149	13.128	13.125	0.003	99	159946	1.00	1.00	
182 Benzo[b]fluoranthene	252	13.796	13.803	-0.007	95	134018	1.00	0.9759	
183 Benzo[k]fluoranthene	252	13.830	13.837	-0.007	96	138809	1.00	1.00	
184 Benzo[a]pyrene	252	14.277	14.279	-0.002	77	128202	1.00	0.9778	
188 Indeno[1,2,3-cd]pyrene	276	16.297	16.304	-0.007	94	127282	1.00	0.9588	
189 Dibenz(a,h)anthracene	278	16.311	16.313	-0.002	89	107009	1.00	0.9770	M
190 Benzo[g,h,i]perylene	276	16.902	16.910	-0.008	97	111014	1.00	1.01	
S 191 Methyl Phenols,Total	100				0			2.10	
S 245 Total Cresols	100				0			2.10	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L3 W_00005 Amount Added: 1.00 Units: mL

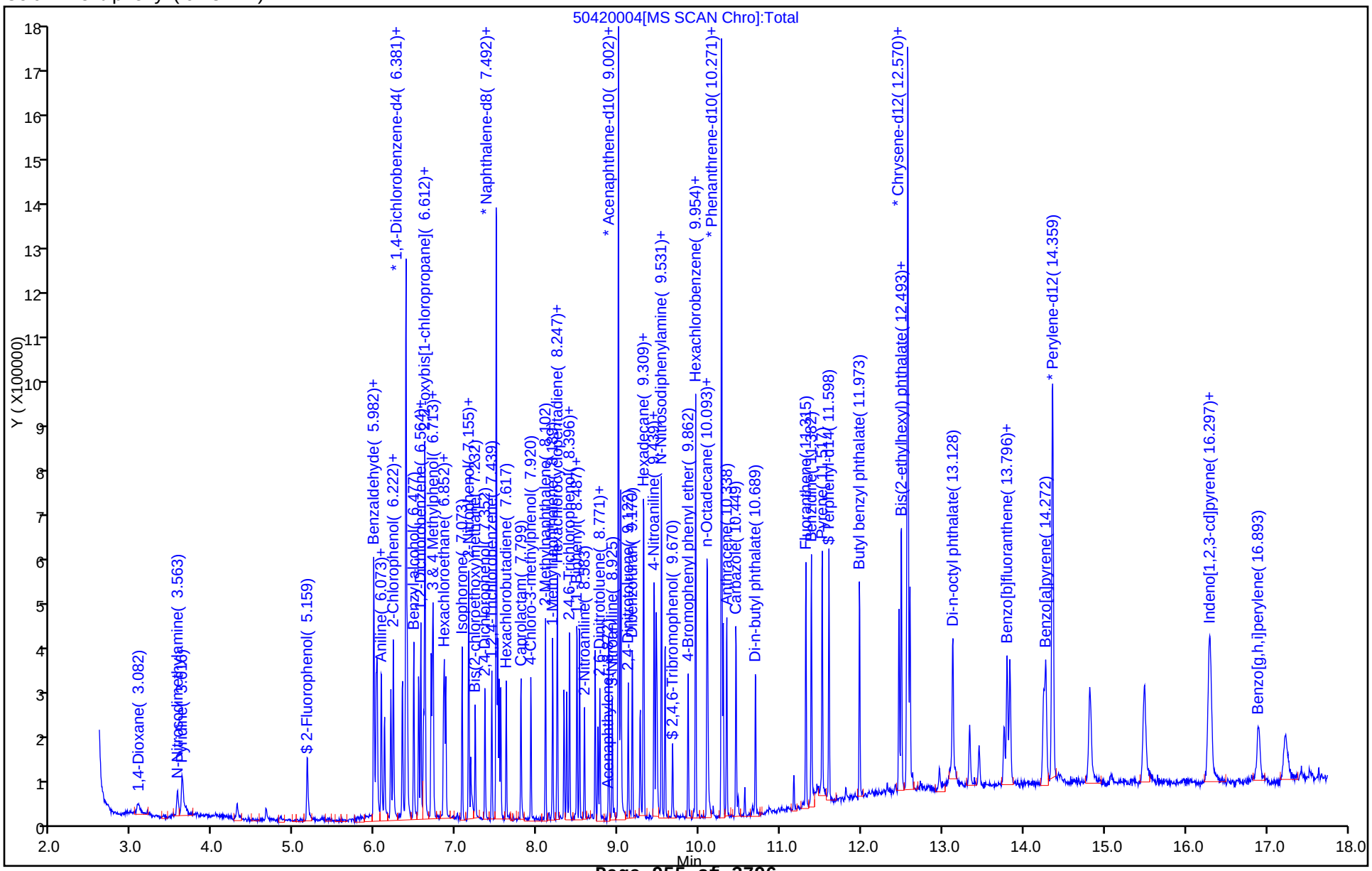
Report Date: 21-Apr-2015 07:00:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D

Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std3 lst1			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

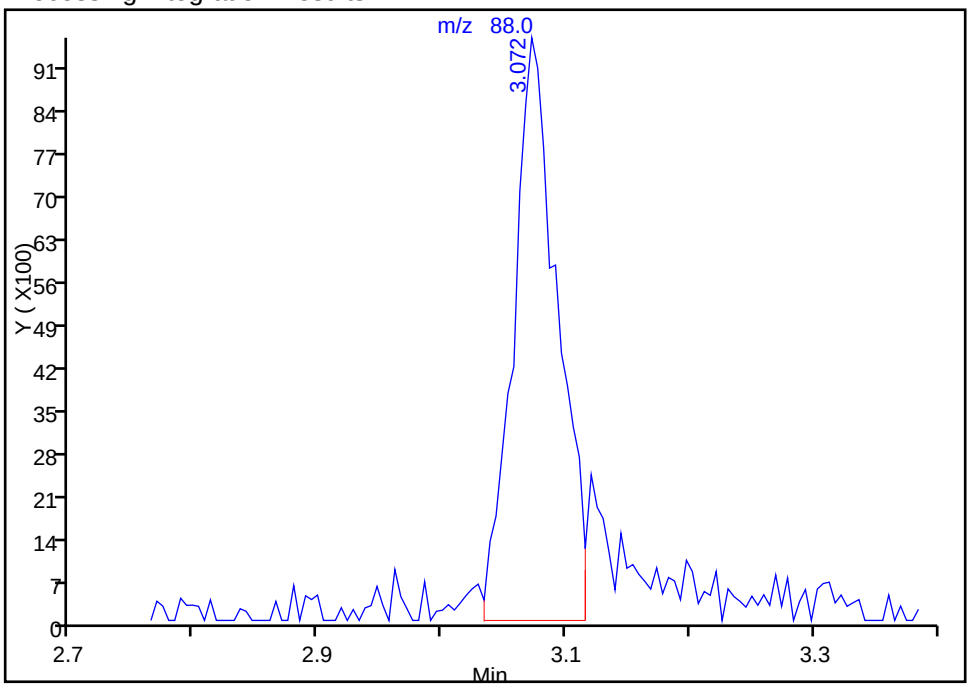
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D				
Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9		
Lims ID:	std3 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

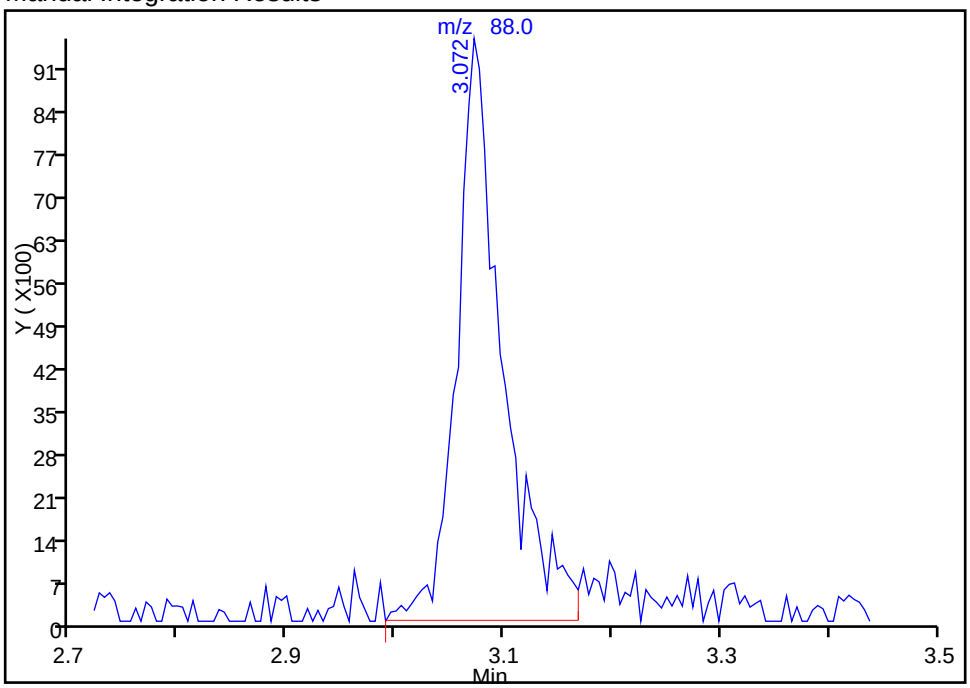
Processing Integration Results

RT: 3.07
Area: 23919
Amount: 0.943832
Amount Units: ng/ul



Manual Integration Results

RT: 3.07
Area: 28154
Amount: 0.958570
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 10:06:37
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

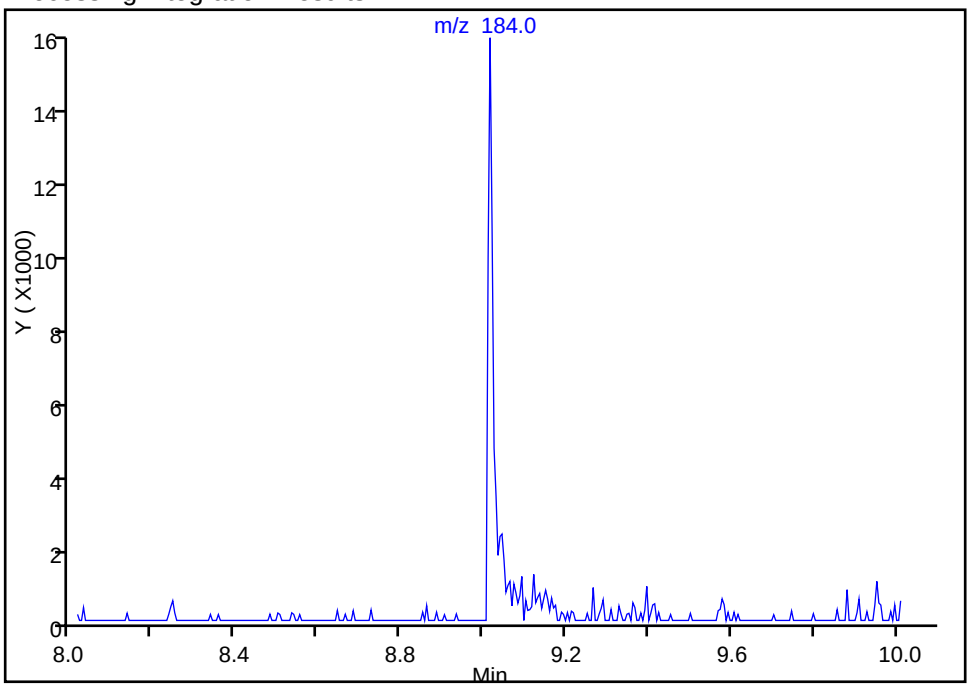
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D				
Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9		
Lims ID:	std3 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

111 2,4-Dinitrophenol, CAS: 51-28-5

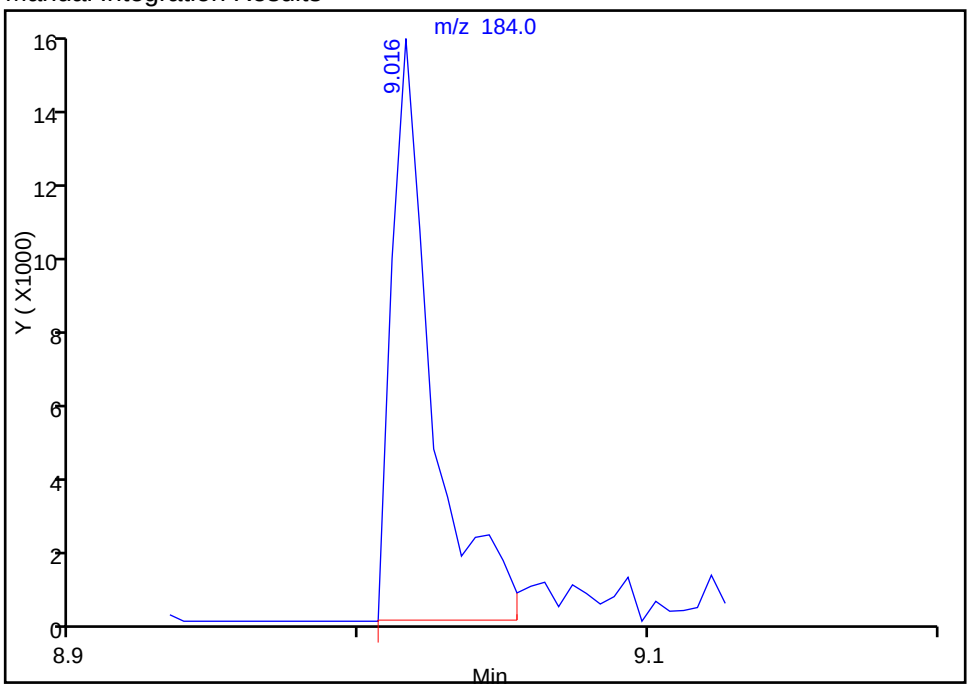
Not Detected
Expected RT: 9.01

Processing Integration Results



Manual Integration Results

RT: 9.02
Area: 14970
Amount: 3.251581
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 10:06:37
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

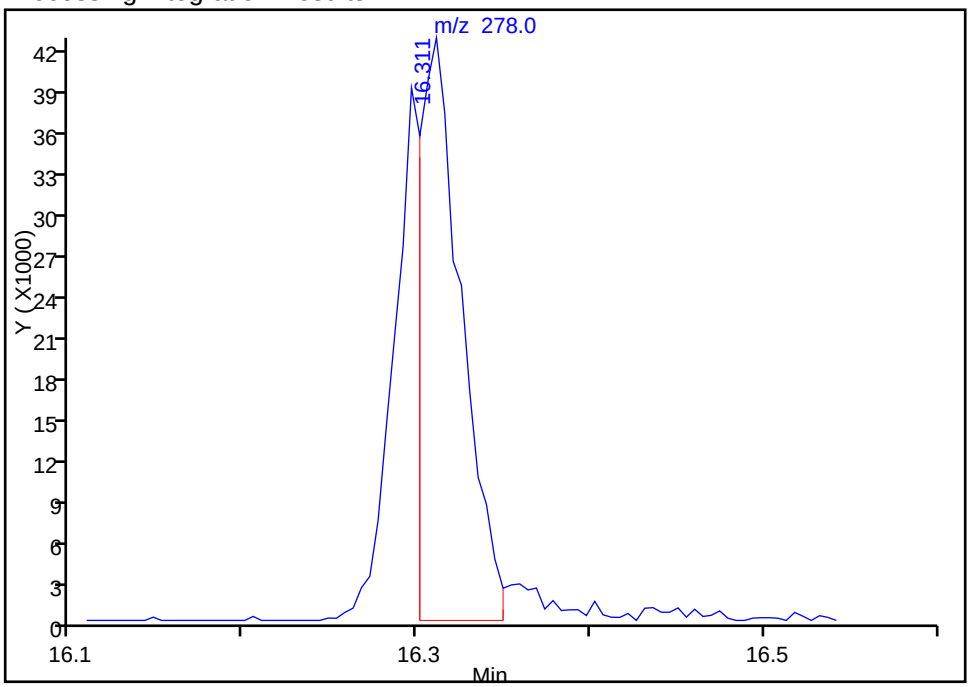
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D				
Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9		
Lims ID:	std3 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

189 Dibenz(a,h)anthracene, CAS: 53-70-3

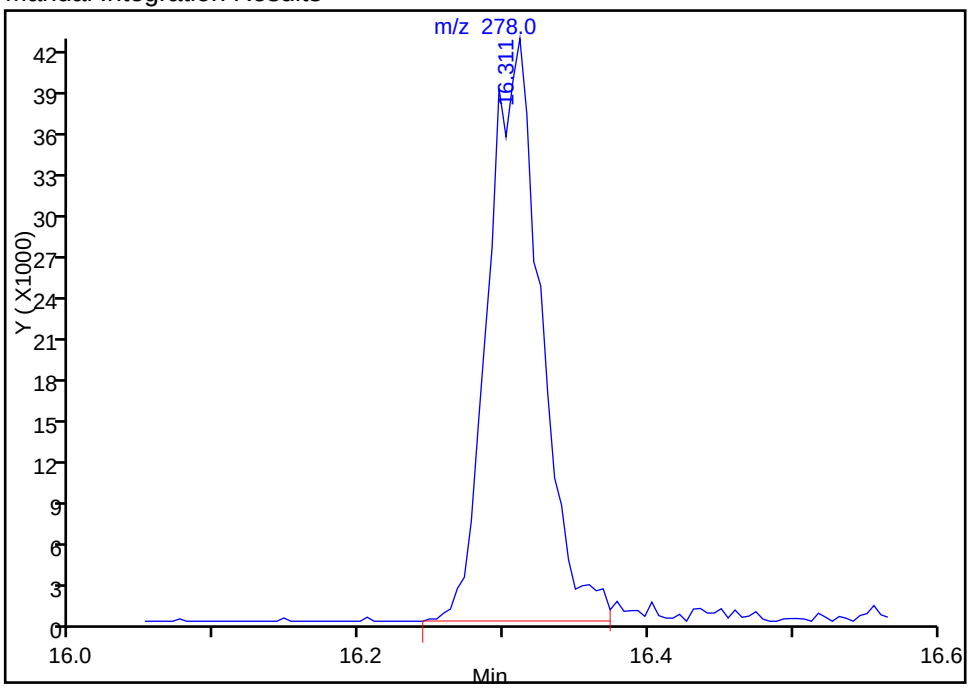
Processing Integration Results

RT: 16.31
Area: 70861
Amount: 0.758018
Amount Units: ng/ul



Manual Integration Results

RT: 16.31
Area: 107009
Amount: 0.976983
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 10:06:37
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Report Date: 21-Apr-2015 07:00:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D
Lims ID: std2 lst1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Apr-2015 10:05:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-005
Misc. Info.: STD2 LST1STD2 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:56 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 11:55:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.378	0.004	85	129397	4.00	4.00	
* 2 Naphthalene-d8	136	7.493	7.494	-0.001	98	459343	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.004	-0.001	76	265529	4.00	4.00	
* 4 Phenanthrene-d10	188	10.272	10.273	-0.001	94	578628	4.00	4.00	
* 5 Chrysene-d12	240	12.571	12.572	-0.001	79	597306	4.00	4.00	
* 6 Perylene-d12	264	14.355	14.361	-0.006	98	486942	4.00	4.00	
$ 7 2-Fluorophenol	112	5.166	5.162	0.004	82	22354	0.5000	0.4693	
$ 8 Phenol-d5	99	6.012	6.013	-0.001	71	36942	0.5000	0.5185	
$ 9 Nitrobenzene-d5	82	6.853	6.854	-0.001	84	39795	0.5000	0.4760	
$ 10 2-Fluorobiphenyl (Surr)	172	8.397	8.398	-0.001	94	44021	0.5000	0.4931	
$ 11 2,4,6-Tribromophenol	330	9.671	9.672	-0.001	63	5472	0.5000	0.5565	
$ 12 Terphenyl-d14	244	11.600	11.601	-0.001	96	53965	0.5000	0.4440	
25 1,4-Dioxane	88	3.078	3.079	-0.001	53	12415	0.5000	0.4521	
26 N-Nitrosodimethylamine	74	3.569	3.560	0.009	74	22836	0.5000	0.4983	M
27 Pyridine	79	3.632	3.618	0.014	82	31368	0.5000	0.4254	M
41 Benzaldehyde	77	5.983	5.984	-0.001	82	58929	1.00	1.09	
43 Phenol	94	6.026	6.027	-0.001	75	38586	0.5000	0.4995	
44 Aniline	93	6.074	6.075	-0.001	80	52486	0.5000	0.5468	
69 Bis(2-chloroethyl)ether	93	6.113	6.114	-0.001	86	36164	0.5000	0.5586	
46 2-Chlorophenol	128	6.195	6.196	-0.001	80	24152	0.5000	0.5342	
243 n-Decane	57	6.223	6.224	-0.001	97	33453	NC	NC	
47 1,3-Dichlorobenzene	146	6.334	6.335	-0.001	84	25132	0.5000	0.5139	
48 1,4-Dichlorobenzene	146	6.392	6.398	-0.006	58	24652	0.5000	0.4970	
49 Benzyl alcohol	108	6.474	6.474	0.000	80	17314	0.5000	0.4752	
50 1,2-Dichlorobenzene	146	6.536	6.537	-0.001	80	22513	0.5000	0.4865	
51 2-Methylphenol	108	6.565	6.566	-0.001	77	23011	0.5000	0.4578	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.595	0.004	94	25460	0.5000	0.4803	
52 Indene	115	6.613	6.614	-0.001	69	88266	1.00	0.9684	
21 3 & 4 Methylphenol	108	6.690	6.691	-0.001	87	26169	0.5000	0.4917	
57 N-Nitrosodi-n-propylamine	70	6.704	6.705	-0.001	94	25861	0.5000	0.4647	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.714	6.715	-0.001	77	36798	0.5000	0.4774	
61 Hexachloroethane	117	6.844	6.840	0.004	85	11143	0.5000	0.4731	
62 Nitrobenzene	77	6.868	6.869	-0.001	69	38625	0.5000	0.5003	
64 Isophorone	82	7.070	7.071	-0.001	94	61236	0.5000	0.4693	
66 2-Nitrophenol	139	7.152	7.153	-0.001	80	10624	0.5000	0.4981	
65 2,4-Dimethylphenol	107	7.156	7.157	-0.001	93	27053	0.5000	0.4782	
71 Benzoic acid	122		7.196				ND	ND	
70 Bis(2-chloroethoxy)methane	93	7.233	7.234	-0.001	91	30610	0.5000	0.4663	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	89	16926	0.5000	0.4966	
74 1,2,4-Trichlorobenzene	180	7.440	7.441	-0.001	88	18960	0.5000	0.5046	
75 Naphthalene	128	7.512	7.513	-0.001	52	61542	0.5000	0.5014	
76 4-Chloroaniline	127	7.531	7.532	-0.001	38	25628	0.5000	0.4782	M
77 2,6-Dichlorophenol	162	7.551	7.552	-0.001	47	16565	0.5000	0.4944	
79 Hexachlorobutadiene	225	7.618	7.619	-0.001	88	12242	0.5000	0.4843	
84 Caprolactam	113	7.796	7.807	-0.011	80	13773	1.00	0.9581	
86 4-Chloro-3-methylphenol	107	7.921	7.922	-0.001	82	23393	0.5000	0.4878	
87 2-Methylnaphthalene	142	8.104	8.105	-0.001	84	37676	0.5000	0.4674	
88 1-Methylnaphthalene	142	8.190	8.191	-0.001	78	32739	0.5000	0.4792	
89 Hexachlorocyclopentadiene	237	8.243	8.244	-0.001	83	11701	0.5000	0.4714	
91 1,2,4,5-Tetrachlorobenzene	216	8.248	8.249	-0.001	91	19527	0.5000	0.5103	
92 2,4,6-Trichlorophenol	196	8.330	8.331	-0.001	82	12282	0.5000	0.4812	
93 2,4,5-Trichlorophenol	196	8.363	8.364	-0.001	85	13589	0.5000	0.5100	
98 1,1'-Biphenyl	154	8.488	8.489	-0.001	97	45100	0.5000	0.4840	
100 2-Chloronaphthalene	162	8.522	8.523	-0.001	97	35914	0.5000	0.4872	
102 2-Nitroaniline	65	8.580	8.581	-0.001	60	17765	0.5000	0.4755	
105 Dimethyl phthalate	163	8.714	8.715	-0.001	92	41236	0.5000	0.4976	
106 1,3-Dinitrobenzene	168	8.748	8.749	-0.001	73	6308	0.5000	0.4746	
107 2,6-Dinitrotoluene	165	8.772	8.773	-0.001	62	10291	0.5000	0.5303	
109 Acenaphthylene	152	8.883	8.884	-0.001	94	54725	0.5000	0.4807	
110 3-Nitroaniline	138	8.926	8.927	-0.001	84	9479	0.5000	0.4899	
111 2,4-Dinitrophenol	184		9.014				ND	ND	
112 Acenaphthene	153	9.027	9.028	-0.001	86	35510	0.5000	0.4794	
113 4-Nitrophenol	109	9.037	9.038	-0.001	83	15982	1.00	0.8702	
114 2,4-Dinitrotoluene	165	9.123	9.124	-0.001	70	11611	0.5000	0.4580	
116 Dibenzofuran	168	9.171	9.172	-0.001	86	48630	0.5000	0.4824	
119 2,3,4,6-Tetrachlorophenol	232	9.267	9.268	-0.001	70	10685	0.5000	0.4980	
121 Diethyl phthalate	149	9.306	9.307	-0.001	92	45657	0.5000	0.5459	
247 Hexadecane	57	9.316	9.316	0.000	93	32331	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.442	-0.001	87	22361	0.5000	0.5205	
125 4-Nitroaniline	138	9.445	9.446	-0.001	64	9292	0.5000	0.4958	
126 Fluorene	166	9.465	9.466	-0.001	96	45190	0.5000	0.5341	
128 4,6-Dinitro-2-methylphenol	198	9.479	9.480	-0.001	81	8557	1.00	1.10	
131 N-Nitrosodiphenylamine	169	9.532	9.533	-0.001	96	68536	1.00	0.8811	
132 1,2-Diphenylhydrazine	77	9.575	9.576	-0.001	98	68881	0.5000	0.4261	
133 Azobenzene	77	9.575	9.576	-0.001	95	68299	0.5000	0.4225	
139 4-Bromophenyl phenyl ether	248	9.859	9.860	-0.001	72	13116	0.5000	0.4426	
141 Hexachlorobenzene	284	9.950	9.951	-0.001	71	13471	0.5000	0.4616	
142 Atrazine	200	9.955	9.956	-0.001	87	26388	1.00	0.8851	
244 n-Octadecane	57	10.095	10.096	-0.001	67	41682	NC	NC	
143 Pentachlorophenol	266	10.104	10.105	-0.001	61	12090	1.00	1.04	
148 Phenanthrene	178	10.292	10.293	-0.001	61	79088	0.5000	0.5206	
149 Anthracene	178	10.335	10.336	-0.001	98	75943	0.5000	0.5001	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.450	10.451	-0.001	87	67265	0.5000	0.4958	
154 Di-n-butyl phthalate	149	10.691	10.692	-0.001	99	84614	0.5000	0.4979	
159 Fluoranthene	202	11.311	11.312	-0.001	98	83292	0.5000	0.4749	
160 Benzidine	184	11.383	11.384	-0.001	86	64861	1.00	0.7487	
161 Pyrene	202	11.513	11.519	-0.006	96	80367	0.5000	0.4912	
168 Butyl benzyl phthalate	149	11.975	11.976	-0.001	88	34193	0.5000	0.4496	
173 Bis(2-ethylhexyl) phthalat	149	12.460	12.461	-0.001	92	48766	0.5000	0.4830	
175 3,3'-Dichlorobenzidine	252	12.494	12.495	-0.001	47	49655	1.00	0.9123	
177 Benzo[a]anthracene	228	12.557	12.562	-0.005	98	81549	0.5000	0.4859	
178 Chrysene	228	12.600	12.601	-0.001	64	76081	0.5000	0.4960	
180 Di-n-octyl phthalate	149	13.124	13.125	-0.001	97	79206	0.5000	0.4620	
182 Benzo[b]fluoranthene	252	13.793	13.803	-0.011	70	72747	0.5000	0.4958	
183 Benzo[k]fluoranthene	252	13.836	13.837	-0.001	93	69527	0.5000	0.4705	
184 Benzo[a]pyrene	252	14.273	14.279	-0.006	45	70401	0.5000	0.5025	
188 Indeno[1,2,3-cd]pyrene	276	16.303	16.304	-0.001	92	64921	0.5000	0.4577	M
189 Dibenz(a,h)anthracene	278	16.307	16.313	-0.006	70	52913	0.5000	0.4521	M
190 Benzo[g,h,i]perylene	276	16.899	16.910	-0.011	88	58855	0.5000	0.5004	
S 191 Methyl Phenols,Total	100				0			0.9495	
S 245 Total Cresols	100				0			0.9495	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L2 W_00005 Amount Added: 1.00 Units: mL

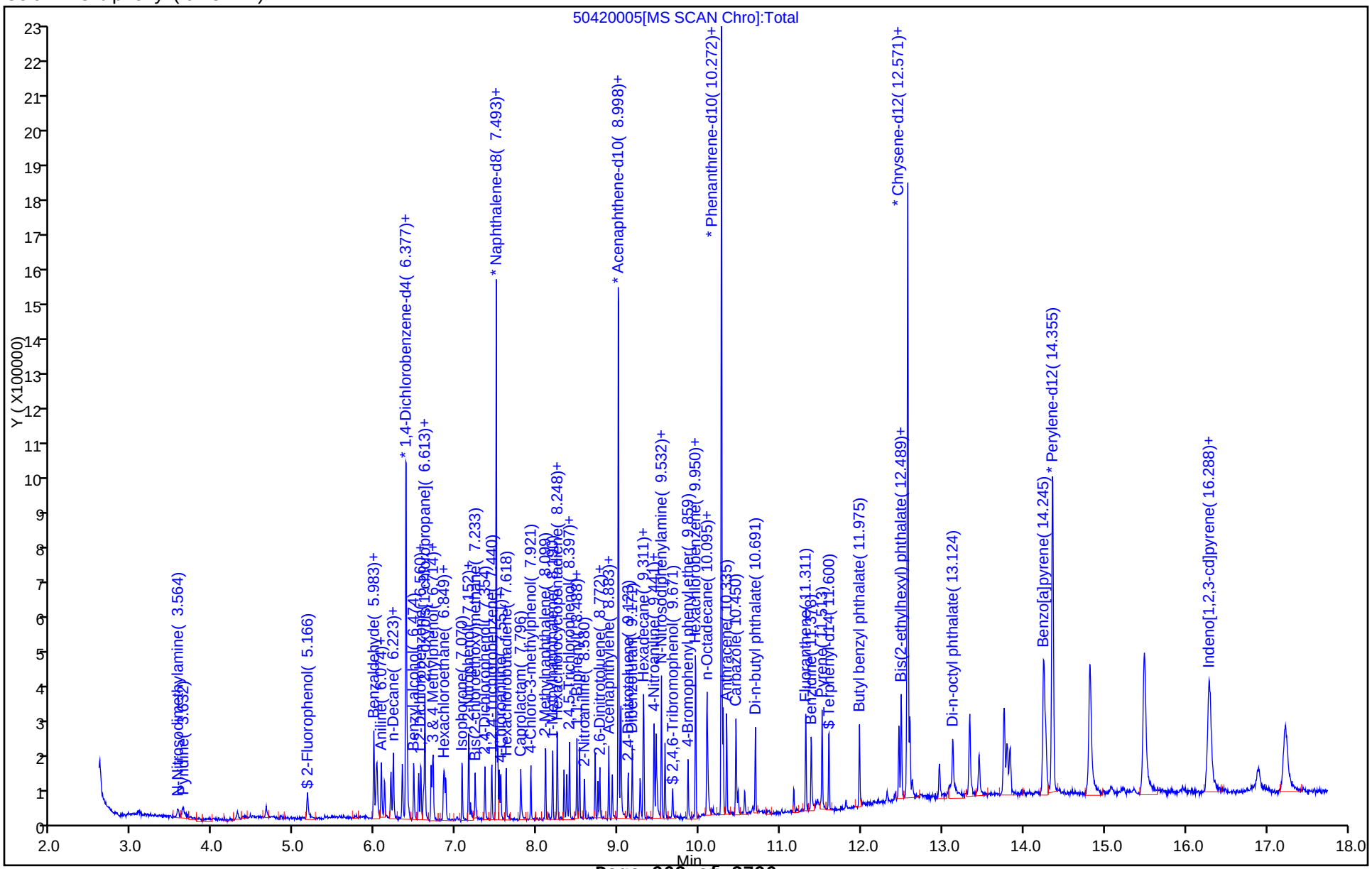
Report Date: 21-Apr-2015 07:00:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D

Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std2 lst1			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

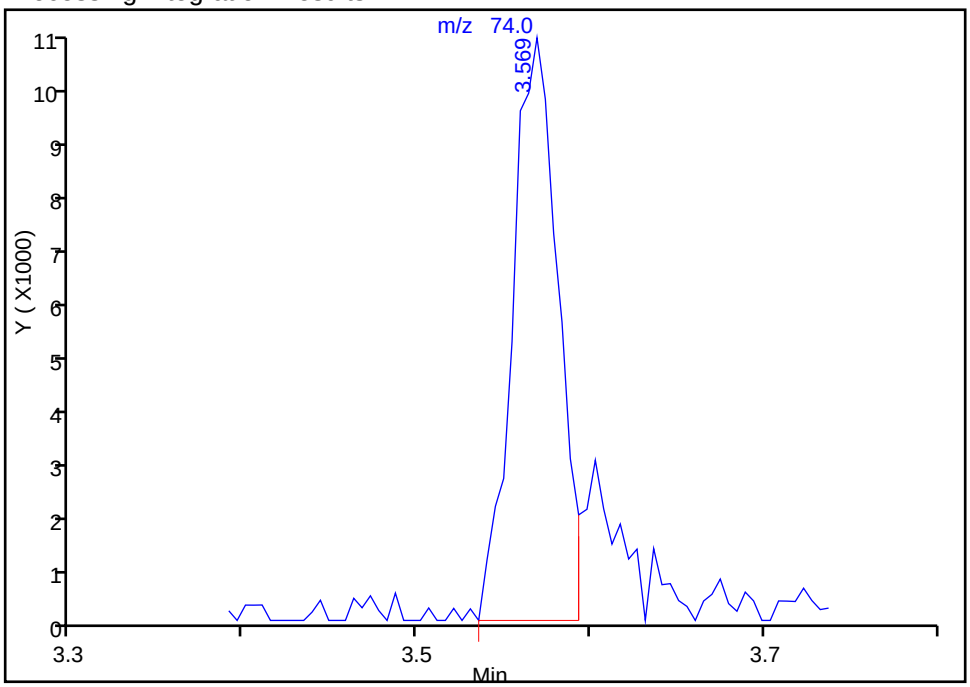
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

26 N-Nitrosodimethylamine, CAS: 62-75-9

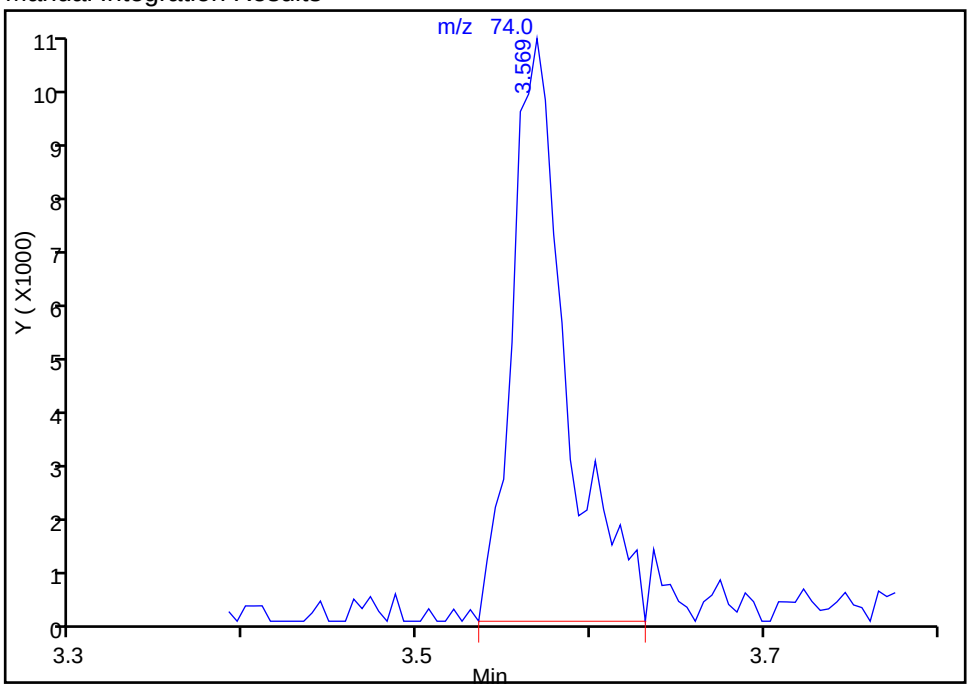
Processing Integration Results

RT: 3.57
Area: 19246
Amount: 0.439810
Amount Units: ng/ul



Manual Integration Results

RT: 3.57
Area: 22836
Amount: 0.498319
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

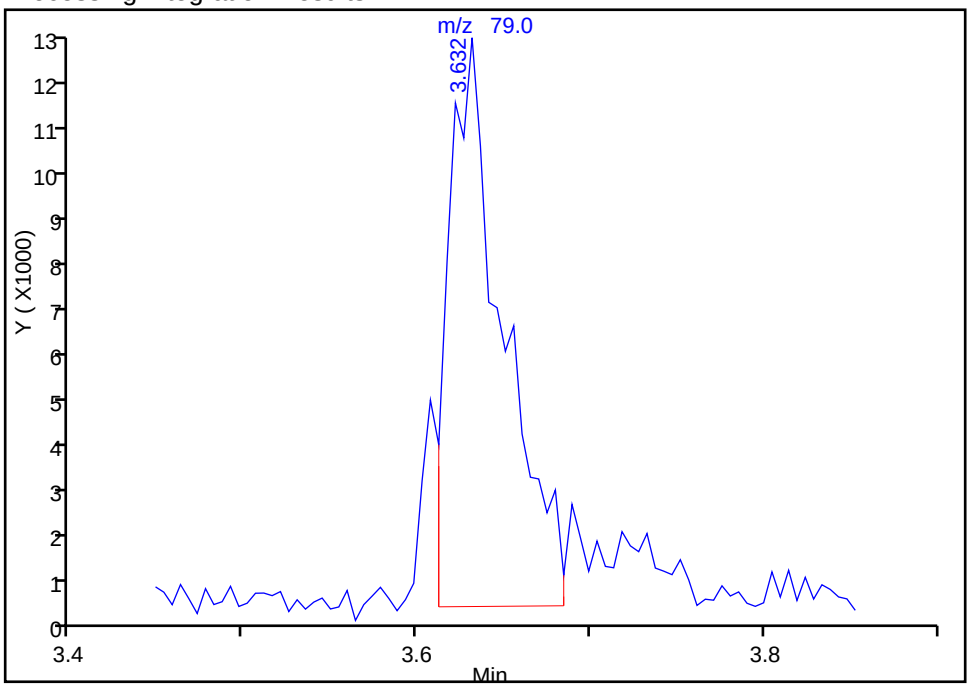
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D
Injection Date: 20-Apr-2015 10:05:30 Instrument ID: A4HP9
Lims ID: std2 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

27 Pyridine, CAS: 110-86-1

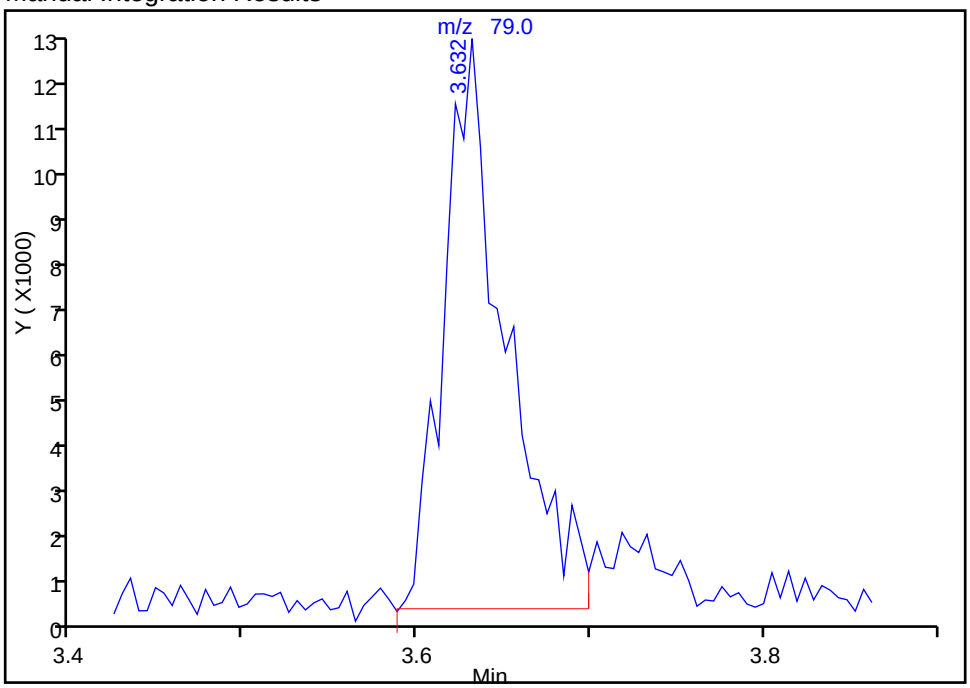
Processing Integration Results

RT: 3.63
Area: 27527
Amount: 0.395983
Amount Units: ng/ul



Manual Integration Results

RT: 3.63
Area: 31368
Amount: 0.425376
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

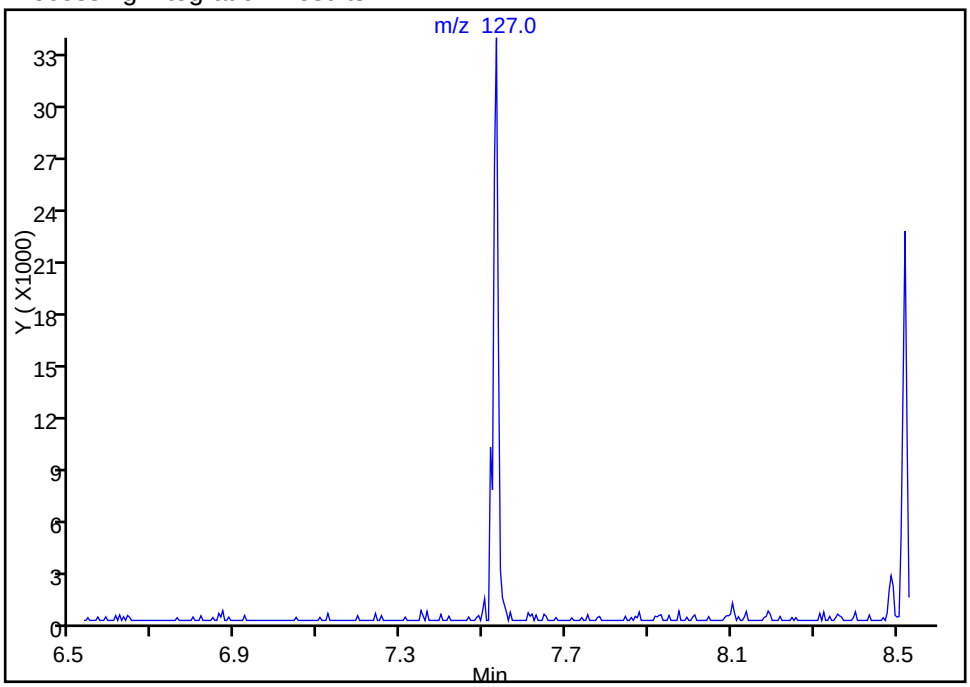
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

76 4-Chloroaniline, CAS: 106-47-8

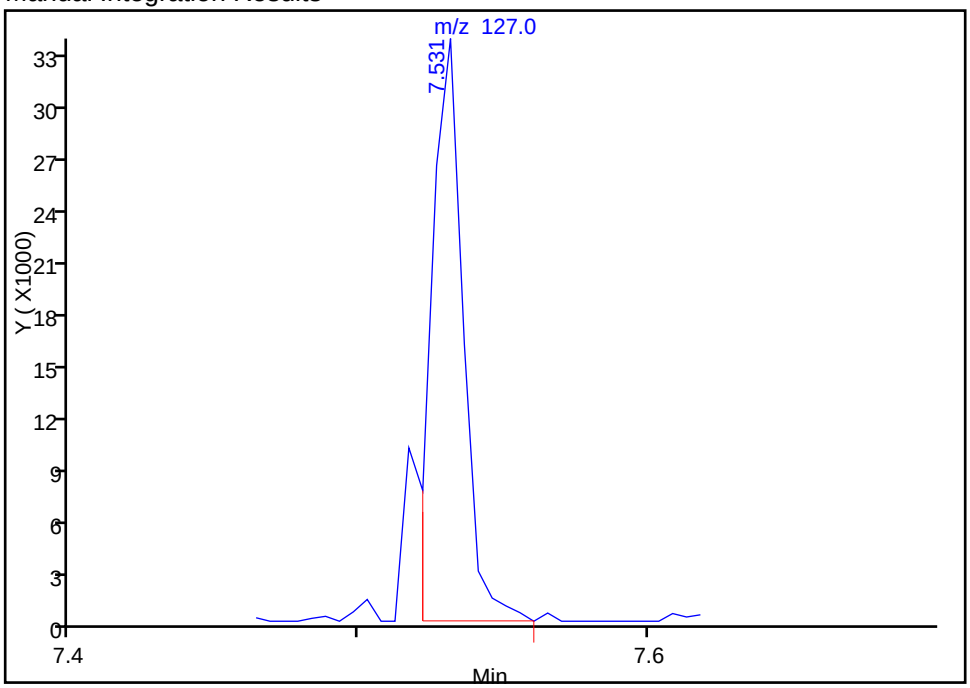
Not Detected
Expected RT: 7.53

Processing Integration Results



Manual Integration Results

RT: 7.53
Area: 25628
Amount: 0.478214
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

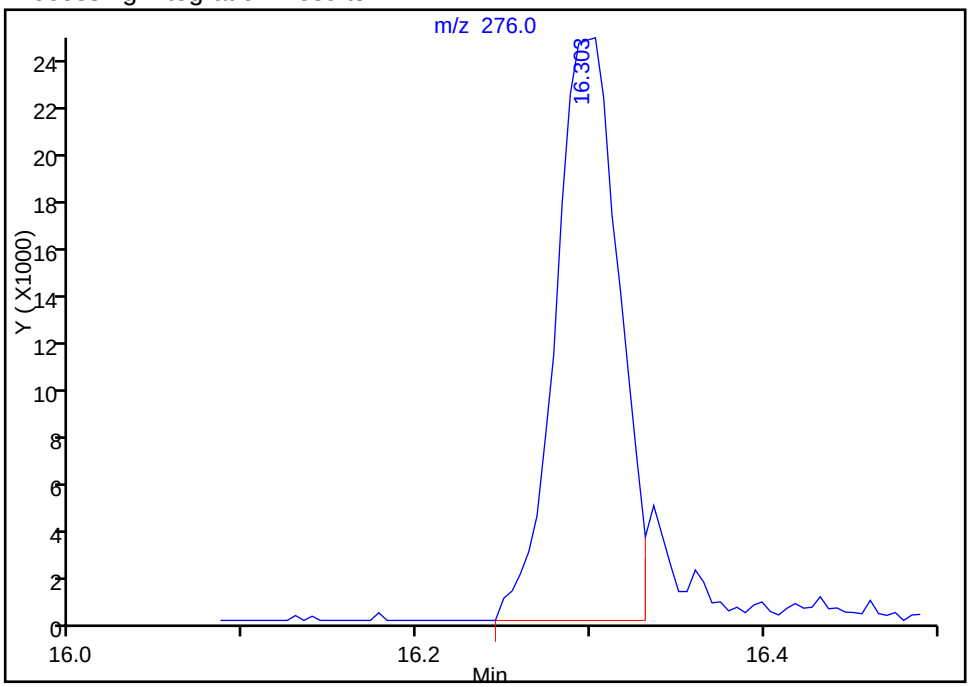
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

188 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

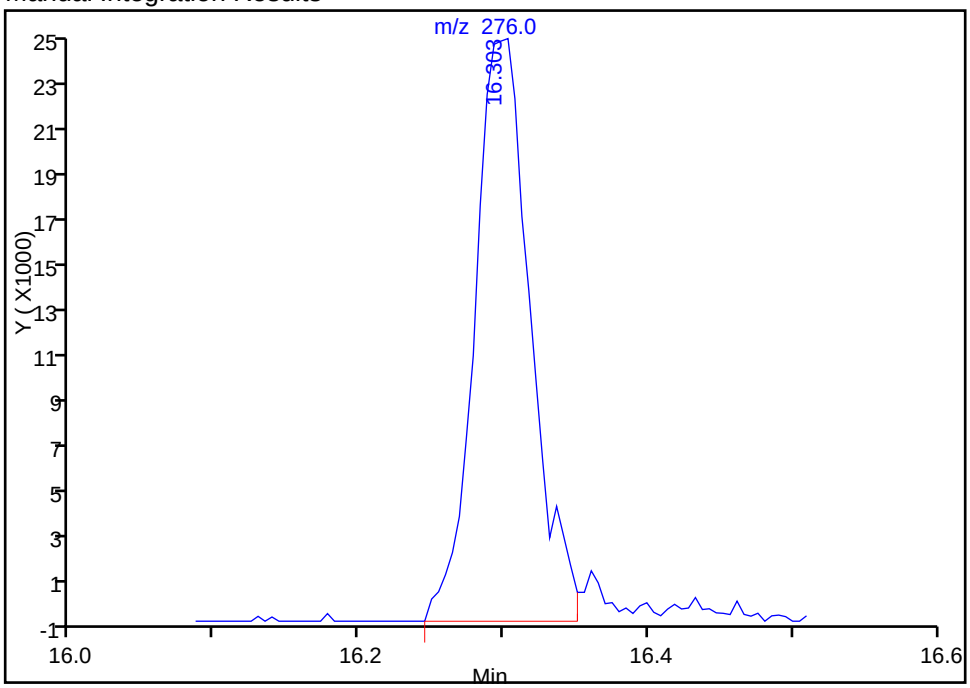
Processing Integration Results

RT: 16.30
Area: 61502
Amount: 0.454721
Amount Units: ng/ul



Manual Integration Results

RT: 16.30
Area: 64921
Amount: 0.457702
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

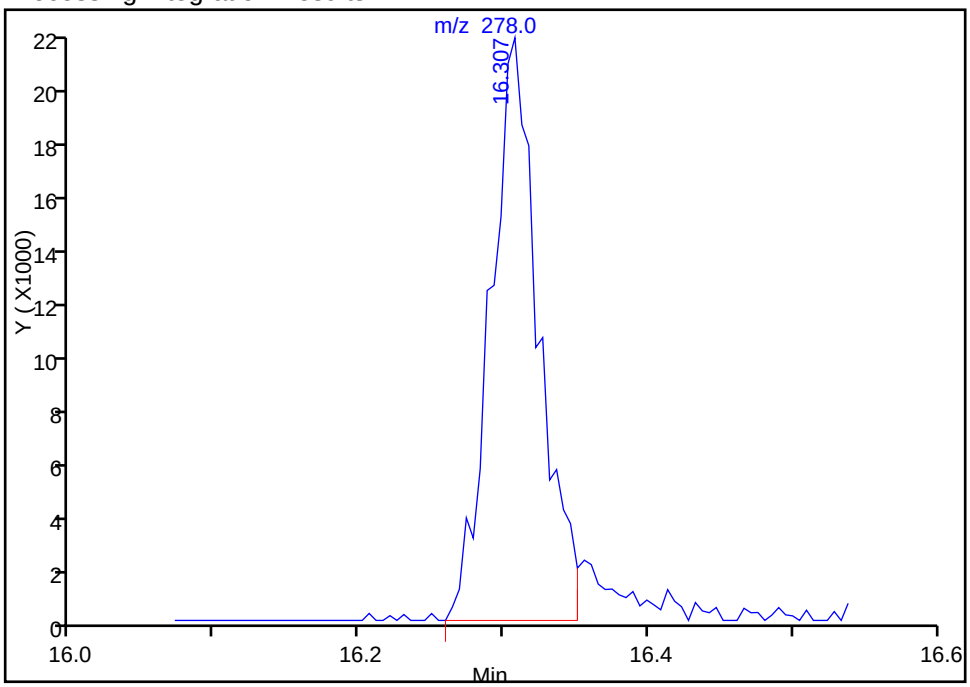
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

189 Dibenz(a,h)anthracene, CAS: 53-70-3

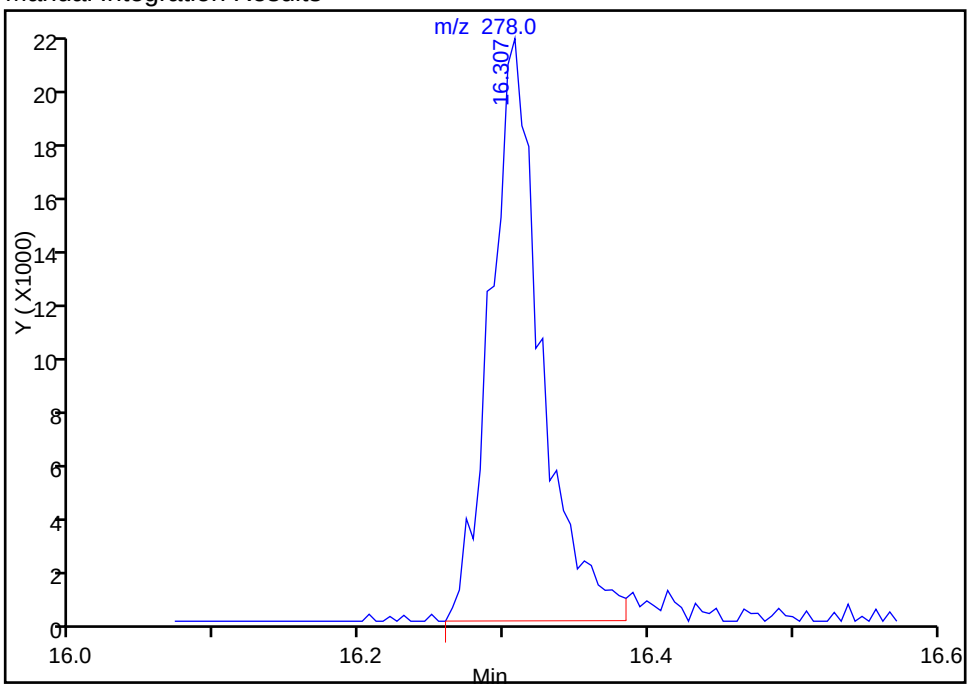
Processing Integration Results

RT: 16.31
Area: 50195
Amount: 0.450179
Amount Units: ng/ul



Manual Integration Results

RT: 16.31
Area: 52913
Amount: 0.452135
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D
Lims ID: std1 lst1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Apr-2015 10:31:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-006
Misc. Info.: STD1 LST1STD1 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:58 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 11:57:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.378	6.378	0.000	93	131933	4.00	4.00	
* 2 Naphthalene-d8	136	7.494	7.494	0.000	98	519472	4.00	4.00	
* 3 Acenaphthene-d10	164	8.999	9.004	-0.005	92	282727	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	99	497649	4.00	4.00	
* 5 Chrysene-d12	240	12.572	12.572	0.000	97	570972	4.00	4.00	
* 6 Perylene-d12	264	14.356	14.361	-0.005	99	471088	4.00	4.00	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	83	9007	0.1000	0.0953	
$ 10 2-Fluorobiphenyl (Surr)	172	8.398	8.398	0.000	98	11882	0.1000	0.1250	
$ 12 Terphenyl-d14	244	11.601	11.601	0.000	97	13421	0.1000	0.1155	
75 Naphthalene	128	7.513	7.513	0.000	95	15960	0.1000	0.1150	
87 2-Methylnaphthalene	142	8.100	8.105	-0.005	95	10845	0.1000	0.1190	
88 1-Methylnaphthalene	142	8.191	8.191	0.000	83	8731	0.1000	0.1130	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	95	12497	0.1000	0.1260	
100 2-Chloronaphthalene	162	8.523	8.523	0.000	97	9895	0.1000	0.1261	
109 Acenaphthylene	152	8.884	8.884	0.000	93	13045	0.1000	0.1076	
112 Acenaphthene	153	9.028	9.028	0.000	95	9215	0.1000	0.1168	
116 Dibenzofuran	168	9.172	9.172	0.000	94	11304	0.1000	0.1053	
126 Fluorene	166	9.465	9.466	-0.001	94	9681	0.1000	0.1075	
141 Hexachlorobenzene	284	9.951	9.951	0.000	74	2911	0.1000	0.1160	
148 Phenanthrene	178	10.293	10.293	0.000	97	14773	0.1000	0.1131	
149 Anthracene	178	10.336	10.336	0.000	97	13820	0.1000	0.1058	
159 Fluoranthene	202	11.312	11.312	0.000	96	13563	0.1000	0.0899	
161 Pyrene	202	11.514	11.519	-0.005	93	14841	0.1000	0.0949	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	85	18614	0.1000	0.1160	
178 Chrysene	228	12.596	12.601	-0.005	93	16089	0.1000	0.1097	
182 Benzo[b]fluoranthene	252	13.798	13.803	-0.005	55	16357	0.1000	0.1152	
183 Benzo[k]fluoranthene	252	13.832	13.837	-0.005	92	15132	0.1000	0.1058	
184 Benzo[a]pyrene	252	14.269	14.279	-0.010	67	13667	0.1000	0.1008	
188 Indeno[1,2,3-cd]pyrene	276	16.299	16.304	-0.005	48	14509	0.1000	0.1057	M
189 Dibenz(a,h)anthracene	278	16.313	16.313	0.000	43	12210	0.1000	0.1078	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
190 Benzo[g,h,i]perylene	276	16.895	16.910	-0.015	65	13582	0.1000	0.1194	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L1 W_00005 Amount Added: 1.00 Units: mL

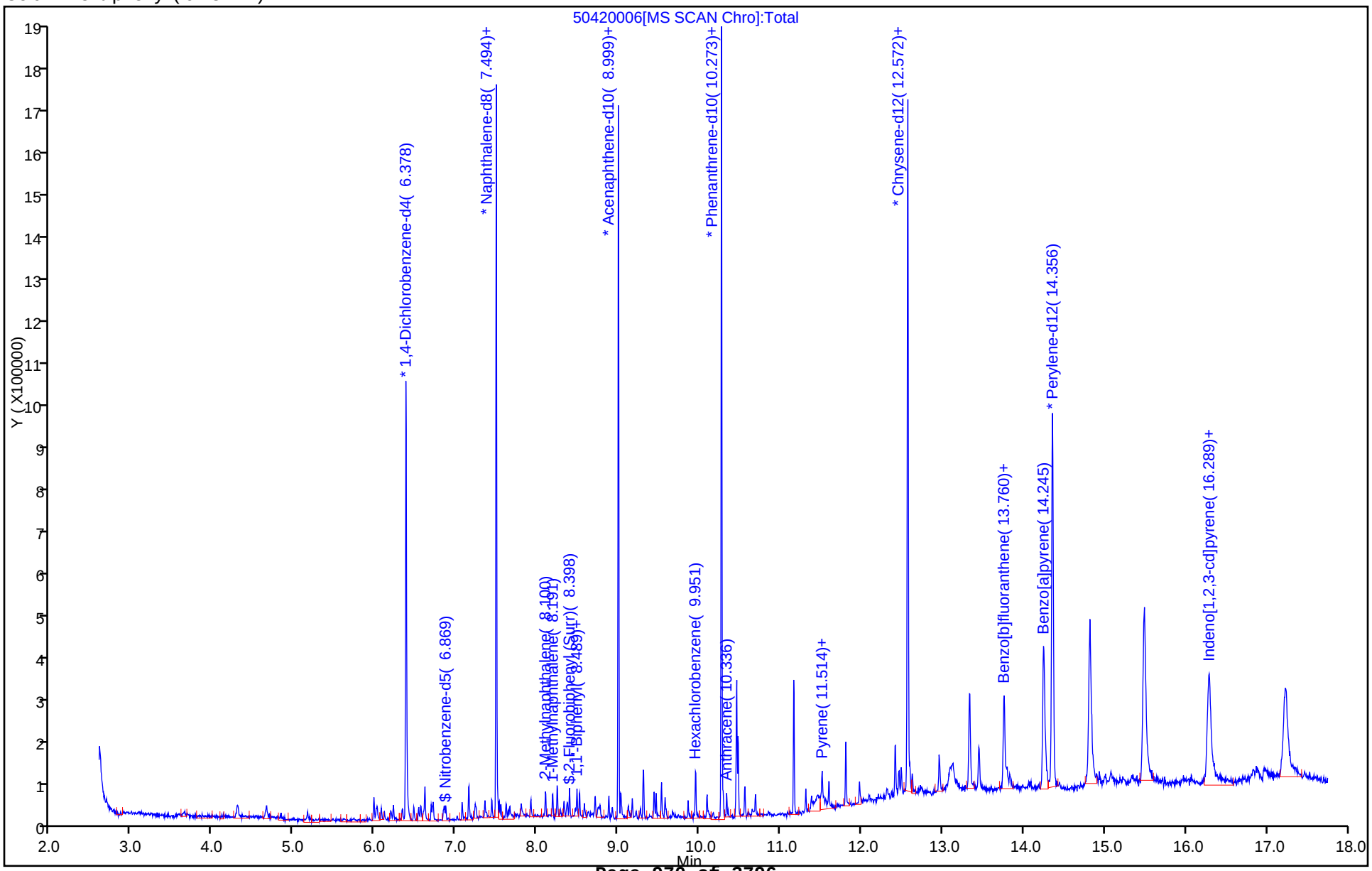
Report Date: 21-Apr-2015 07:00:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D

Injection Date:	20-Apr-2015 10:31:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std1 lst1			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

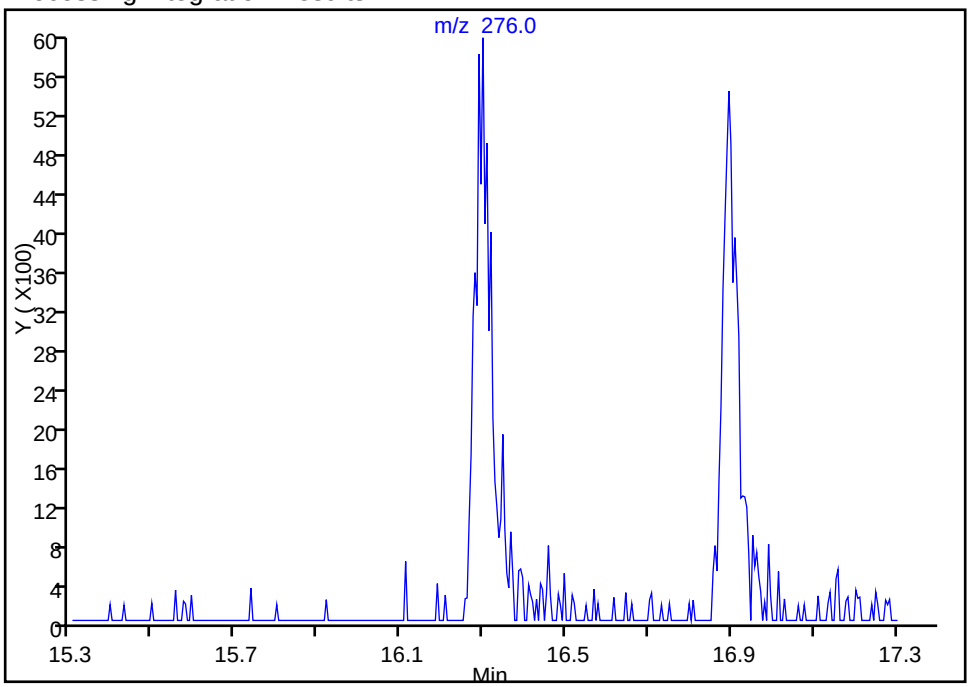
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D				
Injection Date:	20-Apr-2015 10:31:30	Instrument ID:	A4HP9		
Lims ID:	std1 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

188 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

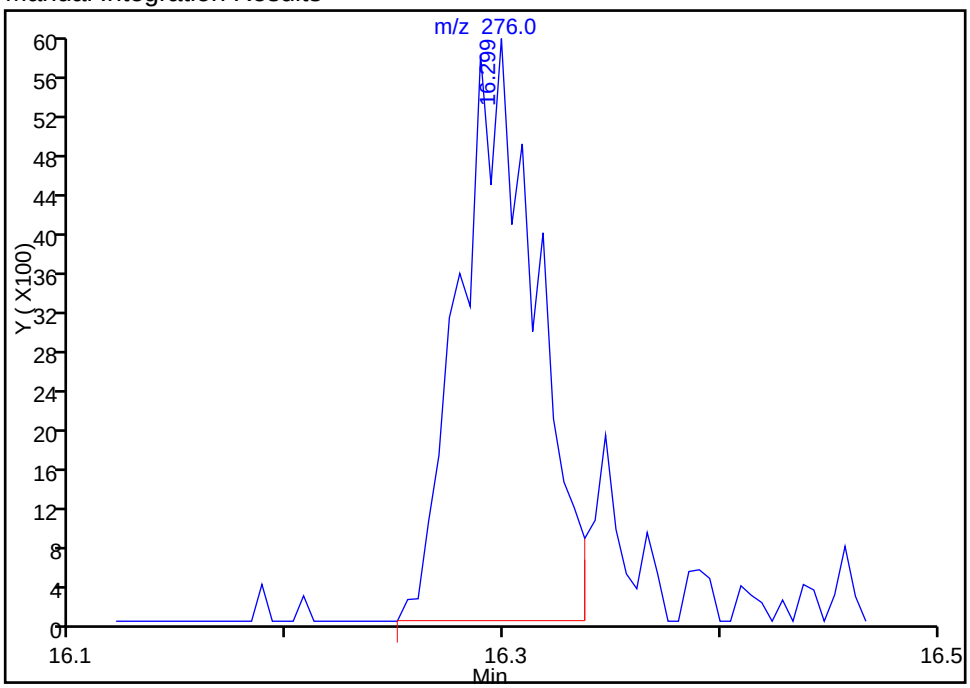
Not Detected
Expected RT: 16.30

Processing Integration Results



Manual Integration Results

RT: 16.30
Area: 14509
Amount: 0.105733
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:57:22
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

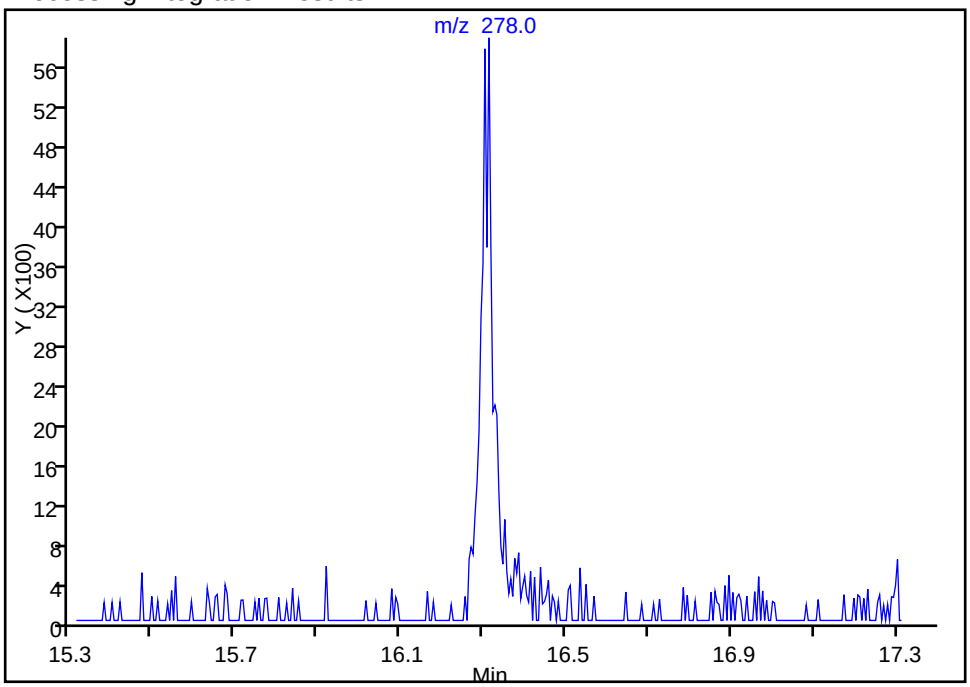
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D				
Injection Date:	20-Apr-2015 10:31:30	Instrument ID:	A4HP9		
Lims ID:	std1 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

189 Dibenz(a,h)anthracene, CAS: 53-70-3

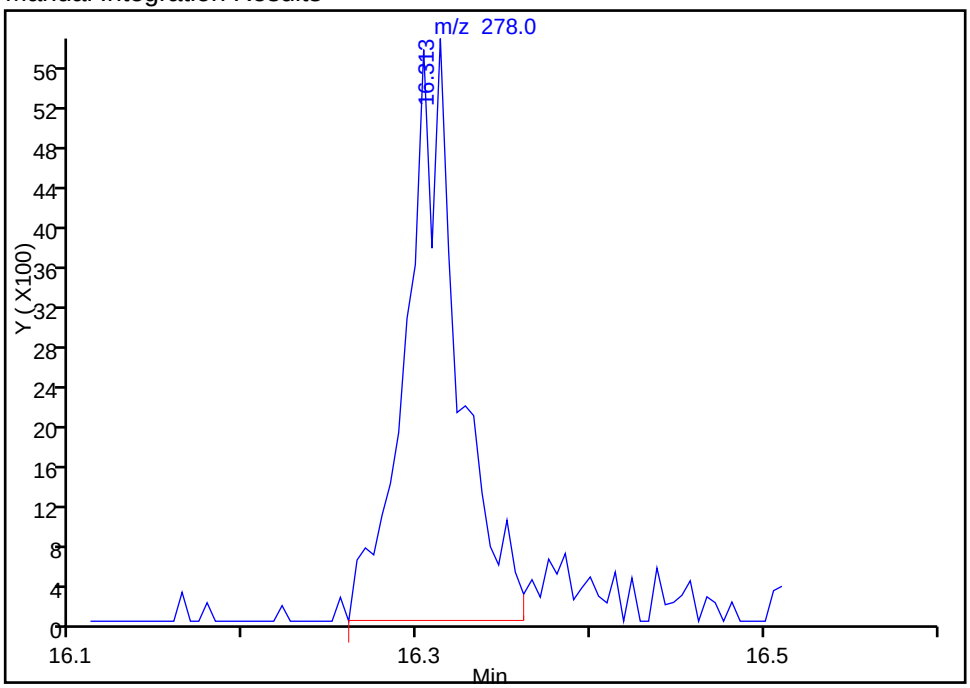
Not Detected
Expected RT: 16.31

Processing Integration Results



Manual Integration Results

RT: 16.31
Area: 12210
Amount: 0.107844
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:57:22
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

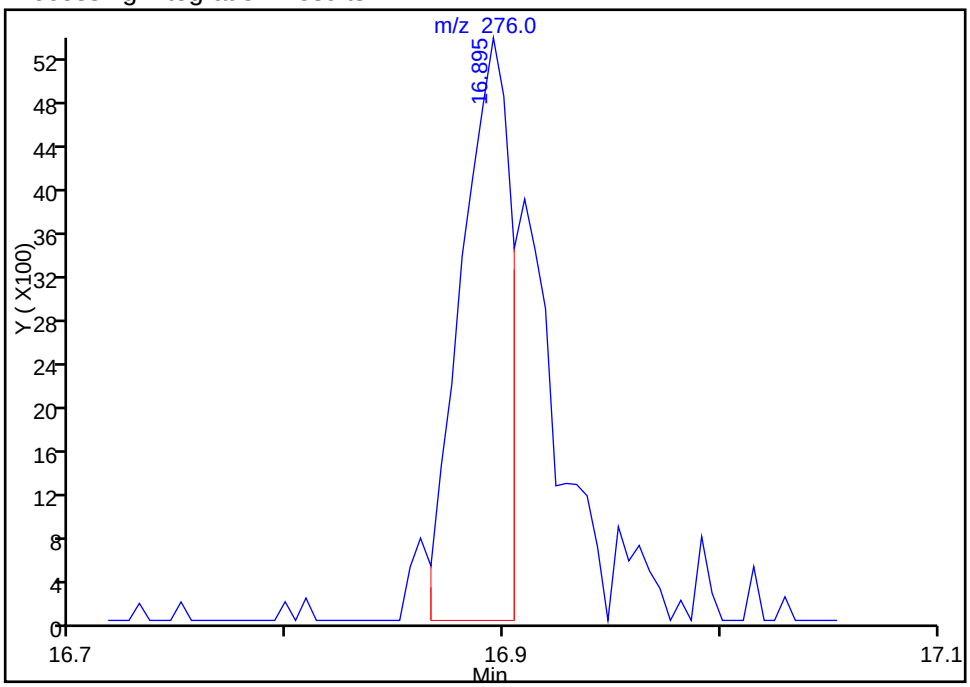
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D
Injection Date: 20-Apr-2015 10:31:30 Instrument ID: A4HP9
Lims ID: std1 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

190 Benzo[g,h,i]perylene, CAS: 191-24-2

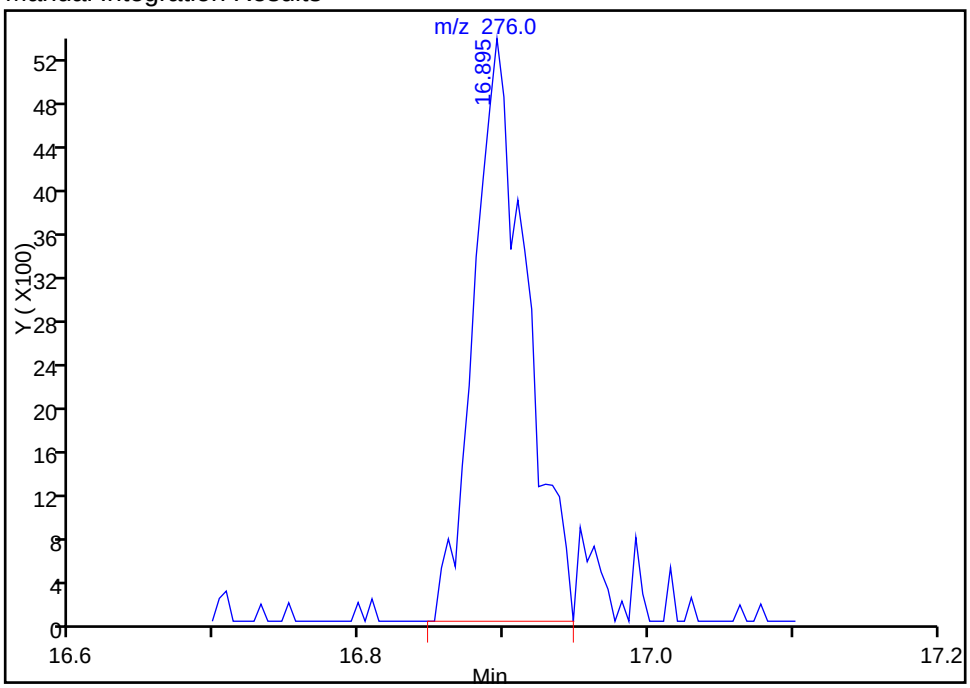
Processing Integration Results

RT: 16.90
Area: 8657
Amount: 0.080651
Amount Units: ng/ul



Manual Integration Results

RT: 16.90
Area: 13582
Amount: 0.119361
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:57:22
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Report Date: 21-Apr-2015 07:01:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D
Lims ID: std9 lst1
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 20-Apr-2015 10:56:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-007
Misc. Info.: STD9 LST1STD9 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:00 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 11:59:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.378	0.003	85	125811	4.00	4.00	
* 2 Naphthalene-d8	136	7.496	7.494	0.002	98	469432	4.00	4.00	
* 3 Acenaphthene-d10	164	9.001	9.004	-0.003	78	299359	4.00	4.00	
* 4 Phenanthrene-d10	188	10.276	10.273	0.003	98	528965	4.00	4.00	
* 5 Chrysene-d12	240	12.579	12.572	0.007	80	612076	4.00	4.00	
* 6 Perylene-d12	264	14.363	14.361	0.002	96	544747	4.00	4.00	
$ 7 2-Fluorophenol	112		5.162				ND	ND	
$ 8 Phenol-d5	99	6.020	6.013	0.007	80	1816095	25.0	26.2	
$ 9 Nitrobenzene-d5	82	6.857	6.854	0.003	83	2163859	25.0	25.3	
$ 10 2-Fluorobiphenyl (Surr)	172	8.400	8.398	0.002	97	2483500	25.0	24.7	
$ 11 2,4,6-Tribromophenol	330	9.675	9.672	0.003	83	285003	25.0	25.7	
$ 12 Terphenyl-d14	244	11.603	11.601	0.002	98	3178109	25.0	25.5	
25 1,4-Dioxane	88	3.091	3.079	0.012	80	796449	25.0	29.8	M
26 N-Nitrosodimethylamine	74	3.577	3.560	0.017	90	1219548	25.0	27.4	
27 Pyridine	79	3.625	3.618	0.007	92	1982612	25.0	27.7	
41 Benzaldehyde	77	5.986	5.984	0.002	82	2405523	50.0	45.8	
43 Phenol	94	6.030	6.027	0.003	78	1983859	25.0	26.4	
44 Aniline	93	6.083	6.075	0.008	93	2317533	25.0	24.8	
69 Bis(2-chloroethyl)ether	93	6.121	6.114	0.007	91	1599325	25.0	25.4	
46 2-Chlorophenol	128	6.198	6.196	0.002	90	1096775	25.0	24.9	
243 n-Decane	57	6.227	6.224	0.003	97	1419482	NC	NC	
47 1,3-Dichlorobenzene	146	6.337	6.335	0.002	80	1213423	25.0	25.5	
48 1,4-Dichlorobenzene	146	6.395	6.398	-0.003	77	1239675	25.0	25.7	
49 Benzyl alcohol	108	6.482	6.474	0.008	84	932286	25.0	26.3	
50 1,2-Dichlorobenzene	146	6.539	6.537	0.002	84	1163941	25.0	25.9	
51 2-Methylphenol	108	6.568	6.566	0.002	77	1254684	25.0	25.7	
53 2,2'-oxybis[1-chloropropan	45	6.602	6.595	0.007	98	1355437	25.0	26.3	
52 Indene	115	6.616	6.614	0.002	68	4722832	50.0	53.3	
21 3 & 4 Methylphenol	108	6.698	6.691	0.007	95	1380158	25.0	26.7	
57 N-Nitrosodi-n-propylamine	70	6.712	6.705	0.007	95	1433453	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.722	6.715	0.007	75	2015330	25.0	26.9	
61 Hexachloroethane	117	6.842	6.840	0.002	92	612821	25.0	26.8	
62 Nitrobenzene	77	6.876	6.869	0.007	70	1967292	25.0	24.9	
64 Isophorone	82	7.078	7.071	0.007	94	3453992	25.0	25.9	
66 2-Nitrophenol	139	7.155	7.153	0.002	82	587986	25.0	27.0	
65 2,4-Dimethylphenol	107	7.160	7.157	0.003	96	1505005	25.0	26.0	
71 Benzoic acid	122	7.256	7.196	0.060	83	1417052	50.0	51.4	M
70 Bis(2-chloroethoxy)methane	93	7.237	7.234	0.003	98	1775944	25.0	26.5	
73 2,4-Dichlorophenol	162	7.357	7.354	0.003	87	914165	25.0	26.2	
74 1,2,4-Trichlorobenzene	180	7.439	7.441	-0.002	85	1007107	25.0	26.2	
75 Naphthalene	128	7.516	7.513	0.003	98	3188013	25.0	25.4	
76 4-Chloroaniline	127	7.535	7.532	0.003	54	1404257	25.0	25.6	
77 2,6-Dichlorophenol	162	7.554	7.552	0.002	63	895770	25.0	26.2	
79 Hexachlorobutadiene	225	7.617	7.619	-0.002	90	672471	25.0	26.0	
84 Caprolactam	113	7.843	7.807	0.036	79	785426	50.0	53.5	M
86 4-Chloro-3-methylphenol	107	7.929	7.922	0.007	78	1308872	25.0	26.7	
87 2-Methylnaphthalene	142	8.102	8.105	-0.003	80	2149188	25.0	26.1	
88 1-Methylnaphthalene	142	8.194	8.191	0.003	80	1862085	25.0	26.7	
89 Hexachlorocyclopentadiene	237	8.246	8.244	0.002	86	734839	25.0	26.3	
91 1,2,4,5-Tetrachlorobenzene	216	8.251	8.249	0.002	95	1079990	25.0	25.0	
92 2,4,6-Trichlorophenol	196	8.333	8.331	0.002	91	767417	25.0	26.7	
93 2,4,5-Trichlorophenol	196	8.372	8.364	0.008	91	773840	25.0	25.8	
98 1,1'-Biphenyl	154	8.492	8.489	0.003	97	2609206	25.0	24.8	
100 2-Chloronaphthalene	162	8.525	8.523	0.002	98	2107044	25.0	25.4	
102 2-Nitroaniline	65	8.588	8.581	0.007	70	1057455	25.0	25.1	
105 Dimethyl phthalate	163	8.723	8.715	0.008	93	2325490	25.0	24.9	
106 1,3-Dinitrobenzene	168	8.756	8.749	0.007	80	399169	25.0	26.6	
107 2,6-Dinitrotoluene	165	8.780	8.773	0.007	61	543717	25.0	24.8	
109 Acenaphthylene	152	8.886	8.884	0.002	90	3328512	25.0	25.9	
110 3-Nitroaniline	138	8.934	8.927	0.007	81	554662	25.0	25.4	
111 2,4-Dinitrophenol	184	9.021	9.014	0.007	93	809332	50.0	51.2	
112 Acenaphthene	153	9.030	9.028	0.002	91	2110449	25.0	25.3	
113 4-Nitrophenol	109	9.050	9.038	0.012	40	1065502	50.0	51.5	
114 2,4-Dinitrotoluene	165	9.131	9.124	0.007	80	756173	25.0	26.5	
116 Dibenzofuran	168	9.175	9.172	0.003	85	2940156	25.0	25.9	
119 2,3,4,6-Tetrachlorophenol	232	9.271	9.268	0.003	73	629702	25.0	26.0	
121 Diethyl phthalate	149	9.314	9.307	0.007	95	2408629	25.0	25.5	
247 Hexadecane	57	9.319	9.316	0.003	92	1733598	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.444	9.442	0.002	89	1221605	25.0	25.2	
125 4-Nitroaniline	138	9.458	9.446	0.012	65	571890	25.0	27.1	
126 Fluorene	166	9.473	9.466	0.007	100	2432427	25.0	25.5	
128 4,6-Dinitro-2-methylphenol	198	9.487	9.480	0.007	90	1014166	50.0	52.5	
131 N-Nitrosodiphenylamine	169	9.540	9.533	0.007	98	3649375	50.0	51.3	
132 1,2-Diphenylhydrazine	77	9.579	9.576	0.002	98	3625120	25.0	24.5	
133 Azobenzene	77	9.579	9.576	0.002	95	3624950	25.0	24.5	
139 4-Bromophenyl phenyl ether	248	9.862	9.860	0.002	69	684530	25.0	25.3	
141 Hexachlorobenzene	284	9.954	9.951	0.003	84	643091	25.0	24.1	
142 Atrazine	200	9.968	9.956	0.012	85	1444150	50.0	53.0	
244 n-Octadecane	57	10.093	10.096	-0.003	83	1483813	NC	NC	
143 Pentachlorophenol	266	10.107	10.105	0.002	81	953443	50.0	49.8	
148 Phenanthrene	178	10.300	10.293	0.007	87	3573119	25.0	25.7	
149 Anthracene	178	10.343	10.336	0.007	87	3652900	25.0	26.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.454	10.451	0.003	84	3117134	25.0	25.1	
154 Di-n-butyl phthalate	149	10.694	10.692	0.002	100	4067476	25.0	26.2	
159 Fluoranthene	202	11.319	11.312	0.007	98	4183231	25.0	26.1	
160 Benzidine	184	11.387	11.384	0.003	88	4548704	50.0	51.2	
161 Pyrene	202	11.521	11.519	0.002	95	4352476	25.0	26.0	
168 Butyl benzyl phthalate	149	11.978	11.976	0.002	91	1972015	25.0	25.3	
173 Bis(2-ethylhexyl) phthalat	149	12.464	12.461	0.003	95	2657049	25.0	25.7	
175 3,3'-Dichlorobenzidine	252	12.502	12.495	0.007	59	2963930	50.0	53.1	
177 Benzo[a]anthracene	228	12.565	12.562	0.003	89	4343670	25.0	25.3	
178 Chrysene	228	12.608	12.601	0.007	92	4035079	25.0	25.7	
180 Di-n-octyl phthalate	149	13.127	13.125	0.002	98	5115692	25.0	26.7	
182 Benzo[b]fluoranthene	252	13.810	13.803	0.007	84	4188034	25.0	25.5	
183 Benzo[k]fluoranthene	252	13.849	13.837	0.012	86	4143610	25.0	25.1	
184 Benzo[a]pyrene	252	14.291	14.279	0.012	74	4244066	25.0	27.1	
188 Indeno[1,2,3-cd]pyrene	276	16.335	16.304	0.031	83	3714112	25.0	23.4	
189 Dibenz(a,h)anthracene	278	16.340	16.313	0.027	76	3102596	25.0	23.7	
190 Benzo[g,h,i]perylene	276	16.936	16.910	0.026	94	2854916	25.0	21.7	
S 191 Methyl Phenols,Total	100				0			52.3	
S 245 Total Cresols	100				0			52.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L9 W_00005 Amount Added: 1.00 Units: mL

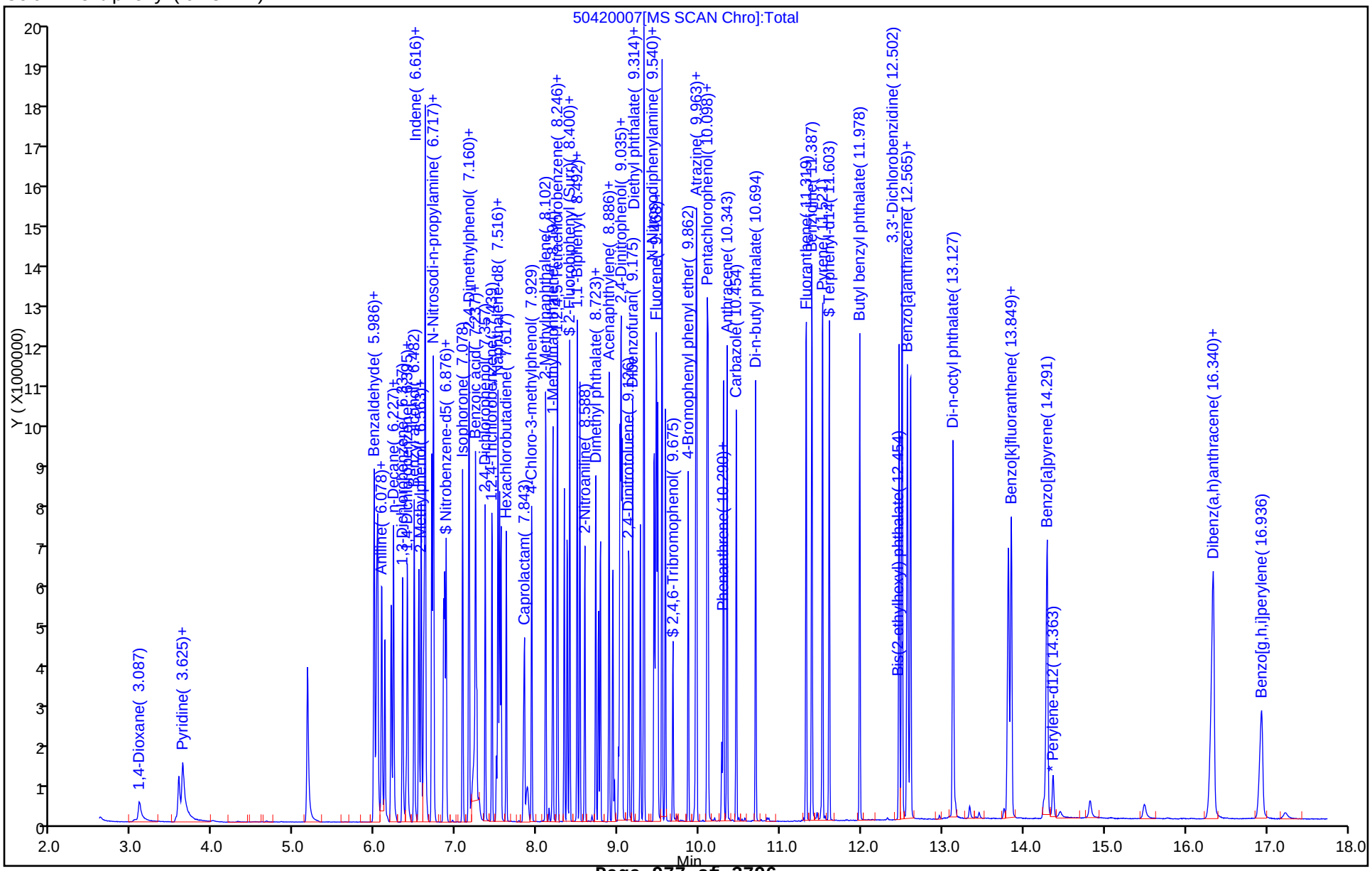
Report Date: 21-Apr-2015 07:01:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D

Injection Date:	20-Apr-2015 10:56:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std9 lst1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

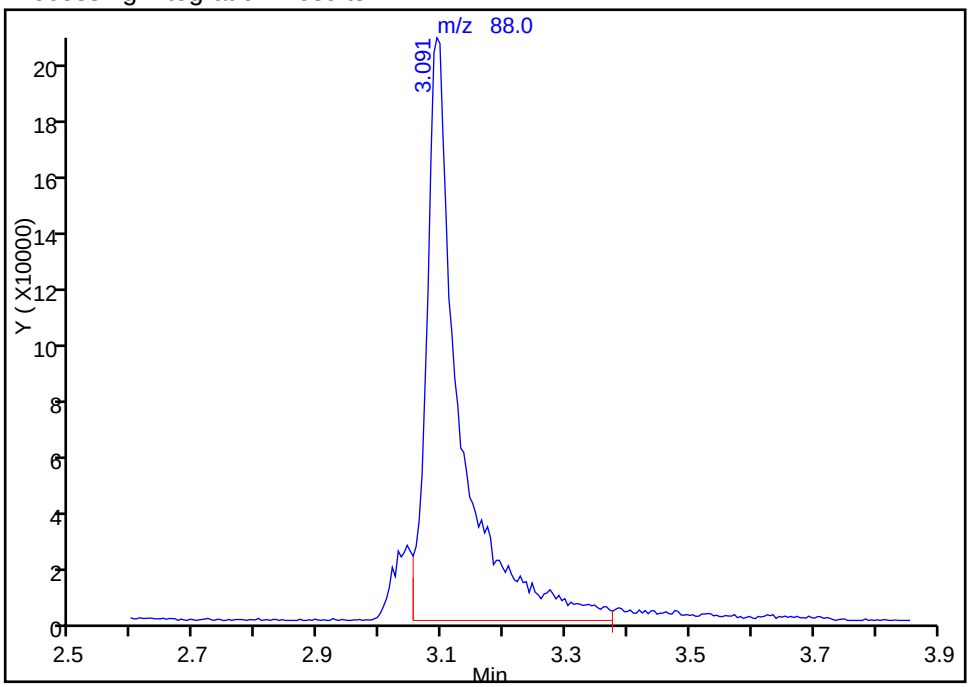
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D
Injection Date: 20-Apr-2015 10:56:30 Instrument ID: A4HP9
Lims ID: std9 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

25 1,4-Dioxane, CAS: 123-91-1

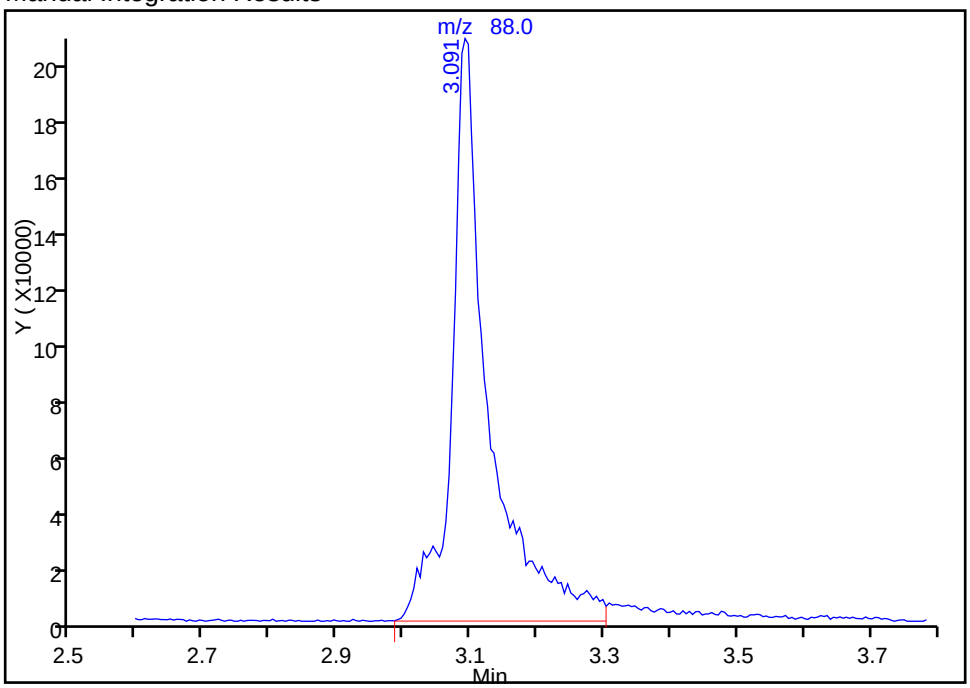
Processing Integration Results

RT: 3.09
Area: 766297
Amount: 29.146349
Amount Units: ng/ul



Manual Integration Results

RT: 3.09
Area: 796449
Amount: 29.827805
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:59:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

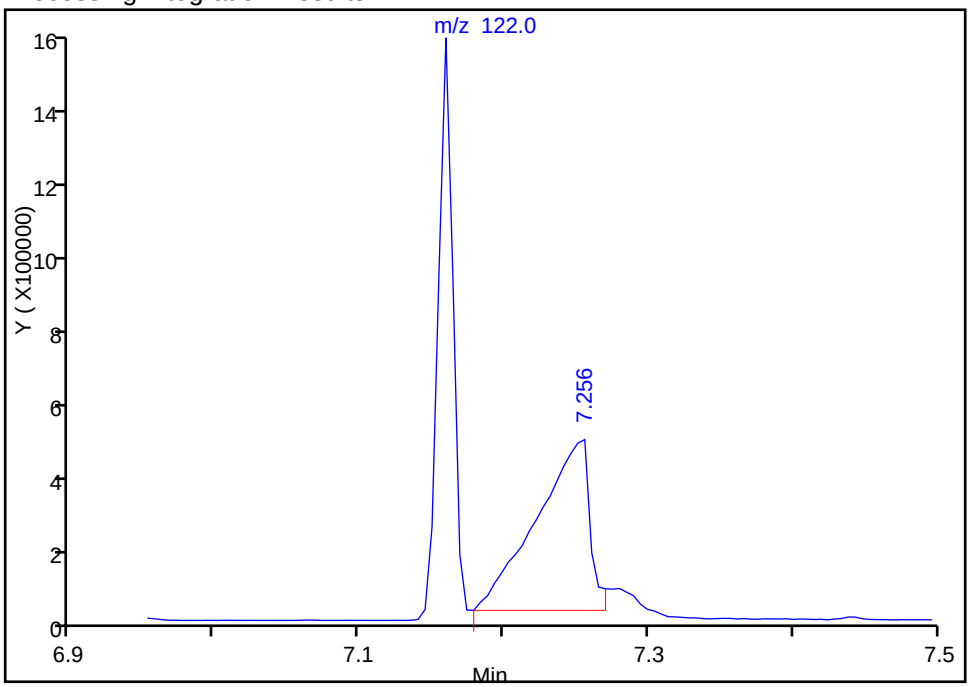
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D
Injection Date: 20-Apr-2015 10:56:30 Instrument ID: A4HP9
Lims ID: std9 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

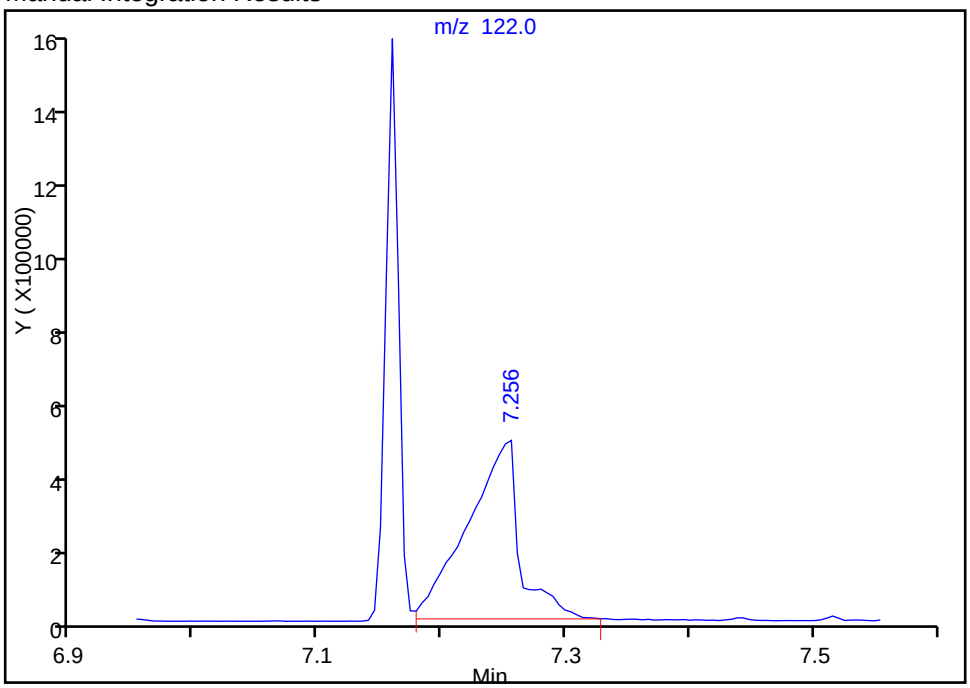
Processing Integration Results

RT: 7.26
Area: 1182736
Amount: 49.576173
Amount Units: ng/ul



Manual Integration Results

RT: 7.26
Area: 1417052
Amount: 51.369488
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:59:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

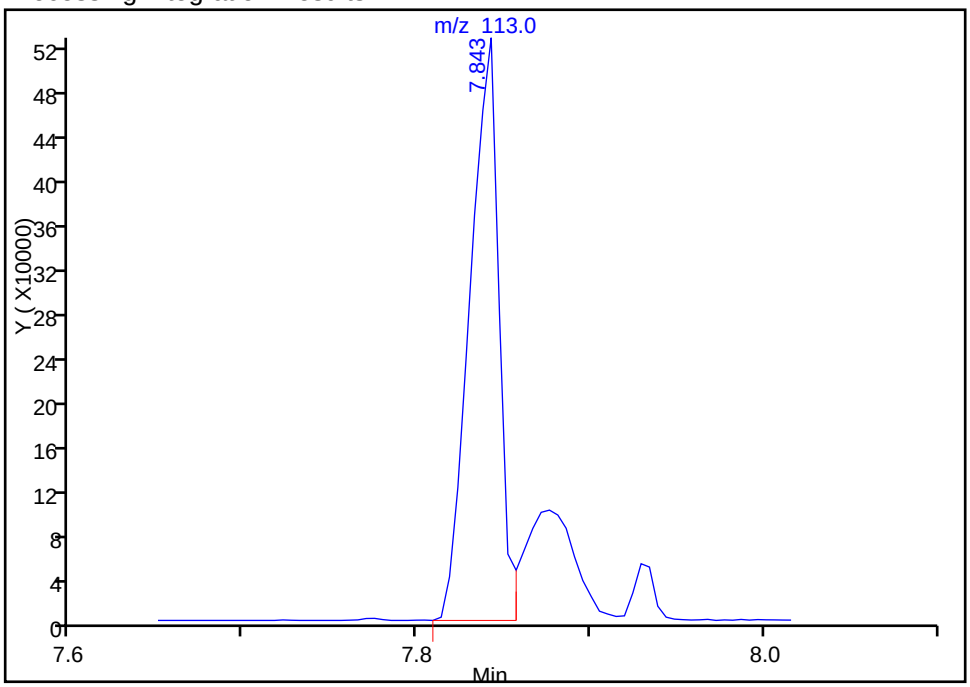
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D				
Injection Date:	20-Apr-2015 10:56:30	Instrument ID:	A4HP9		
Lims ID:	std9 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

84 Caprolactam, CAS: 105-60-2

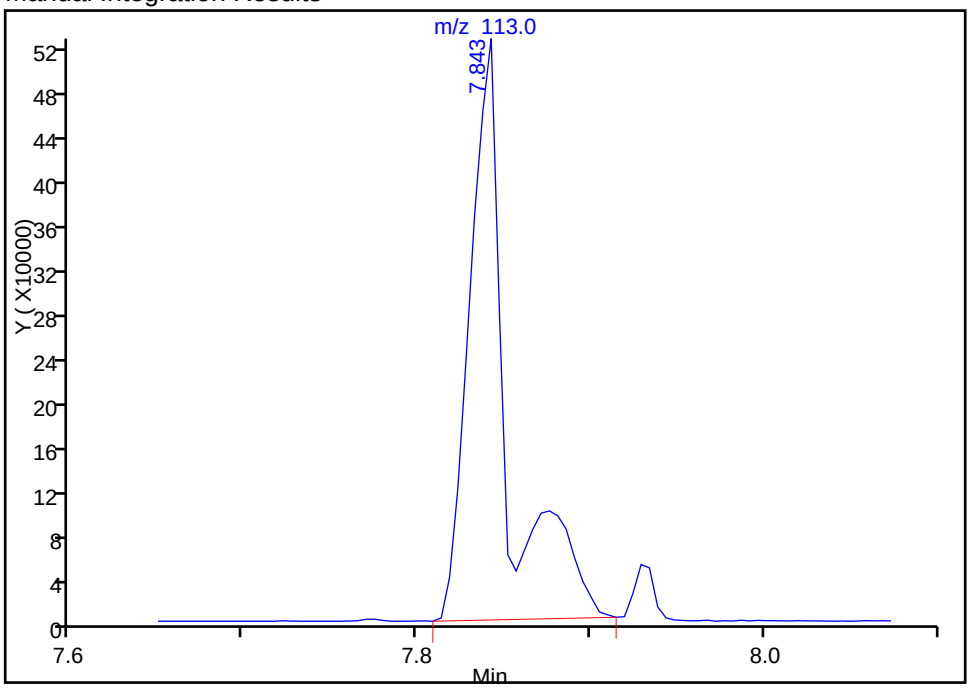
Processing Integration Results

RT: 7.84
Area: 609766
Amount: 45.147152
Amount Units: ng/ul



Manual Integration Results

RT: 7.84
Area: 785426
Amount: 53.464657
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:59:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D
Lims ID: std8 lst1
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Apr-2015 11:22:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-008
Misc. Info.: STD8 LST1STD8 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:04 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 12:02:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.378	0.003	93	136747	4.00	4.00	
* 2 Naphthalene-d8	136	7.496	7.494	0.002	98	513229	4.00	4.00	
* 3 Acenaphthene-d10	164	9.002	9.004	-0.002	78	319069	4.00	4.00	
* 4 Phenanthrene-d10	188	10.276	10.273	0.003	95	624371	4.00	4.00	
* 5 Chrysene-d12	240	12.579	12.572	0.007	76	653369	4.00	4.00	
* 6 Perylene-d12	264	14.363	14.361	0.002	94	565638	4.00	4.00	
$ 7 2-Fluorophenol	112	5.164	5.162	0.002	94	1184060	20.0	23.5	
$ 8 Phenol-d5	99	6.015	6.013	0.002	75	1459687	20.0	19.4	
$ 9 Nitrobenzene-d5	82	6.857	6.854	0.003	83	1813424	20.0	19.4	
$ 10 2-Fluorobiphenyl (Surr)	172	8.401	8.398	0.002	98	2091076	20.0	19.5	
$ 11 2,4,6-Tribromophenol	330	9.675	9.672	0.003	86	232521	20.0	19.7	
$ 12 Terphenyl-d14	244	11.603	11.601	0.002	98	2639723	20.0	19.9	
25 1,4-Dioxane	88	3.077	3.079	-0.002	80	651861	20.0	22.5	
26 N-Nitrosodimethylamine	74	3.563	3.560	0.003	86	1055854	20.0	21.8	
27 Pyridine	79	3.616	3.618	-0.002	92	1667107	20.0	21.4	
41 Benzaldehyde	77	5.986	5.984	0.002	84	2041192	40.0	35.8	
43 Phenol	94	6.030	6.027	0.003	91	1613653	20.0	19.8	
44 Aniline	93	6.078	6.075	0.003	93	1993104	20.0	19.6	
69 Bis(2-chloroethyl)ether	93	6.116	6.114	0.002	93	1336553	20.0	19.5	
46 2-Chlorophenol	128	6.198	6.196	0.002	90	923734	20.0	19.3	
243 n-Decane	57	6.222	6.224	-0.002	97	1204864	NC	NC	
47 1,3-Dichlorobenzene	146	6.338	6.335	0.003	79	1012760	20.0	19.6	
48 1,4-Dichlorobenzene	146	6.395	6.398	-0.003	78	1055490	20.0	20.1	
49 Benzyl alcohol	108	6.482	6.474	0.008	83	755608	20.0	19.6	
50 1,2-Dichlorobenzene	146	6.539	6.537	0.002	80	983121	20.0	20.1	
51 2-Methylphenol	108	6.564	6.566	-0.002	86	1078178	20.0	20.3	
53 2,2'-oxybis[1-chloropropan	45	6.597	6.595	0.002	97	1086251	20.0	19.4	
52 Indene	115	6.616	6.614	0.002	69	3910748	40.0	40.6	
21 3 & 4 Methylphenol	108	6.698	6.691	0.007	94	1136122	20.0	20.2	
57 N-Nitrosodi-n-propylamine	70	6.713	6.705	0.008	95	1170582	20.0	19.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.717	6.715	0.002	78	1643167	20.0	20.2	
61 Hexachloroethane	117	6.842	6.840	0.002	89	514178	20.0	20.7	
62 Nitrobenzene	77	6.876	6.869	0.007	72	1652384	20.0	19.2	
64 Isophorone	82	7.078	7.071	0.007	94	2910921	20.0	20.0	
66 2-Nitrophenol	139	7.150	7.153	-0.003	71	488712	20.0	20.5	
65 2,4-Dimethylphenol	107	7.160	7.157	0.003	96	1241302	20.0	19.6	
71 Benzoic acid	122	7.246	7.196	0.050	81	1203448	40.0	40.2	M
70 Bis(2-chloroethoxy)methane	93	7.237	7.234	0.003	98	1486134	20.0	20.3	
73 2,4-Dichlorophenol	162	7.357	7.354	0.003	90	788964	20.0	20.7	
74 1,2,4-Trichlorobenzene	180	7.439	7.441	-0.002	83	845301	20.0	20.1	
75 Naphthalene	128	7.516	7.513	0.003	99	2719900	20.0	19.8	
76 4-Chloroaniline	127	7.535	7.532	0.003	37	1269310	20.0	21.2	M
77 2,6-Dichlorophenol	162	7.554	7.552	0.002	56	756155	20.0	20.2	
79 Hexachlorobutadiene	225	7.617	7.619	-0.002	90	562810	20.0	19.9	
84 Caprolactam	113	7.833	7.807	0.026	80	661152	40.0	41.2	M
86 4-Chloro-3-methylphenol	107	7.929	7.922	0.007	79	1110751	20.0	20.7	
87 2-Methylnaphthalene	142	8.102	8.105	-0.003	83	1812135	20.0	20.1	
88 1-Methylnaphthalene	142	8.194	8.191	0.003	79	1563474	20.0	20.5	
89 Hexachlorocyclopentadiene	237	8.247	8.244	0.003	92	627336	20.0	21.0	
91 1,2,4,5-Tetrachlorobenzene	216	8.251	8.249	0.002	95	919927	20.0	20.0	
92 2,4,6-Trichlorophenol	196	8.333	8.331	0.002	88	633938	20.0	20.7	
93 2,4,5-Trichlorophenol	196	8.367	8.364	0.003	89	649252	20.0	20.3	
98 1,1'-Biphenyl	154	8.492	8.489	0.003	96	2205577	20.0	19.7	
100 2-Chloronaphthalene	162	8.526	8.523	0.003	98	1730417	20.0	19.5	
102 2-Nitroaniline	65	8.588	8.581	0.007	70	898959	20.0	20.0	
105 Dimethyl phthalate	163	8.718	8.715	0.003	92	2000756	20.0	20.1	
106 1,3-Dinitrobenzene	168	8.756	8.749	0.007	76	335275	20.0	21.0	
107 2,6-Dinitrotoluene	165	8.780	8.773	0.007	61	461665	20.0	19.8	
109 Acenaphthylene	152	8.886	8.884	0.002	90	2761388	20.0	20.2	
110 3-Nitroaniline	138	8.929	8.927	0.002	79	458690	20.0	19.7	
111 2,4-Dinitrophenol	184	9.021	9.014	0.007	88	662271	40.0	39.8	
112 Acenaphthene	153	9.030	9.028	0.002	82	1782594	20.0	20.0	
113 4-Nitrophenol	109	9.045	9.038	0.007	38	909471	40.0	41.2	
114 2,4-Dinitrotoluene	165	9.127	9.124	0.003	77	633526	20.0	20.8	
116 Dibenzofuran	168	9.175	9.172	0.003	83	2462138	20.0	20.3	
119 2,3,4,6-Tetrachlorophenol	232	9.271	9.268	0.003	72	530025	20.0	20.6	
121 Diethyl phthalate	149	9.314	9.307	0.007	94	1962074	20.0	19.5	
247 Hexadecane	57	9.314	9.316	-0.002	75	1511457	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.444	9.442	0.002	93	1035111	20.0	20.1	
125 4-Nitroaniline	138	9.458	9.446	0.012	65	484148	20.0	21.5	
126 Fluorene	166	9.468	9.466	0.002	99	2048241	20.0	20.1	
128 4,6-Dinitro-2-methylphenol	198	9.487	9.480	0.007	85	838422	40.0	37.0	
131 N-Nitrosodiphenylamine	169	9.540	9.533	0.007	97	3015749	40.0	35.9	
132 1,2-Diphenylhydrazine	77	9.579	9.576	0.003	99	3104162	20.0	17.8	
133 Azobenzene	77	9.579	9.576	0.003	95	3103823	20.0	17.8	
139 4-Bromophenyl phenyl ether	248	9.862	9.860	0.002	68	565762	20.0	17.7	
141 Hexachlorobenzene	284	9.954	9.951	0.003	77	548893	20.0	17.4	
142 Atrazine	200	9.963	9.956	0.007	84	1177907	40.0	36.6	
244 n-Octadecane	57	10.093	10.096	-0.003	83	1486824	NC	NC	
143 Pentachlorophenol	266	10.108	10.105	0.003	79	864536	40.0	38.4	
148 Phenanthrene	178	10.295	10.293	0.002	99	3089079	20.0	18.8	
149 Anthracene	178	10.343	10.336	0.007	88	3180671	20.0	19.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.454	10.451	0.003	84	2973846	20.0	20.3	
154 Di-n-butyl phthalate	149	10.694	10.692	0.002	100	3843140	20.0	21.0	
159 Fluoranthene	202	11.315	11.312	0.003	99	3650270	20.0	19.3	
160 Benzidine	184	11.387	11.384	0.003	87	4240526	40.0	44.7	
161 Pyrene	202	11.521	11.519	0.002	95	3668016	20.0	20.5	
168 Butyl benzyl phthalate	149	11.978	11.976	0.002	91	1636215	20.0	19.7	
173 Bis(2-ethylhexyl) phthalat	149	12.464	12.461	0.003	95	2240970	20.0	20.3	
175 3,3'-Dichlorobenzidine	252	12.502	12.495	0.007	54	2472940	40.0	41.5	
177 Benzo[a]anthracene	228	12.565	12.562	0.003	89	3629694	20.0	19.8	
178 Chrysene	228	12.603	12.601	0.002	95	3348051	20.0	20.0	
180 Di-n-octyl phthalate	149	13.128	13.125	0.003	100	3907617	20.0	19.6	
182 Benzo[b]fluoranthene	252	13.810	13.803	0.007	84	3280855	20.0	19.2	
183 Benzo[k]fluoranthene	252	13.844	13.837	0.007	86	3588251	20.0	20.9	
184 Benzo[a]pyrene	252	14.286	14.279	0.007	73	3293663	20.0	20.2	
188 Indeno[1,2,3-cd]pyrene	276	16.330	16.304	0.026	87	3336574	20.0	20.3	
189 Dibenz(a,h)anthracene	278	16.335	16.313	0.022	79	2774062	20.0	20.4	
190 Benzo[g,h,i]perylene	276	16.927	16.910	0.016	92	2617903	20.0	19.2	
S 191 Methyl Phenols,Total	100				0			40.5	
S 245 Total Cresols	100				0			40.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L8 W_00005 Amount Added: 1.00 Units: mL

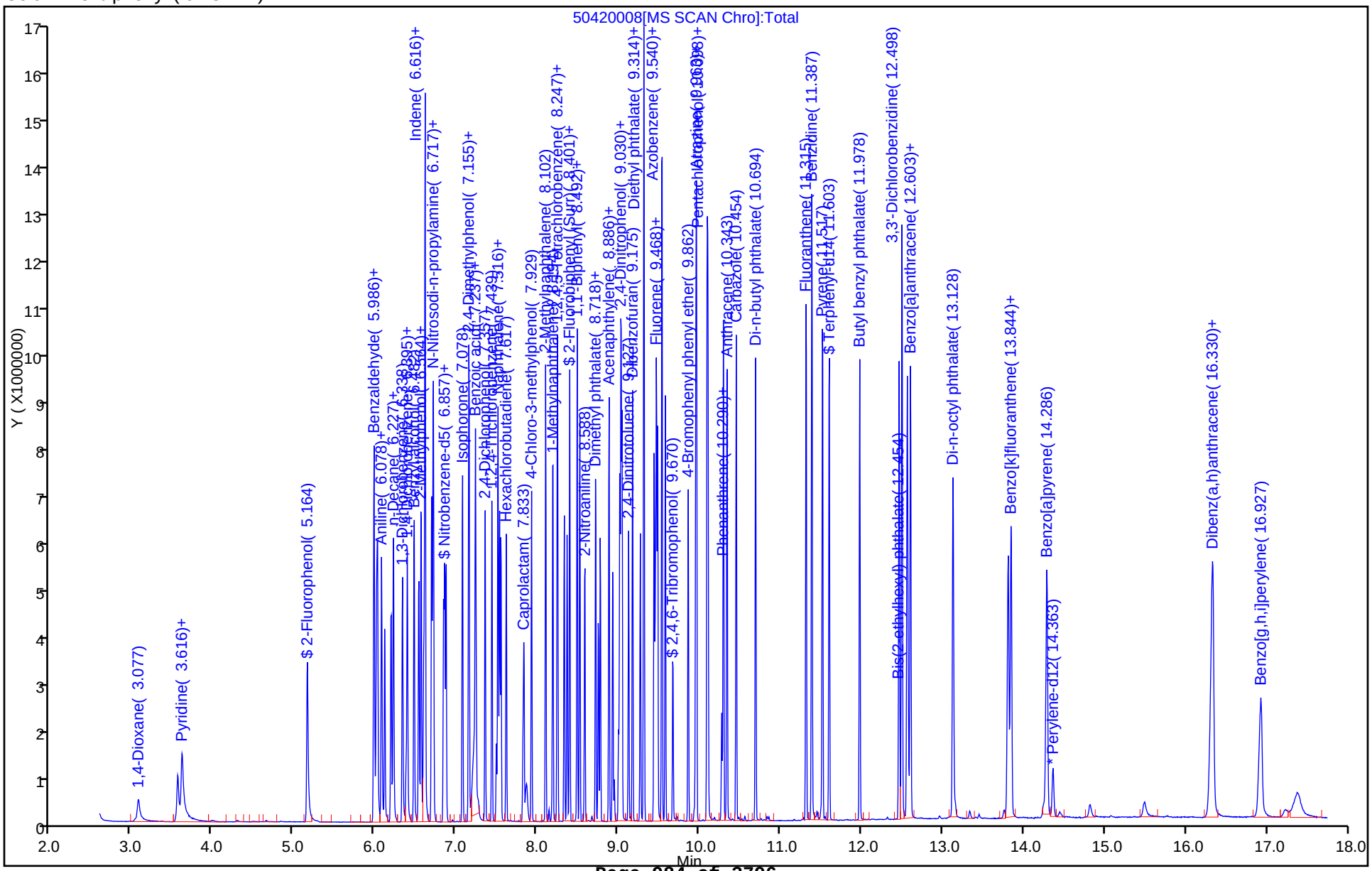
Report Date: 21-Apr-2015 07:01:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D

Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std8 lst1			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

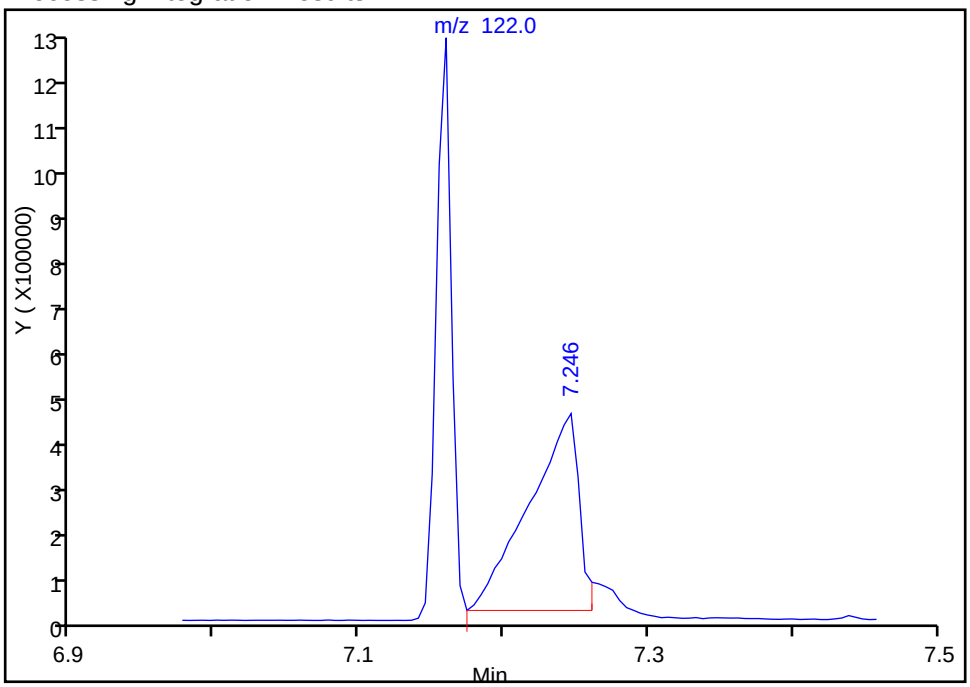
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D				
Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9		
Lims ID:	std8 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 Benzoic acid, CAS: 65-85-0

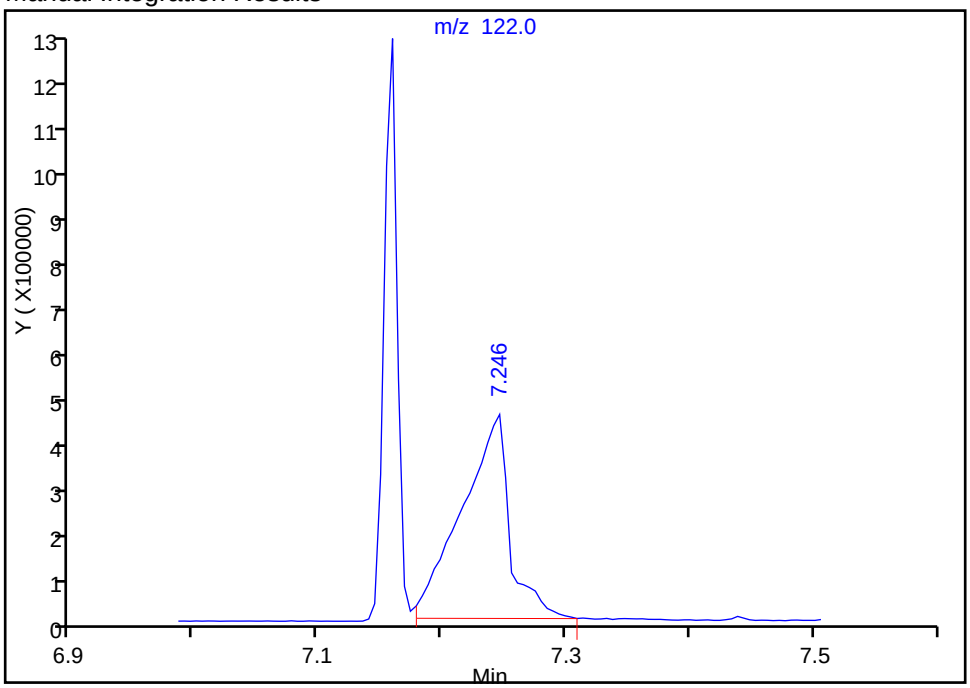
Processing Integration Results

RT: 7.25
Area: 1036672
Amount: 36.371089
Amount Units: ng/ul



Manual Integration Results

RT: 7.25
Area: 1203448
Amount: 40.225751
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:02:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

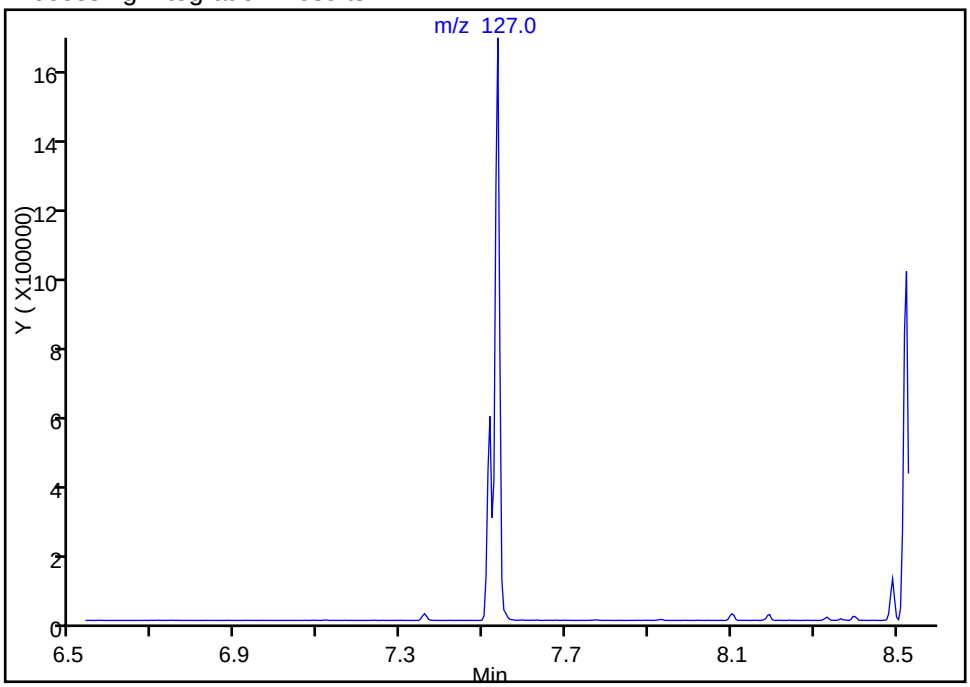
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D				
Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9		
Lims ID:	std8 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

76 4-Chloroaniline, CAS: 106-47-8

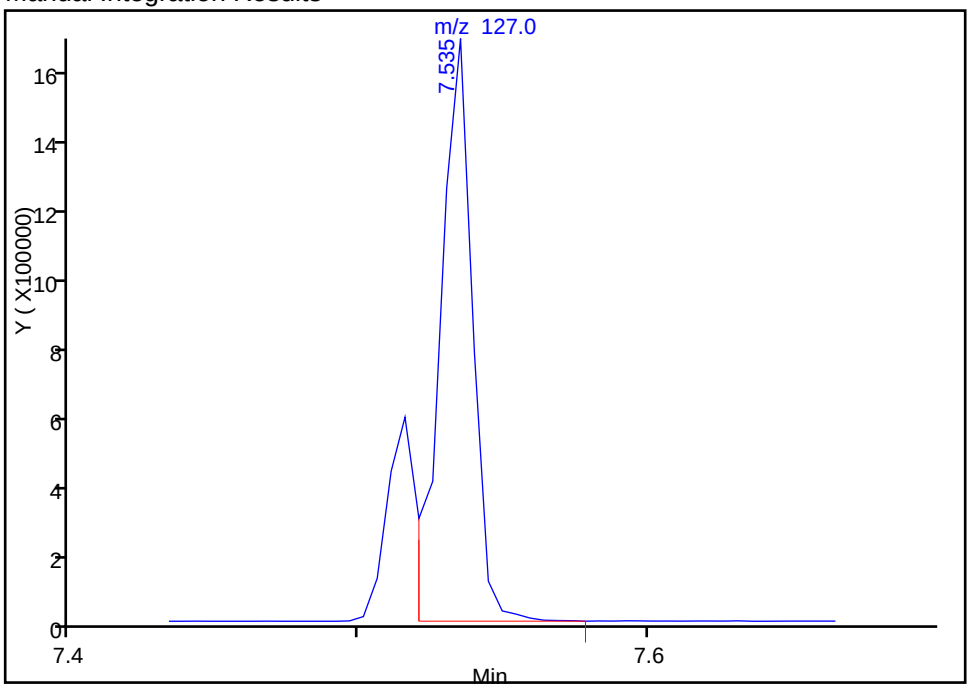
Not Detected
Expected RT: 7.53

Processing Integration Results



Manual Integration Results

RT: 7.53
Area: 1269310
Amount: 21.198300
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:02:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

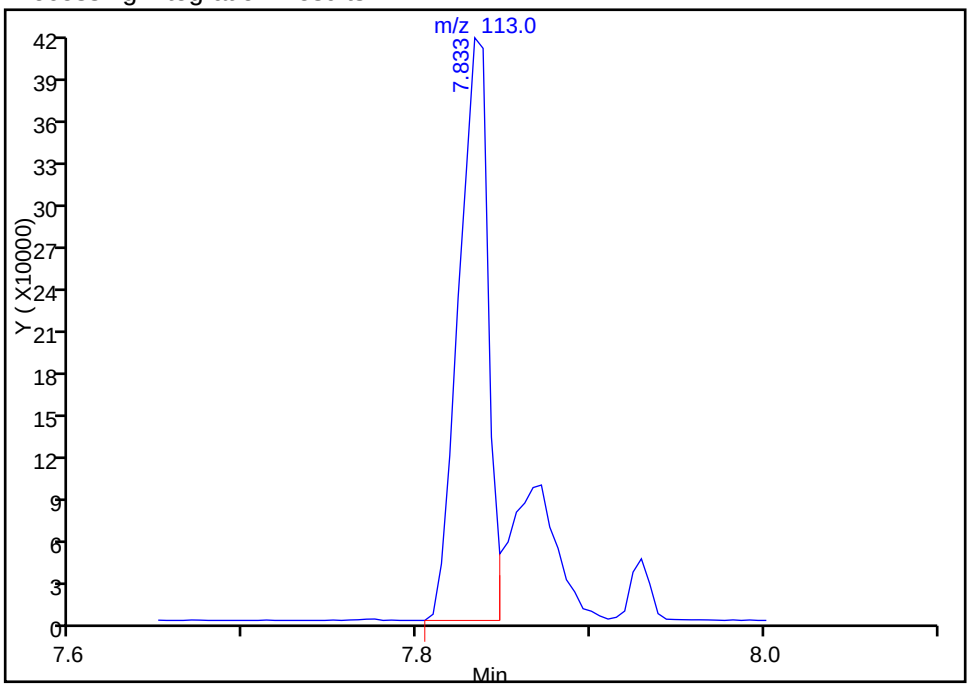
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D				
Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9		
Lims ID:	std8 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

84 Caprolactam, CAS: 105-60-2

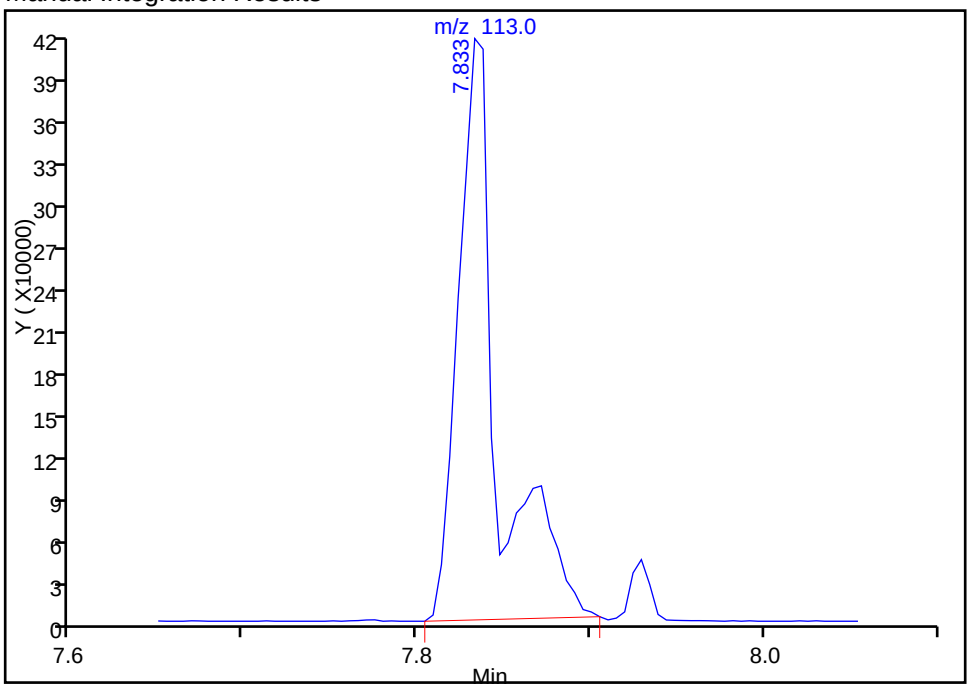
Processing Integration Results

RT: 7.83
Area: 498896
Amount: 32.382280
Amount Units: ng/ul



Manual Integration Results

RT: 7.83
Area: 661152
Amount: 41.164641
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:02:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D
Lims ID: std7 lst1
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Apr-2015 11:47:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-009
Misc. Info.: STD7 LST1STD7 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:06 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 12:14:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.378	0.004	94	126815	4.00	4.00	
* 2 Naphthalene-d8	136	7.493	7.494	-0.001	99	504652	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.004	-0.001	91	301648	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	98	547615	4.00	4.00	
* 5 Chrysene-d12	240	12.576	12.572	0.004	97	627071	4.00	4.00	
* 6 Perylene-d12	264	14.360	14.361	-0.001	98	521898	4.00	4.00	
$ 7 2-Fluorophenol	112	5.166	5.162	0.004	94	788012	15.0	16.9	
$ 8 Phenol-d5	99	6.017	6.013	0.004	94	1076581	15.0	15.4	
$ 9 Nitrobenzene-d5	82	6.858	6.854	0.004	85	1331714	15.0	14.5	
$ 10 2-Fluorobiphenyl (Surr)	172	8.397	8.398	-0.001	99	1520261	15.0	15.0	
$ 11 2,4,6-Tribromophenol	330	9.671	9.672	-0.001	83	174572	15.0	15.6	
$ 12 Terphenyl-d14	244	11.600	11.601	-0.001	99	1952012	15.0	15.3	
25 1,4-Dioxane	88	3.088	3.079	0.009	90	432945	15.0	16.1	M
26 N-Nitrosodimethylamine	74	3.569	3.560	0.009	91	776721	15.0	17.3	
27 Pyridine	79	3.622	3.618	0.004	94	1343545	15.0	18.6	
41 Benzaldehyde	77	5.983	5.984	-0.001	89	1572425	30.0	29.7	
43 Phenol	94	6.026	6.027	-0.001	95	1188566	15.0	15.7	
44 Aniline	93	6.079	6.075	0.004	95	1469438	15.0	15.6	
69 Bis(2-chloroethyl)ether	93	6.118	6.114	0.004	96	984085	15.0	15.5	
46 2-Chlorophenol	128	6.195	6.196	-0.001	88	683952	15.0	15.4	
243 n-Decane	57	6.224	6.224	0.000	98	875095	NC	NC	
47 1,3-Dichlorobenzene	146	6.339	6.335	0.004	88	740346	15.0	15.4	
48 1,4-Dichlorobenzene	146	6.397	6.398	-0.001	85	778292	15.0	16.0	
49 Benzyl alcohol	108	6.478	6.474	0.004	85	551283	15.0	15.4	
50 1,2-Dichlorobenzene	146	6.536	6.537	-0.001	87	721454	15.0	15.9	
51 2-Methylphenol	108	6.565	6.566	-0.001	93	789417	15.0	16.0	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.595	0.004	98	803960	15.0	15.5	
52 Indene	115	6.618	6.614	0.004	89	2861485	30.0	32.0	
21 3 & 4 Methylphenol	108	6.695	6.691	0.004	94	826942	15.0	15.9	
57 N-Nitrosodi-n-propylamine	70	6.709	6.705	0.004	99	866229	15.0	15.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.719	6.715	0.004	90	1222345	15.0	16.2	
61 Hexachloroethane	117	6.844	6.840	0.004	94	374905	15.0	16.2	
62 Nitrobenzene	77	6.873	6.869	0.004	82	1228211	15.0	14.5	
64 Isophorone	82	7.075	7.071	0.004	97	2145665	15.0	15.0	
66 2-Nitrophenol	139	7.152	7.153	-0.001	82	360286	15.0	15.4	
65 2,4-Dimethylphenol	107	7.156	7.157	-0.001	96	929670	15.0	15.0	
71 Benzoic acid	122	7.233	7.196	0.037	86	892363	30.0	30.7	
70 Bis(2-chloroethoxy)methane	93	7.238	7.234	0.004	99	1099899	15.0	15.3	
73 2,4-Dichlorophenol	162	7.358	7.354	0.004	94	576680	15.0	15.4	
74 1,2,4-Trichlorobenzene	180	7.440	7.441	-0.001	90	620048	15.0	15.0	
75 Naphthalene	128	7.512	7.513	-0.001	98	1980465	15.0	14.7	
76 4-Chloroaniline	127	7.532	7.532	0.000	89	894045	15.0	15.2	
77 2,6-Dichlorophenol	162	7.551	7.552	-0.001	89	559350	15.0	15.2	
79 Hexachlorobutadiene	225	7.618	7.619	-0.001	96	416879	15.0	15.0	
84 Caprolactam	113	7.825	7.807	0.018	85	492788	30.0	31.2	M
86 4-Chloro-3-methylphenol	107	7.926	7.922	0.004	88	813536	15.0	15.4	
87 2-Methylnaphthalene	142	8.104	8.105	-0.001	90	1352305	15.0	15.3	
88 1-Methylnaphthalene	142	8.190	8.191	-0.001	90	1136983	15.0	15.1	
89 Hexachlorocyclopentadiene	237	8.248	8.244	0.004	96	444101	15.0	15.8	
91 1,2,4,5-Tetrachlorobenzene	216	8.253	8.249	0.004	96	665913	15.0	15.3	
92 2,4,6-Trichlorophenol	196	8.330	8.331	-0.001	94	453458	15.0	15.6	
93 2,4,5-Trichlorophenol	196	8.368	8.364	0.004	90	466898	15.0	15.4	
98 1,1'-Biphenyl	154	8.489	8.489	-0.001	97	1601199	15.0	15.1	
100 2-Chloronaphthalene	162	8.522	8.523	-0.001	98	1250248	15.0	14.9	
102 2-Nitroaniline	65	8.585	8.581	0.004	71	662998	15.0	15.6	
105 Dimethyl phthalate	163	8.719	8.715	0.004	94	1445412	15.0	15.4	
106 1,3-Dinitrobenzene	168	8.753	8.749	0.004	80	239221	15.0	15.8	
107 2,6-Dinitrotoluene	165	8.777	8.773	0.004	81	345048	15.0	15.7	
109 Acenaphthylene	152	8.883	8.884	-0.001	98	2015345	15.0	15.6	
110 3-Nitroaniline	138	8.931	8.927	0.004	85	335723	15.0	15.3	
111 2,4-Dinitrophenol	184	9.017	9.014	0.003	93	459799	30.0	29.8	
112 Acenaphthene	153	9.032	9.028	0.004	96	1253565	15.0	14.9	
113 4-Nitrophenol	109	9.042	9.038	0.004	87	684980	30.0	32.8	
114 2,4-Dinitrotoluene	165	9.123	9.124	-0.001	81	453778	15.0	15.8	
116 Dibenzofuran	168	9.176	9.172	0.004	95	1802230	15.0	15.7	
119 2,3,4,6-Tetrachlorophenol	232	9.272	9.268	0.004	77	382719	15.0	15.7	
121 Diethyl phthalate	149	9.311	9.307	0.004	96	1405436	15.0	14.8	
247 Hexadecane	57	9.316	9.316	0.000	92	1090102	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.442	-0.001	93	764132	15.0	15.7	
125 4-Nitroaniline	138	9.455	9.446	0.009	75	357822	15.0	16.8	
126 Fluorene	166	9.470	9.466	0.004	100	1507017	15.0	15.7	
128 4,6-Dinitro-2-methylphenol	198	9.484	9.480	0.004	94	603382	30.0	30.4	
131 N-Nitrosodiphenylamine	169	9.537	9.533	0.004	98	2181833	30.0	29.6	
132 1,2-Diphenylhydrazine	77	9.580	9.576	0.004	99	2344695	15.0	15.3	
133 Azobenzene	77	9.580	9.576	0.004	95	2344821	15.0	15.3	
139 4-Bromophenyl phenyl ether	248	9.864	9.860	0.004	74	441862	15.0	15.8	
141 Hexachlorobenzene	284	9.955	9.951	0.004	88	400652	15.0	14.5	
142 Atrazine	200	9.960	9.956	0.004	89	884159	30.0	31.3	
244 n-Octadecane	57	10.095	10.096	-0.001	97	1150272	NC	NC	
143 Pentachlorophenol	266	10.104	10.105	-0.001	88	607473	30.0	30.8	
148 Phenanthrene	178	10.297	10.293	0.004	98	2136444	15.0	14.9	
149 Anthracene	178	10.340	10.336	0.004	98	2166727	15.0	15.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.455	10.451	0.004	97	2076150	15.0	16.2	
154 Di-n-butyl phthalate	149	10.691	10.692	-0.001	100	2688668	15.0	16.7	
159 Fluoranthene	202	11.316	11.312	0.004	99	2757839	15.0	16.6	
160 Benzidine	184	11.383	11.384	-0.001	99	3193120	30.0	35.1	
161 Pyrene	202	11.518	11.519	-0.001	96	2659722	15.0	15.5	
168 Butyl benzyl phthalate	149	11.975	11.976	-0.001	93	1209148	15.0	15.1	
173 Bis(2-ethylhexyl) phthalat	149	12.465	12.461	0.004	95	1596675	15.0	15.1	
175 3,3'-Dichlorobenzidine	252	12.499	12.495	0.004	75	1783742	30.0	31.2	
177 Benzo[a]anthracene	228	12.566	12.562	0.004	97	2631956	15.0	14.9	
178 Chrysene	228	12.605	12.601	0.004	96	2435297	15.0	15.1	
180 Di-n-octyl phthalate	149	13.129	13.125	0.004	100	2860004	15.0	15.6	
182 Benzo[b]fluoranthene	252	13.807	13.803	0.004	95	2402031	15.0	15.3	
183 Benzo[k]fluoranthene	252	13.846	13.837	0.009	97	2407128	15.0	15.2	
184 Benzo[a]pyrene	252	14.283	14.279	0.004	76	2294348	15.0	15.3	
188 Indeno[1,2,3-cd]pyrene	276	16.317	16.304	0.013	97	2498527	15.0	16.4	
189 Dibenz(a,h)anthracene	278	16.327	16.313	0.014	86	2027396	15.0	16.2	
190 Benzo[g,h,i]perylene	276	16.923	16.910	0.013	98	1856012	15.0	14.7	
S 191 Methyl Phenols,Total	100				0			31.9	
S 245 Total Cresols	100				0			31.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L7 W_00005 Amount Added: 1.00 Units: mL

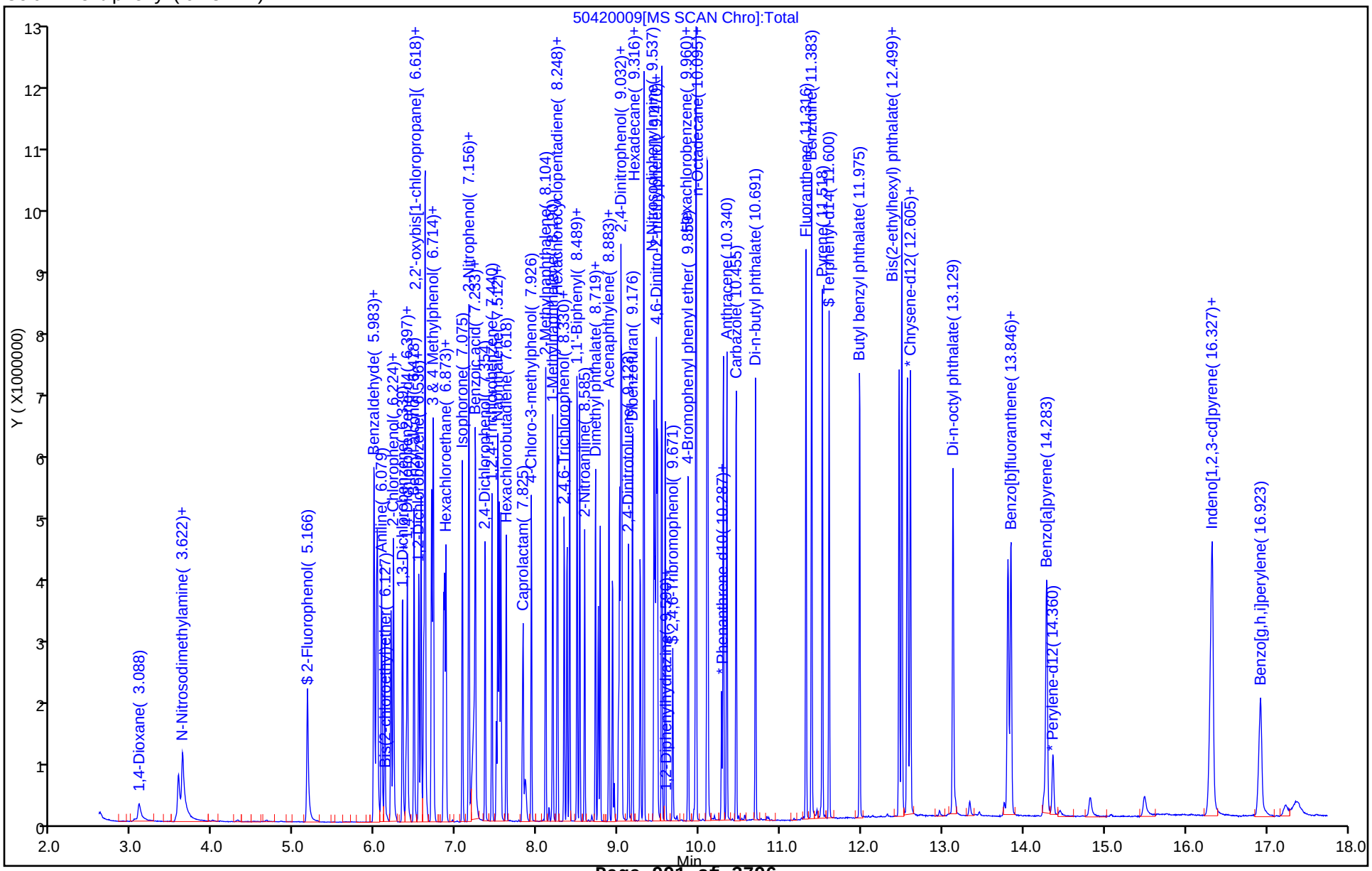
Report Date: 21-Apr-2015 07:01:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D

Injection Date:	20-Apr-2015 11:47:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std7 lst1			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

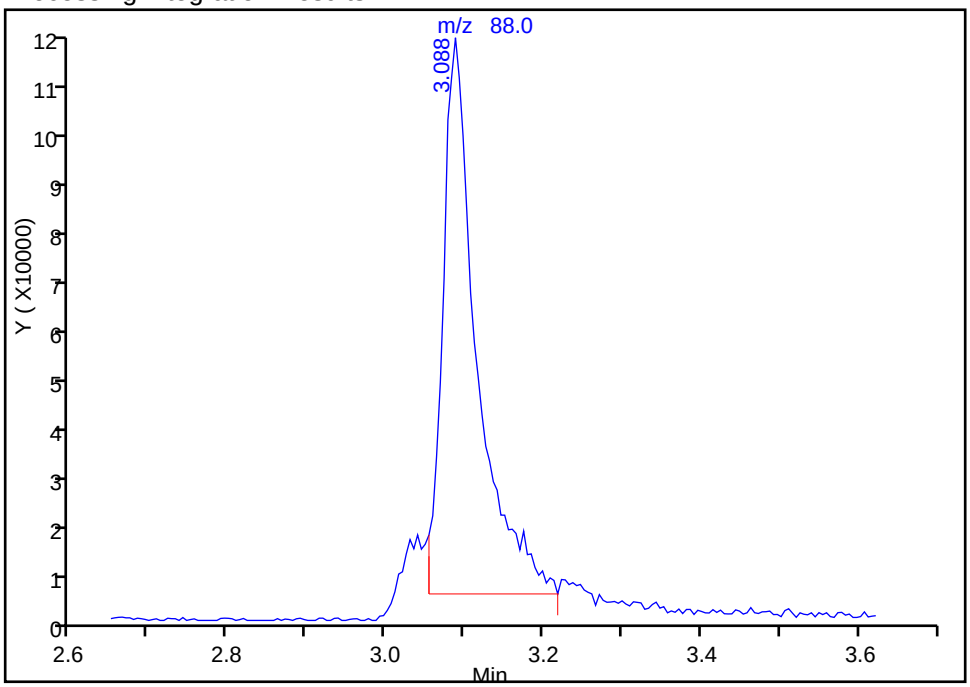
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D				
Injection Date:	20-Apr-2015 11:47:30	Instrument ID:	A4HP9		
Lims ID:	std7 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

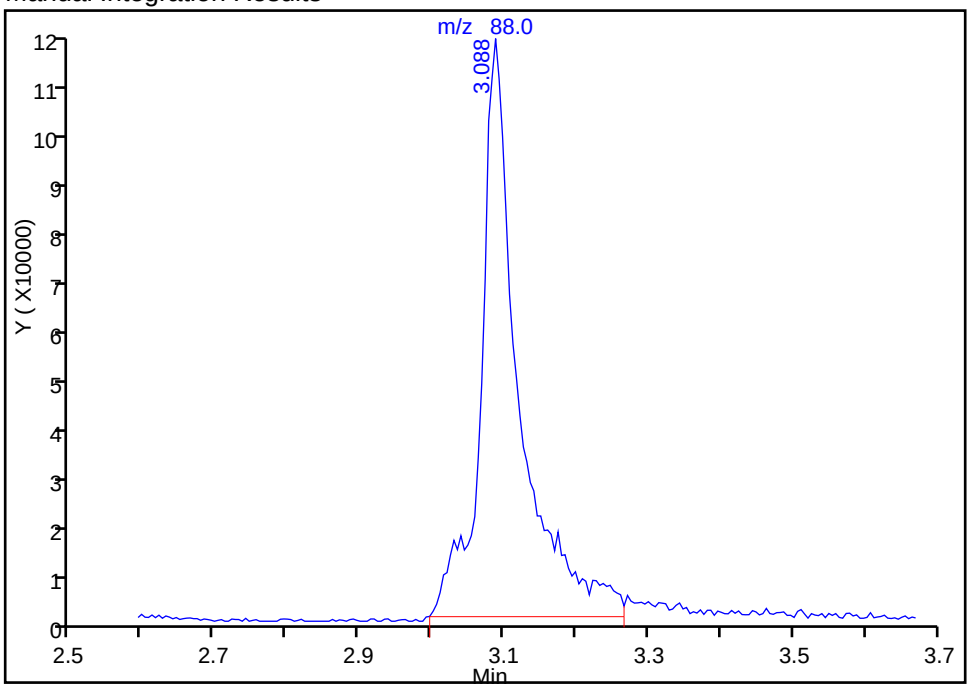
Processing Integration Results

RT: 3.09
Area: 339206
Amount: 12.986701
Amount Units: ng/ul



Manual Integration Results

RT: 3.09
Area: 432945
Amount: 16.085851
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:14:33
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

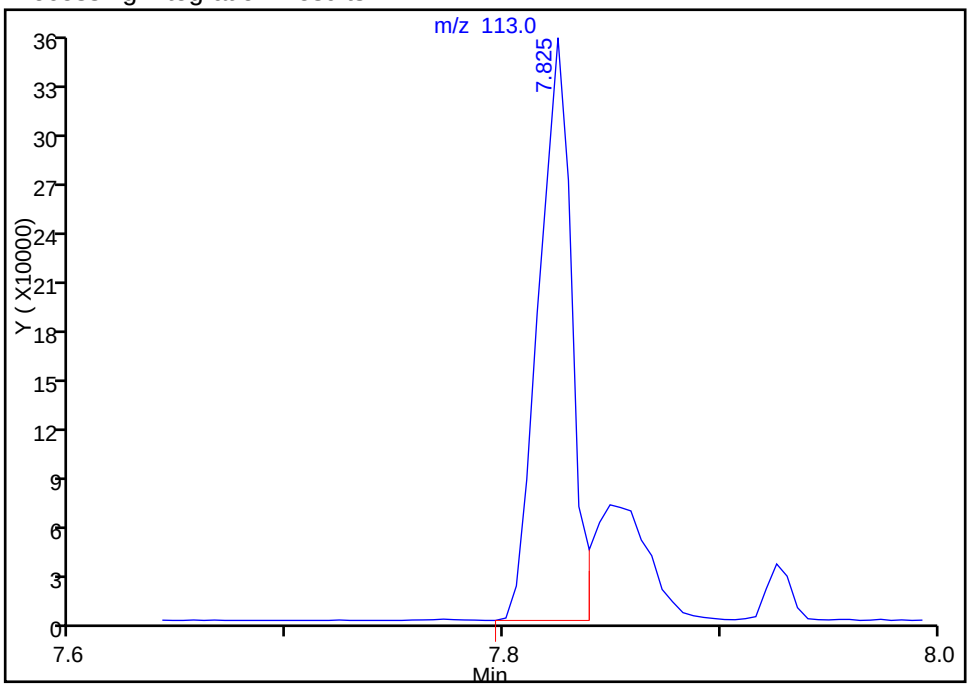
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D				
Injection Date:	20-Apr-2015 11:47:30	Instrument ID:	A4HP9		
Lims ID:	std7 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

84 Caprolactam, CAS: 105-60-2

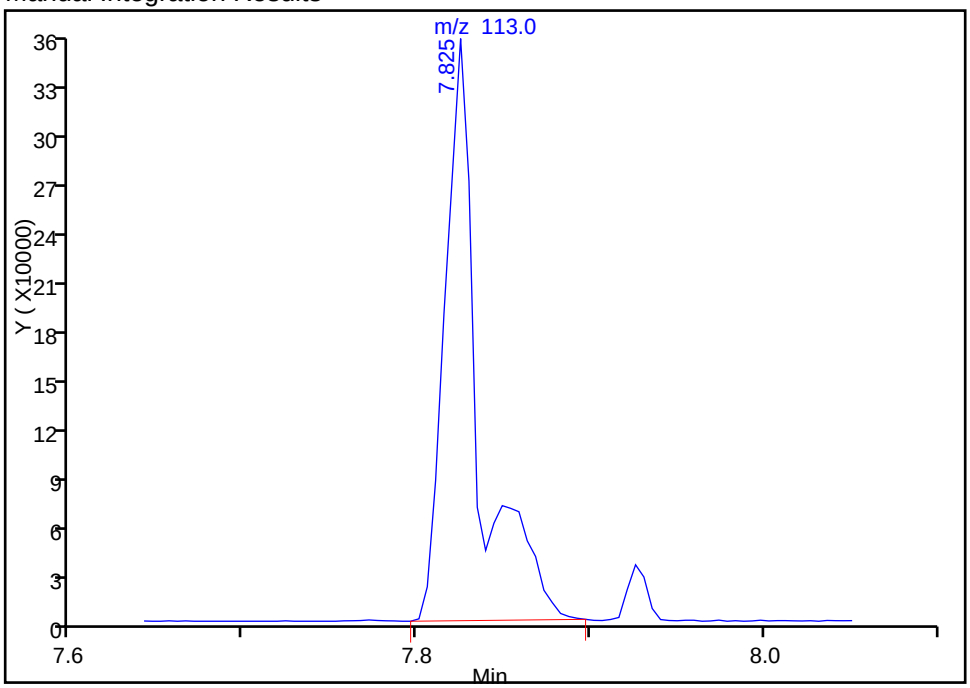
Processing Integration Results

RT: 7.82
Area: 381021
Amount: 24.791484
Amount Units: ng/ul



Manual Integration Results

RT: 7.82
Area: 492788
Amount: 31.203429
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:14:33
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Report Date: 21-Apr-2015 07:01:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D
Lims ID: std6 lst1
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 20-Apr-2015 12:41:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-010
Misc. Info.: STD6 LST1STD6 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:09 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 13:08:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.382	0.000	93	121080	4.00	4.00	
* 2 Naphthalene-d8	136	7.498	7.498	0.000	97	389871	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.003	0.000	78	235173	4.00	4.00	
* 4 Phenanthrene-d10	188	10.272	10.272	0.000	91	355837	4.00	4.00	
* 5 Chrysene-d12	240	12.576	12.576	0.000	80	468196	4.00	4.00	
* 6 Perylene-d12	264	14.365	14.365	0.000	94	382118	4.00	4.00	
$ 7 2-Fluorophenol	112	5.165	5.165	0.000	93	482119	10.0	10.8	
$ 8 Phenol-d5	99	6.012	6.012	0.000	75	678589	10.0	10.2	
$ 9 Nitrobenzene-d5	82	6.853	6.853	0.000	82	691689	10.0	9.75	
$ 10 2-Fluorobiphenyl (Surr)	172	8.402	8.402	0.000	97	756135	10.0	9.56	
$ 11 2,4,6-Tribromophenol	330	9.671	9.671	0.000	79	84325	10.0	9.68	
$ 12 Terphenyl-d14	244	11.600	11.600	0.000	97	945831	10.0	9.93	
25 1,4-Dioxane	88	3.083	3.083	0.000	91	250452	10.0	9.75	M
26 N-Nitrosodimethylamine	74	3.564	3.564	0.000	87	412035	10.0	9.61	
27 Pyridine	79	3.617	3.617	0.000	89	690245	10.0	10.0	
41 Benzaldehyde	77	5.983	5.983	0.000	82	1070982	20.0	21.2	
43 Phenol	94	6.026	6.026	0.000	94	724815	10.0	10.0	
44 Aniline	93	6.079	6.079	0.000	94	909306	10.0	10.1	
69 Bis(2-chloroethyl)ether	93	6.118	6.118	0.000	92	630143	10.0	10.4	
46 2-Chlorophenol	128	6.194	6.194	0.000	88	428031	10.0	10.1	
243 n-Decane	57	6.223	6.223	0.000	97	577224	NC	NC	
47 1,3-Dichlorobenzene	146	6.339	6.339	0.000	80	449776	10.0	9.83	
48 1,4-Dichlorobenzene	146	6.396	6.396	0.000	77	465688	10.0	10.0	
49 Benzyl alcohol	108	6.478	6.478	0.000	84	340396	10.0	9.98	
50 1,2-Dichlorobenzene	146	6.536	6.536	0.000	76	431764	10.0	9.97	
51 2-Methylphenol	108	6.565	6.565	0.000	75	467486	10.0	9.94	
53 2,2'-oxybis[1-chloropropan	45	6.598	6.598	0.000	99	527630	10.0	10.6	
52 Indene	115	6.613	6.613	0.000	70	1678273	20.0	19.7	
21 3 & 4 Methylphenol	108	6.695	6.695	0.000	94	490810	10.0	9.85	
57 N-Nitrosodi-n-propylamine	70	6.709	6.709	0.000	98	520644	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.719	6.719	0.000	76	715238	10.0	9.92	
61 Hexachloroethane	117	6.844	6.844	0.000	93	202668	10.0	9.20	
62 Nitrobenzene	77	6.873	6.873	0.000	72	625710	10.0	9.55	
64 Isophorone	82	7.074	7.074	0.000	94	1076036	10.0	9.72	
66 2-Nitrophenol	139	7.151	7.151	0.000	71	173620	10.0	9.59	
65 2,4-Dimethylphenol	107	7.156	7.156	0.000	91	467864	10.0	9.74	
71 Benzoic acid	122	7.209	7.209	0.000	69	388824	20.0	17.9	
70 Bis(2-chloroethoxy)methane	93	7.238	7.238	0.000	91	555739	10.0	9.97	
73 2,4-Dichlorophenol	162	7.358	7.358	0.000	91	282843	10.0	9.78	
74 1,2,4-Trichlorobenzene	180	7.440	7.440	0.000	83	325786	10.0	10.2	
75 Naphthalene	128	7.512	7.512	0.000	98	989882	10.0	9.50	
76 4-Chloroaniline	127	7.531	7.531	0.000	44	449363	10.0	9.88	
77 2,6-Dichlorophenol	162	7.551	7.551	0.000	72	278271	10.0	9.78	
79 Hexachlorobutadiene	225	7.618	7.618	0.000	91	215473	10.0	10.0	
84 Caprolactam	113	7.815	7.815	0.000	81	232280	20.0	19.0	
86 4-Chloro-3-methylphenol	107	7.926	7.926	0.000	78	400395	10.0	9.84	
87 2-Methylnaphthalene	142	8.104	8.104	0.000	79	660361	10.0	9.65	
88 1-Methylnaphthalene	142	8.190	8.190	0.000	79	558738	10.0	9.63	
89 Hexachlorocyclopentadiene	237	8.248	8.248	0.000	81	222471	10.0	10.1	
91 1,2,4,5-Tetrachlorobenzene	216	8.253	8.253	0.000	94	343522	10.0	10.1	
92 2,4,6-Trichlorophenol	196	8.334	8.334	0.000	89	225159	10.0	9.96	
93 2,4,5-Trichlorophenol	196	8.368	8.368	0.000	90	230561	10.0	9.77	
98 1,1'-Biphenyl	154	8.493	8.493	0.000	97	783827	10.0	9.50	
100 2-Chloronaphthalene	162	8.522	8.522	0.000	97	634735	10.0	9.72	
102 2-Nitroaniline	65	8.584	8.584	0.000	69	327945	10.0	9.91	
105 Dimethyl phthalate	163	8.719	8.719	0.000	93	724944	10.0	9.88	
106 1,3-Dinitrobenzene	168	8.753	8.753	0.000	80	120299	10.0	10.2	
107 2,6-Dinitrotoluene	165	8.777	8.777	0.000	61	170395	10.0	9.91	
109 Acenaphthylene	152	8.883	8.883	0.000	88	988563	10.0	9.80	
110 3-Nitroaniline	138	8.931	8.931	0.000	82	165332	10.0	9.65	
111 2,4-Dinitrophenol	184	9.017	9.017	0.000	92	199890	20.0	17.6	
112 Acenaphthene	153	9.032	9.032	0.000	77	630690	10.0	9.61	
113 4-Nitrophenol	109	9.036	9.036	0.000	51	316160	20.0	19.4	
114 2,4-Dinitrotoluene	165	9.123	9.123	0.000	74	216205	10.0	9.63	
116 Dibenzofuran	168	9.176	9.176	0.000	84	874539	10.0	9.80	
119 2,3,4,6-Tetrachlorophenol	232	9.272	9.272	0.000	71	191582	10.0	10.1	
121 Diethyl phthalate	149	9.311	9.311	0.000	94	684970	10.0	9.25	
247 Hexadecane	57	9.315	9.315	0.000	93	542112	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.440	9.440	0.000	95	374725	10.0	9.85	
125 4-Nitroaniline	138	9.450	9.450	0.000	76	167796	10.0	10.1	
126 Fluorene	166	9.469	9.469	0.000	100	727918	10.0	9.71	
128 4,6-Dinitro-2-methylphenol	198	9.479	9.479	0.000	91	260952	20.0	20.5	
131 N-Nitrosodiphenylamine	169	9.537	9.537	0.000	98	1105278	20.0	23.1	
132 1,2-Diphenylhydrazine	77	9.580	9.580	0.000	98	1183693	10.0	11.9	
133 Azobenzene	77	9.580	9.580	0.000	95	1183790	10.0	11.9	
139 4-Bromophenyl phenyl ether	248	9.864	9.864	0.000	63	220036	10.0	12.1	
141 Hexachlorobenzene	284	9.955	9.955	0.000	82	202550	10.0	11.3	
142 Atrazine	200	9.960	9.960	0.000	84	428554	20.0	23.4	
244 n-Octadecane	57	10.094	10.094	0.000	85	509956	NC	NC	
143 Pentachlorophenol	266	10.104	10.104	0.000	82	270585	20.0	21.3	
148 Phenanthrene	178	10.296	10.296	0.000	98	958907	10.0	10.3	
149 Anthracene	178	10.340	10.340	0.000	87	961032	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.455	10.455	0.000	83	908795	10.0	10.9	
154 Di-n-butyl phthalate	149	10.696	10.696	0.000	100	1189386	10.0	11.4	
159 Fluoranthene	202	11.316	11.316	0.000	98	1206648	10.0	11.2	
160 Benzidine	184	11.383	11.383	0.000	99	1509185	20.0	22.2	
161 Pyrene	202	11.518	11.518	0.000	95	1287533	10.0	10.0	
168 Butyl benzyl phthalate	149	11.979	11.979	0.000	91	587187	10.0	9.85	
173 Bis(2-ethylhexyl) phthalat	149	12.465	12.465	0.000	93	772509	10.0	9.76	
175 3,3'-Dichlorobenzidine	252	12.499	12.499	0.000	54	849183	20.0	19.9	
177 Benzo[a]anthracene	228	12.566	12.566	0.000	88	1289434	10.0	9.80	
178 Chrysene	228	12.605	12.605	0.000	93	1192213	10.0	9.92	
180 Di-n-octyl phthalate	149	13.134	13.134	0.000	99	1343351	10.0	9.99	
182 Benzo[b]fluoranthene	252	13.807	13.807	0.000	86	1169783	10.0	10.2	
183 Benzo[k]fluoranthene	252	13.840	13.840	0.000	89	1171945	10.0	10.1	
184 Benzo[a]pyrene	252	14.283	14.283	0.000	73	1110022	10.0	10.1	
188 Indeno[1,2,3-cd]pyrene	276	16.317	16.317	0.000	86	1199340	10.0	10.8	
189 Dibenz(a,h)anthracene	278	16.322	16.322	0.000	72	992770	10.0	10.8	
190 Benzo[g,h,i]perylene	276	16.918	16.918	0.000	90	906776	10.0	9.82	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L6 W_00005 Amount Added: 1.00 Units: mL

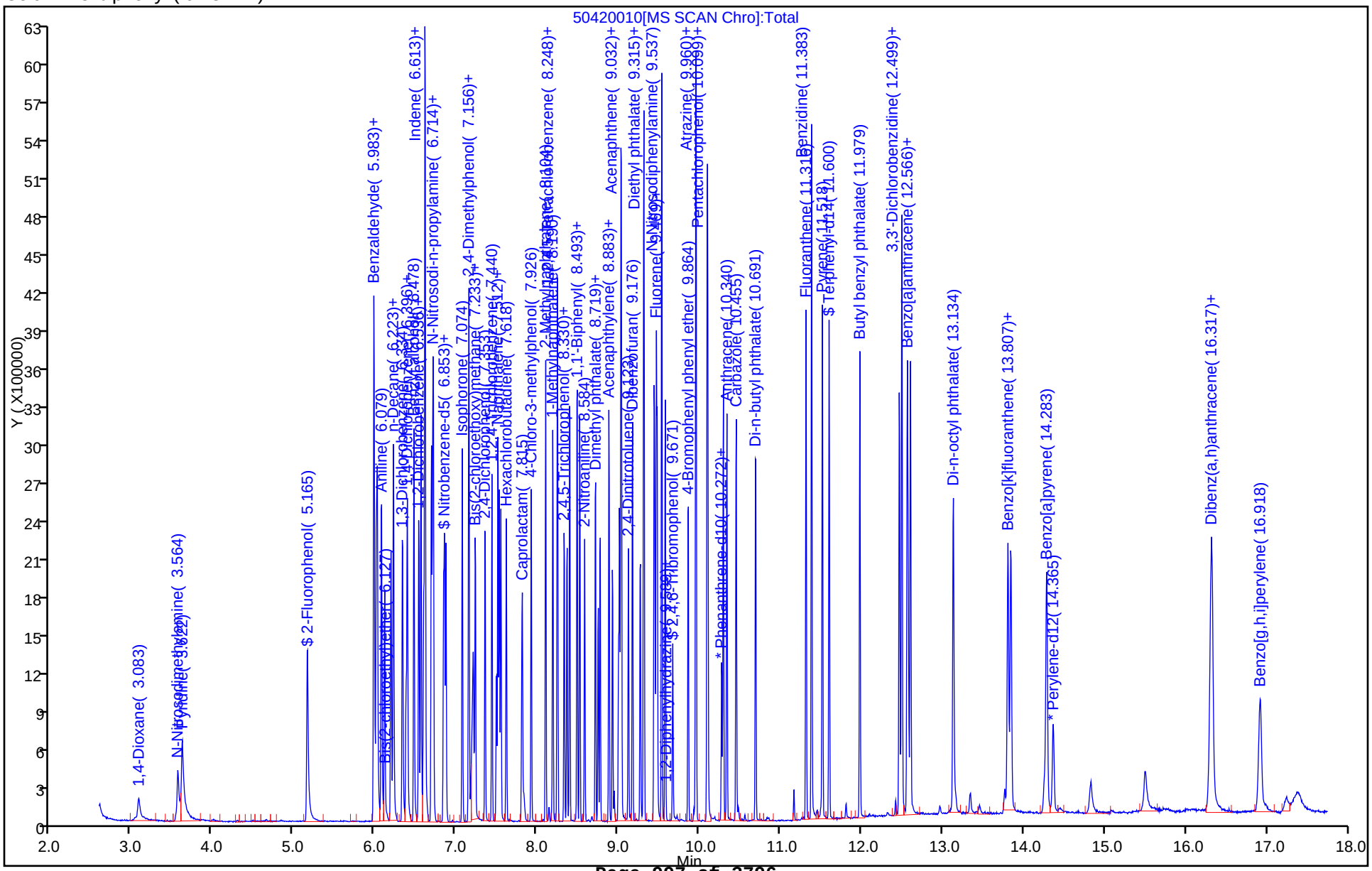
Report Date: 21-Apr-2015 07:01:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D

Injection Date:	20-Apr-2015 12:41:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std6 lst1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

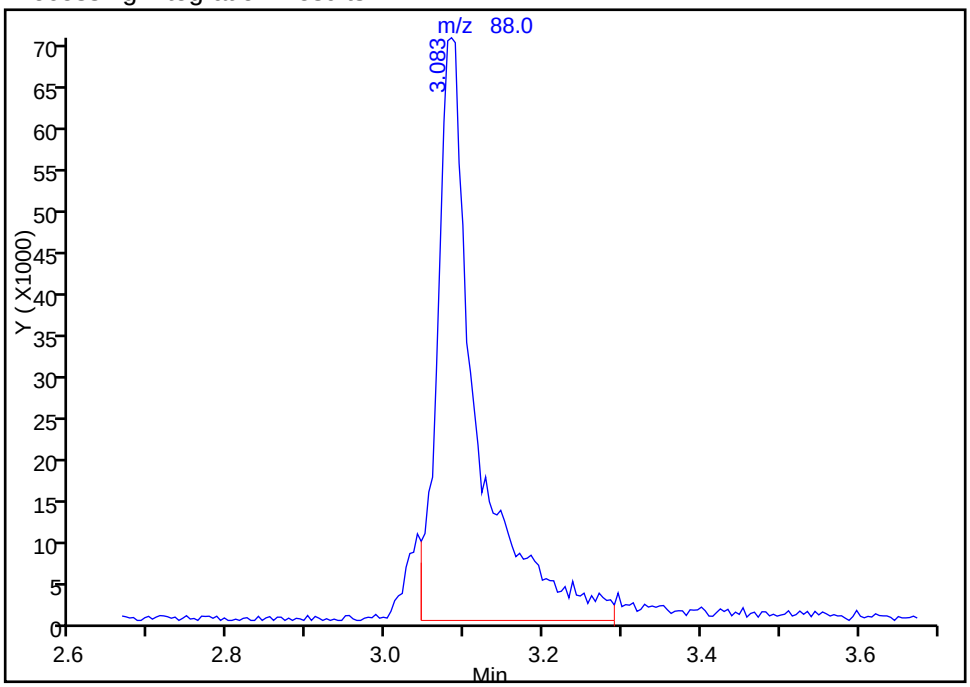
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D				
Injection Date:	20-Apr-2015 12:41:30	Instrument ID:	A4HP9		
Lims ID:	std6 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

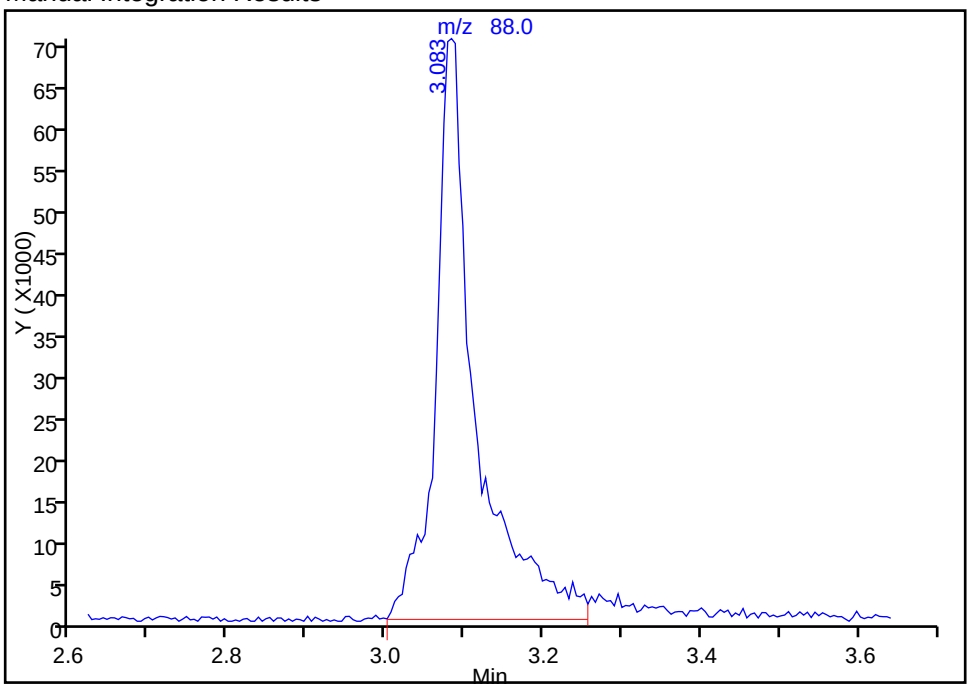
Processing Integration Results

RT: 3.08
Area: 246693
Amount: 9.617478
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 250452
Amount: 9.746171
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 13:08:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): STD6 240-177011/10 ICIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/20/2015 12:41

ANALYTE	RT	RESOLUTION (%)
Pyridine	3.62	100.0
2-Fluorophenol (Surr)	5.17	100.0
Phenol-d5 (Surr)	6.01	100.0
Phenol	6.03	100.0
Bis(2-chloroethyl)ether	6.12	100.0
2-Chlorophenol	6.19	100.0
1,3-Dichlorobenzene	6.34	100.0
1,4-Dichlorobenzene	6.40	100.0
Benzyl alcohol	6.48	100.0
1,2-Dichlorobenzene	6.54	100.0
2-Methylphenol	6.57	100.0
bis (2-chloroisopropyl) ether	6.60	100.0
3 & 4 Methylphenol	6.70	100.0
N-Nitrosodi-n-propylamine	6.71	100.0
Hexachloroethane	6.84	100.0
Nitrobenzene-d5 (Surr)	6.85	100.0
Nitrobenzene	6.87	100.0
Isophorone	7.07	100.0
2-Nitrophenol	7.15	100.0
2,4-Dimethylphenol	7.16	100.0
Benzoic acid	7.21	100.0
Bis(2-chloroethoxy)methane	7.24	100.0
2,4-Dichlorophenol	7.36	100.0
1,2,4-Trichlorobenzene	7.44	100.0
Naphthalene	7.51	100.0
4-Chloroaniline	7.53	100.0
Hexachlorobutadiene	7.62	100.0
4-Chloro-3-methylphenol	7.93	100.0
2-Methylnaphthalene	8.10	100.0
Hexachlorocyclopentadiene	8.25	100.0
2,4,6-Trichlorophenol	8.33	100.0
2,4,5-Trichlorophenol	8.37	100.0
2-Fluorobiphenyl (Surr)	8.40	100.0
2-Chloronaphthalene	8.52	100.0
2-Nitroaniline	8.58	100.0
Dimethyl phthalate	8.72	100.0
2,6-Dinitrotoluene	8.78	100.0
Acenaphthylene	8.88	100.0
3-Nitroaniline	8.93	100.0
2,4-Dinitrophenol	9.02	100.0
Acenaphthene	9.03	100.0
4-Nitrophenol	9.04	100.0
2,4-Dinitrotoluene	9.12	100.0
Dibenzofuran	9.18	100.0
Diethyl phthalate	9.31	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): STD6 240-177011/10 ICIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/20/2015 12:41

ANALYTE	RT	RESOLUTION (%)
4-Chlorophenyl phenyl ether	9.44	100.0
4-Nitroaniline	9.45	100.0
Fluorene	9.47	100.0
4,6-Dinitro-2-methylphenol	9.48	100.0
N-Nitrosodiphenylamine	9.54	100.0
2,4,6-Tribromophenol (Surr)	9.67	100.0
4-Bromophenyl phenyl ether	9.86	100.0
Hexachlorobenzene	9.96	100.0
Pentachlorophenol	10.10	100.0
Phenanthrene	10.30	100.0
Anthracene	10.34	100.0
Carbazole	10.46	100.0
Di-n-butyl phthalate	10.70	100.0
Fluoranthene	11.32	100.0
Pyrene	11.52	100.0
Terphenyl-d14 (Surr)	11.60	100.0
Butyl benzyl phthalate	11.98	100.0
Bis(2-ethylhexyl) phthalate	12.47	100.0
3,3'-Dichlorobenzidine	12.50	100.0
Benzo[a]anthracene	12.57	100.0
Chrysene	12.61	100.0
Di-n-octyl phthalate	13.13	100.0
Benzo[b]fluoranthene	13.81	29.20
Benzo[k]fluoranthene	13.84	100.0
Benzo[a]pyrene	14.28	100.0
Indeno[1,2,3-cd]pyrene	16.32	100.0
Dibenz(a,h)anthracene	16.32	100.0

Report Date: 21-Apr-2015 07:01:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Resolution Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D				
Injection Date:	20-Apr-2015 12:41:30	Instrument ID:	A4HP9		
Lims ID:	std6 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

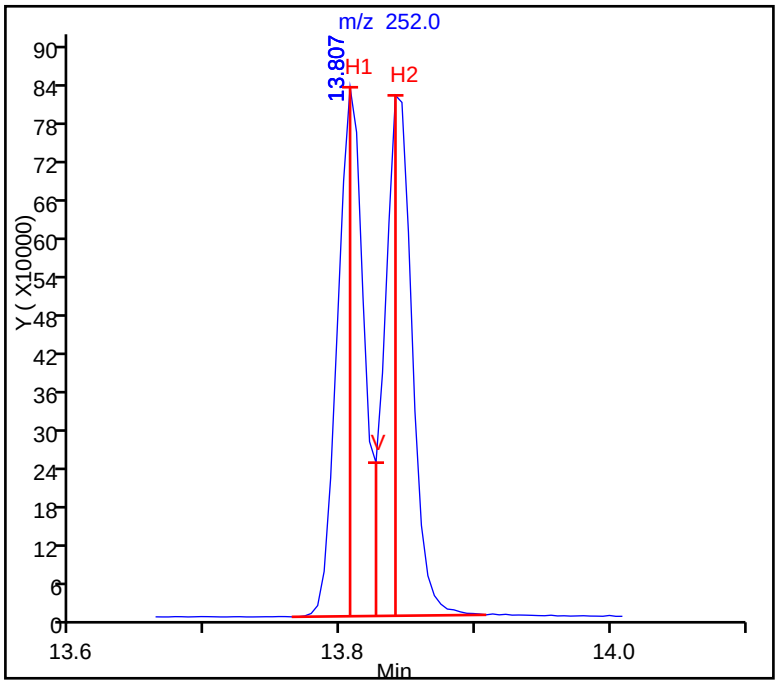
182 Benzo[b]fluoranthene - 183 Benzo[k]fluoranthene

SW-846 Method

Version C: %R = (V / (H1 + H2)) * 100
Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 240653
H1(182 Benzo[b]fluoranthen) = 830319
H2(183 Benzo[k]fluoranthen) = 816852

Version D: %R = 29.2 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): CCV 240-177779/2 Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/24/2015 08:09

ANALYTE	RT	RESOLUTION (%)
Pyridine	3.47	100.0
2-Fluorophenol (Surr)	5.10	100.0
Phenol-d5 (Surr)	5.96	100.0
Phenol	5.98	100.0
Bis(2-chloroethyl)ether	6.06	100.0
2-Chlorophenol	6.14	100.0
1,3-Dichlorobenzene	6.28	100.0
1,4-Dichlorobenzene	6.34	100.0
Benzyl alcohol	6.43	100.0
1,2-Dichlorobenzene	6.49	100.0
2-Methylphenol	6.52	100.0
bis (2-chloroisopropyl) ether	6.55	100.0
3 & 4 Methylphenol	6.65	100.0
N-Nitrosodi-n-propylamine	6.66	100.0
Hexachloroethane	6.79	100.0
Nitrobenzene-d5 (Surr)	6.80	100.0
Nitrobenzene	6.82	100.0
Isophorone	7.03	100.0
2-Nitrophenol	7.10	100.0
2,4-Dimethylphenol	7.11	100.0
Benzoic acid	7.17	100.0
Bis(2-chloroethoxy)methane	7.19	100.0
2,4-Dichlorophenol	7.31	100.0
1,2,4-Trichlorobenzene	7.39	100.0
Naphthalene	7.47	100.0
4-Chloroaniline	7.49	100.0
Hexachlorobutadiene	7.57	100.0
4-Chloro-3-methylphenol	7.88	100.0
2-Methylnaphthalene	8.05	100.0
Hexachlorocyclopentadiene	8.20	100.0
2,4,6-Trichlorophenol	8.29	100.0
2,4,5-Trichlorophenol	8.32	100.0
2-Fluorobiphenyl (Surr)	8.35	100.0
2-Chloronaphthalene	8.47	100.0
2-Nitroaniline	8.54	100.0
Dimethyl phthalate	8.67	100.0
2,6-Dinitrotoluene	8.73	100.0
Acenaphthylene	8.83	100.0
3-Nitroaniline	8.88	100.0
2,4-Dinitrophenol	8.97	100.0
Acenaphthene	8.98	100.0
4-Nitrophenol	8.99	100.0
2,4-Dinitrotoluene	9.07	100.0
Dibenzofuran	9.13	100.0
Diethyl phthalate	9.26	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): CCV 240-177779/2 Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/24/2015 08:09

ANALYTE	RT	RESOLUTION (%)
4-Chlorophenyl phenyl ether	9.39	100.0
4-Nitroaniline	9.40	100.0
Fluorene	9.42	100.0
4,6-Dinitro-2-methylphenol	9.43	100.0
N-Nitrosodiphenylamine	9.49	100.0
2,4,6-Tribromophenol (Surr)	9.62	100.0
4-Bromophenyl phenyl ether	9.81	100.0
Hexachlorobenzene	9.90	100.0
Pentachlorophenol	10.05	100.0
Phenanthrene	10.24	100.0
Anthracene	10.29	100.0
Carbazole	10.40	100.0
Di-n-butyl phthalate	10.64	100.0
Fluoranthene	11.26	100.0
Pyrene	11.46	100.0
Terphenyl-d14 (Surr)	11.55	100.0
Butyl benzyl phthalate	11.93	100.0
Bis(2-ethylhexyl) phthalate	12.41	100.0
3,3'-Dichlorobenzidine	12.44	100.0
Benzo[a]anthracene	12.50	100.0
Chrysene	12.54	100.0
Di-n-octyl phthalate	13.06	100.0
Benzo[b]fluoranthene	13.71	29.60
Benzo[k]fluoranthene	13.75	100.0
Benzo[a]pyrene	14.18	100.0
Indeno[1,2,3-cd]pyrene	16.15	100.0
Dibenz(a,h)anthracene	16.16	100.0

Resolution Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424002.D				
Injection Date:	24-Apr-2015 08:09:30	Instrument ID:	A4HP9		
Lims ID:	ccv lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

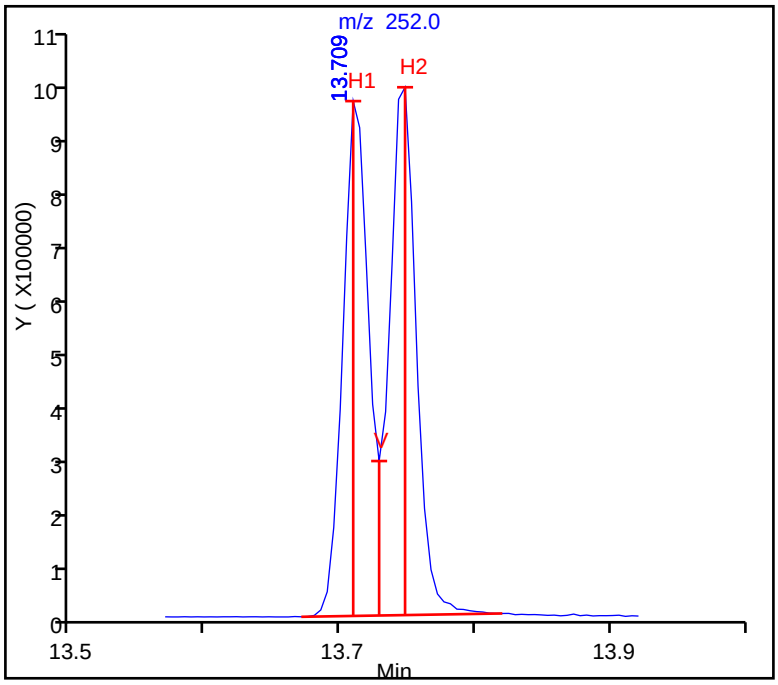
182 Benzo[b]fluoranthene - 183 Benzo[k]fluoranthene

SW-846 Method

Version C: %R = (V / (H1 + H2)) * 100
Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 270457
H1(182 Benzo[b]fluoranthen) = 901417
H2(183 Benzo[k]fluoranthen) = 924169

Version D: %R = 29.6 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-177011/11 Calibration Date: 04/20/2015 13:07

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50420011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8489	0.8578	0.0500	10.1	10.0	1.0	20.0
N-Nitrosodimethylamine	Ave	1.417	1.321	0.0500	9.32	10.0	-6.8	20.0
Pyridine	Ave	2.280	2.364	0.0500	10.4	10.0	3.7	20.0
Benzaldehyde	Ave	1.670	1.532	0.0500	18.3	20.0	-8.3	20.0
Phenol	Ave	2.388	2.223	0.0500	9.31	10.0	-6.9	20.0
Aniline	Ave	2.967	2.690	0.0500	9.07	10.0	-9.3	20.0
Bis(2-chloroethyl)ether	Ave	2.001	1.884	0.0500	9.41	10.0	-5.9	20.0
2-Chlorophenol	Ave	1.398	1.300	0.0500	9.30	10.0	-7.0	20.0
1,3-Dichlorobenzene	Ave	1.512	1.435	0.0500	9.49	10.0	-5.1	20.0
1,4-Dichlorobenzene	Ave	1.533	1.464	0.0500	9.54	10.0	-4.6	20.0
Benzyl alcohol	Ave	1.126	1.069	0.0500	9.49	10.0	-5.1	20.0
1,2-Dichlorobenzene	Ave	1.431	1.359	0.0500	9.50	10.0	-5.0	20.0
2-Methylphenol	Ave	1.554	1.531	0.0500	9.85	10.0	-1.5	20.0
bis (2-chloroisopropyl) ether	Ave	1.639	1.502	0.0500	9.16	10.0	-8.4	20.0
Indene	Ave	2.818	2.583	0.0500	18.3	20.0	-8.3	20.0
3 & 4 Methylphenol	Ave	1.645	1.567	0.0500	9.53	10.0	-4.7	20.0
N-Nitrosodi-n-propylamine	Ave	1.720	1.631	0.0500	9.48	10.0	-5.2	20.0
Acetophenone	Ave	2.383	2.310	0.0500	9.69	10.0	-3.1	20.0
Hexachloroethane	Ave	0.7281	0.7105	0.0500	9.76	10.0	-2.4	20.0
Nitrobenzene	Ave	0.6722	0.5544	0.0500	8.25	10.0	-17.5	20.0
Isophorone	Ave	1.136	1.206	0.0500	10.6	10.0	6.2	20.0
2-Nitrophenol	Ave	0.1857	0.1868	0.0500	10.1	10.0	0.6	20.0
2,4-Dimethylphenol	Ave	0.4926	0.4963	0.0500	10.1	10.0	0.7	20.0
Benzoic acid	Lin1		0.2249	0.0500	20.0	20.0	0.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.5716	0.5857	0.0500	10.2	10.0	2.5	20.0
2,4-Dichlorophenol	Ave	0.2968	0.2871	0.0500	9.67	10.0	-3.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3272	0.3148	0.0500	9.62	10.0	-3.8	20.0
Naphthalene	Ave	1.069	1.031	0.0500	9.64	10.0	-3.6	20.0
4-Chloroaniline	Ave	0.4667	0.4340	0.0500	9.30	10.0	-7.0	20.0
2,6-Dichlorophenol	Ave	0.2918	0.2751	0.0500	9.43	10.0	-5.7	20.0
Hexachlorobutadiene	Ave	0.2201	0.1995	0.0500	9.06	10.0	-9.4	20.0
Caprolactam	Ave	0.1252	0.1048	0.0500	16.7	20.0	-16.3	20.0
4-Chloro-3-methylphenol	Ave	0.4176	0.3981	0.0500	9.53	10.0	-4.7	20.0
2-Methylnaphthalene	Ave	0.7019	0.6299	0.0500	8.97	10.0	-10.3	20.0
Hexachlorocyclopentadiene	Ave	0.3739	0.3346	0.0500	8.95	10.0	-10.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5765	0.4963	0.0500	8.61	10.0	-13.9	20.0
2,4,6-Trichlorophenol	Ave	0.3845	0.3590	0.0500	9.34	10.0	-6.6	20.0
2,4,5-Trichlorophenol	Ave	0.4014	0.3641	0.0500	9.07	10.0	-9.3	20.0
1,1'-Biphenyl	Ave	1.404	1.186	0.0500	8.45	10.0	-15.5	20.0
2-Chloronaphthalene	Ave	1.110	0.9459	0.0500	8.52	10.0	-14.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-177011/11 Calibration Date: 04/20/2015 13:07

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50420011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Nitroaniline	Ave	0.5629	0.4955	0.0500	8.80	10.0	-12.0	20.0
Dimethyl phthalate	Ave	1.248	1.102	0.0500	8.83	10.0	-11.7	20.0
1,3-Dinitrobenzene	Ave	0.2002	0.1844	0.0500	9.21	10.0	-7.9	20.0
2,6-Dinitrotoluene	Ave	0.2924	0.2678	0.0500	9.16	10.0	-8.4	20.0
Acenaphthylene	Ave	1.715	1.631	0.0500	9.51	10.0	-4.9	20.0
3-Nitroaniline	Ave	0.2915	0.2895	0.0500	9.93	10.0	-0.7	20.0
2,4-Dinitrophenol	Lin		0.1698	0.0500	17.6	20.0	-12.0	20.0
Acenaphthene	Ave	1.116	1.047	0.0500	9.39	10.0	-6.1	20.0
4-Nitrophenol	Ave	0.2767	0.2630	0.0500	19.0	20.0	-4.9	20.0
2,4-Dinitrotoluene	Ave	0.3819	0.3699	0.0500	9.69	10.0	-3.1	20.0
Dibenzofuran	Ave	1.519	1.437	0.0500	9.46	10.0	-5.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3232	0.3011	0.0500	9.32	10.0	-6.8	20.0
Diethyl phthalate	Ave	1.260	1.129	0.0500	8.96	10.0	-10.4	20.0
4-Chlorophenyl phenyl ether	Ave	0.6472	0.6091	0.0500	9.41	10.0	-5.9	20.0
4-Nitroaniline	Ave	0.2823	0.2786	0.0500	9.87	10.0	-1.3	20.0
Fluorene	Ave	1.275	1.222	0.0500	9.59	10.0	-4.1	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1524	0.0500	21.3	20.0	6.3	20.0
N-Nitrosodiphenylamine	Ave	0.5377	0.5845	0.0500	21.7	20.0	8.7	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118	1.468	0.0500	13.1	10.0	31.3*	20.0
4-Bromophenyl phenyl ether	Ave	0.2049	0.2350	0.0500	11.5	10.0	14.7	20.0
Hexachlorobenzene	Ave	0.2018	0.2170	0.0500	10.8	10.0	7.6	20.0
Atrazine	Ave	0.2061	0.2252	0.0500	21.9	20.0	9.3	20.0
Pentachlorophenol	Lin1		0.1516	0.0500	21.2	20.0	6.1	20.0
Phenanthrene	Ave	1.050	0.9778	0.0500	9.31	10.0	-6.9	20.0
Anthracene	Ave	1.050	1.019	0.0500	9.70	10.0	-3.0	20.0
Carbazole	Ave	0.9379	0.9371	0.0500	9.99	10.0	-0.0	20.0
Di-n-butyl phthalate	Ave	1.175	1.240	0.0500	10.6	10.0	5.5	20.0
Fluoranthene	Ave	1.212	1.226	0.0500	10.1	10.0	1.1	20.0
Benzidine	Ave	0.5801	0.5521	0.0500	19.0	20.0	-4.8	20.0
Pyrene	Ave	1.096	1.015	0.0500	9.26	10.0	-7.4	20.0
Butyl benzyl phthalate	Ave	0.5093	0.4981	0.0500	9.78	10.0	-2.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6761	0.6498	0.0500	9.61	10.0	-3.9	20.0
3,3'-Dichlorobenzidine	Ave	0.3645	0.3542	0.0500	19.4	20.0	-2.8	20.0
Benzo[a]anthracene	Ave	1.124	1.088	0.0500	9.68	10.0	-3.2	20.0
Chrysene	Ave	1.027	1.029	0.0500	10.0	10.0	0.2	20.0
Di-n-octyl phthalate	Ave	1.408	1.401	0.0500	9.95	10.0	-0.5	20.0
Benzo[b]fluoranthene	Ave	1.205	1.157	0.0500	9.60	10.0	-4.0	20.0
Benzo[k]fluoranthene	Ave	1.214	1.195	0.0500	9.84	10.0	-1.6	20.0
Benzo[a]pyrene	Ave	1.151	1.110	0.0500	9.64	10.0	-3.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.165	1.083	0.0500	9.29	10.0	-7.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-177011/11 Calibration Date: 04/20/2015 13:07

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50420011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	0.9613	0.9111	0.0500	9.48	10.0	-5.2	20.0
Benzo[g,h,i]perylene	Ave	0.9662	0.9182	0.0500	9.50	10.0	-5.0	20.0
2-Fluorophenol (Surr)	Ave	1.472	1.578	0.0500	10.7	10.0	7.1	20.0
Phenol-d5 (Surr)	Ave	2.203	2.264	0.0500	10.3	10.0	2.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.7281	0.6498	0.0500	8.92	10.0	-10.8	20.0
2-Fluorobiphenyl (Surr)	Ave	1.345	1.245	0.0500	9.25	10.0	-7.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1481	0.1424	0.0500	9.61	10.0	-3.9	20.0
Terphenyl-d14 (Surr)	Ave	0.8139	0.8051	0.0500	9.89	10.0	-1.1	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420011.D
Lims ID: icv lst1
Client ID:
Sample Type: ICV
Inject. Date: 20-Apr-2015 13:07:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-011
Misc. Info.: ICV LST1ICV LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist:

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:11 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 13:39:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.378	6.378	0.000	84	139492	4.00	4.00	
* 2 Naphthalene-d8	136	7.494	7.494	0.000	97	581350	4.00	4.00	
* 3 Acenaphthene-d10	164	8.999	8.999	0.000	77	360913	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	94	530764	4.00	4.00	
* 5 Chrysene-d12	240	12.577	12.577	0.000	80	647642	4.00	4.00	
* 6 Perylene-d12	264	14.361	14.361	0.000	95	536696	4.00	4.00	
$ 7 2-Fluorophenol	112	5.162	5.162	0.000	94	550154	10.0	10.7	
$ 8 Phenol-d5	99	6.013	6.013	0.000	80	789504	10.0	10.3	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	83	944341	10.0	8.92	
$ 10 2-Fluorobiphenyl (Surr)	172	8.398	8.398	0.000	98	1122925	10.0	9.25	
$ 11 2,4,6-Tribromophenol	330	9.672	9.672	0.000	82	128492	10.0	9.61	
$ 12 Terphenyl-d14	244	11.601	11.601	0.000	97	1303468	10.0	9.89	
25 1,4-Dioxane	88	3.084	3.084	0.000	91	299141	10.0	10.1	M
26 N-Nitrosodimethylamine	74	3.565	3.565	0.000	84	460619	10.0	9.32	
27 Pyridine	79	3.618	3.618	0.000	89	824453	10.0	10.4	
41 Benzaldehyde	77	5.984	5.984	0.000	83	1068192	20.0	18.3	
43 Phenol	94	6.027	6.027	0.000	88	775381	10.0	9.31	
44 Aniline	93	6.075	6.075	0.000	94	938162	10.0	9.07	
69 Bis(2-chloroethyl)ether	93	6.119	6.119	0.000	87	657044	10.0	9.41	
46 2-Chlorophenol	128	6.195	6.195	0.000	89	453504	10.0	9.30	
243 n-Decane	57	6.224	6.224	0.000	96	589881	NC	NC	
47 1,3-Dichlorobenzene	146	6.335	6.335	0.000	79	500467	10.0	9.49	
48 1,4-Dichlorobenzene	146	6.397	6.397	0.000	74	510406	10.0	9.54	
49 Benzyl alcohol	108	6.479	6.479	0.000	84	372807	10.0	9.49	
50 1,2-Dichlorobenzene	146	6.537	6.537	0.000	78	473801	10.0	9.50	
51 2-Methylphenol	108	6.566	6.566	0.000	78	533885	10.0	9.85	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.599	0.000	98	523646	10.0	9.16	
52 Indene	115	6.614	6.614	0.000	77	1801296	20.0	18.3	
21 3 & 4 Methylphenol	108	6.691	6.691	0.000	95	546596	10.0	9.53	
57 N-Nitrosodi-n-propylamine	70	6.710	6.710	0.000	97	568626	10.0	9.48	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.715	6.715	0.000	80	805426	10.0	9.69	
61 Hexachloroethane	117	6.845	6.845	0.000	87	247761	10.0	9.76	
62 Nitrobenzene	77	6.873	6.873	0.000	75	805701	10.0	8.25	
64 Isophorone	82	7.075	7.075	0.000	94	1753225	10.0	10.6	
66 2-Nitrophenol	139	7.152	7.152	0.000	80	271425	10.0	10.1	
65 2,4-Dimethylphenol	107	7.157	7.157	0.000	95	721280	10.0	10.1	
71 Benzoic acid	122	7.220	7.220	0.000	71	653650	20.0	20.0	
70 Bis(2-chloroethoxy)methane	93	7.234	7.234	0.000	91	851258	10.0	10.2	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	87	417269	10.0	9.67	
74 1,2,4-Trichlorobenzene	180	7.441	7.441	0.000	83	457522	10.0	9.62	
75 Naphthalene	128	7.513	7.513	0.000	97	1497955	10.0	9.64	
76 4-Chloroaniline	127	7.532	7.532	0.000	53	630688	10.0	9.30	
77 2,6-Dichlorophenol	162	7.552	7.552	0.000	60	399745	10.0	9.43	
79 Hexachlorobutadiene	225	7.619	7.619	0.000	88	289877	10.0	9.06	
84 Caprolactam	113	7.816	7.816	0.000	80	304531	20.0	16.7	
86 4-Chloro-3-methylphenol	107	7.927	7.927	0.000	78	578572	10.0	9.53	
87 2-Methylnaphthalene	142	8.100	8.100	0.000	82	915474	10.0	8.97	
88 1-Methylnaphthalene	142	8.191	8.191	0.000	78	837358	10.0	9.68	
89 Hexachlorocyclopentadiene	237	8.244	8.244	0.000	91	301878	10.0	8.95	
91 1,2,4,5-Tetrachlorobenzene	216	8.249	8.249	0.000	92	447812	10.0	8.61	
92 2,4,6-Trichlorophenol	196	8.331	8.331	0.000	86	323904	10.0	9.34	
93 2,4,5-Trichlorophenol	196	8.364	8.364	0.000	88	328488	10.0	9.07	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	97	1070317	10.0	8.45	
100 2-Chloronaphthalene	162	8.523	8.523	0.000	98	853448	10.0	8.52	
102 2-Nitroaniline	65	8.581	8.581	0.000	70	447056	10.0	8.80	
105 Dimethyl phthalate	163	8.715	8.715	0.000	92	994200	10.0	8.83	
106 1,3-Dinitrobenzene	168	8.749	8.749	0.000	75	166417	10.0	9.21	
107 2,6-Dinitrotoluene	165	8.773	8.773	0.000	57	241656	10.0	9.16	
109 Acenaphthylene	152	8.884	8.884	0.000	86	1471296	10.0	9.51	
110 3-Nitroaniline	138	8.927	8.927	0.000	79	261167	10.0	9.93	
111 2,4-Dinitrophenol	184	9.013	9.013	0.000	98	306408	20.0	17.6	
112 Acenaphthene	153	9.028	9.028	0.000	82	945081	10.0	9.39	
113 4-Nitrophenol	109	9.037	9.037	0.000	41	474644	20.0	19.0	
114 2,4-Dinitrotoluene	165	9.124	9.124	0.000	79	333746	10.0	9.69	
116 Dibenzofuran	168	9.172	9.172	0.000	81	1296550	10.0	9.46	
119 2,3,4,6-Tetrachlorophenol	232	9.268	9.268	0.000	76	271709	10.0	9.32	
121 Diethyl phthalate	149	9.312	9.312	0.000	94	1018332	10.0	8.96	
247 Hexadecane	57	9.316	9.316	0.000	97	862851	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.441	0.000	92	549537	10.0	9.41	
125 4-Nitroaniline	138	9.451	9.451	0.000	75	251369	10.0	9.87	
126 Fluorene	166	9.465	9.465	0.000	100	1102836	10.0	9.59	
128 4,6-Dinitro-2-methylphenol	198	9.480	9.480	0.000	94	404332	20.0	21.3	
131 N-Nitrosodiphenylamine	169	9.533	9.533	0.000	98	1551022	20.0	21.7	
132 1,2-Diphenylhydrazine	77	9.576	9.576	0.000	99	1948483	10.0	13.1	
133 Azobenzene	77	9.576	9.576	0.000	94	1947497	10.0	13.1	
139 4-Bromophenyl phenyl ether	248	9.860	9.860	0.000	71	311764	10.0	11.5	
141 Hexachlorobenzene	284	9.951	9.951	0.000	81	287962	10.0	10.8	
142 Atrazine	200	9.961	9.961	0.000	86	597715	20.0	21.9	
244 n-Octadecane	57	10.095	10.095	0.000	89	773539	NC	NC	
143 Pentachlorophenol	266	10.105	10.105	0.000	82	402198	20.0	21.2	
148 Phenanthrene	178	10.293	10.293	0.000	98	1297423	10.0	9.31	
149 Anthracene	178	10.341	10.341	0.000	87	1351675	10.0	9.70	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.451	10.451	0.000	80	1243382	10.0	10.0	
154 Di-n-butyl phthalate	149	10.692	10.692	0.000	100	1645197	10.0	10.6	
159 Fluoranthene	202	11.317	11.317	0.000	98	1627336	10.0	10.1	
160 Benzidine	184	11.384	11.384	0.000	98	1787699	20.0	19.0	
161 Pyrene	202	11.514	11.514	0.000	94	1643228	10.0	9.26	
168 Butyl benzyl phthalate	149	11.976	11.976	0.000	89	806428	10.0	9.78	
173 Bis(2-ethylhexyl) phthalat	149	12.461	12.461	0.000	93	1052013	10.0	9.61	
175 3,3'-Dichlorobenzidine	252	12.495	12.495	0.000	54	1146798	20.0	19.4	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	98	1761217	10.0	9.68	
178 Chrysene	228	12.601	12.601	0.000	95	1666379	10.0	10.0	
180 Di-n-octyl phthalate	149	13.130	13.130	0.000	99	1880382	10.0	9.95	
182 Benzo[b]fluoranthene	252	13.803	13.803	0.000	85	1551825	10.0	9.60	
183 Benzo[k]fluoranthene	252	13.841	13.841	0.000	85	1603295	10.0	9.84	
184 Benzo[a]pyrene	252	14.279	14.279	0.000	73	1489139	10.0	9.64	
188 Indeno[1,2,3-cd]pyrene	276	16.313	16.313	0.000	75	1452884	10.0	9.29	
189 Dibenz(a,h)anthracene	278	16.318	16.318	0.000	75	1222477	10.0	9.48	
190 Benzo[g,h,i]perylene	276	16.914	16.914	0.000	93	1231942	10.0	9.50	
S 191 Methyl Phenols,Total	100				0			19.4	
S 245 Total Cresols	100				0			19.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 SS W_00004 Amount Added: 1.00 Units: mL

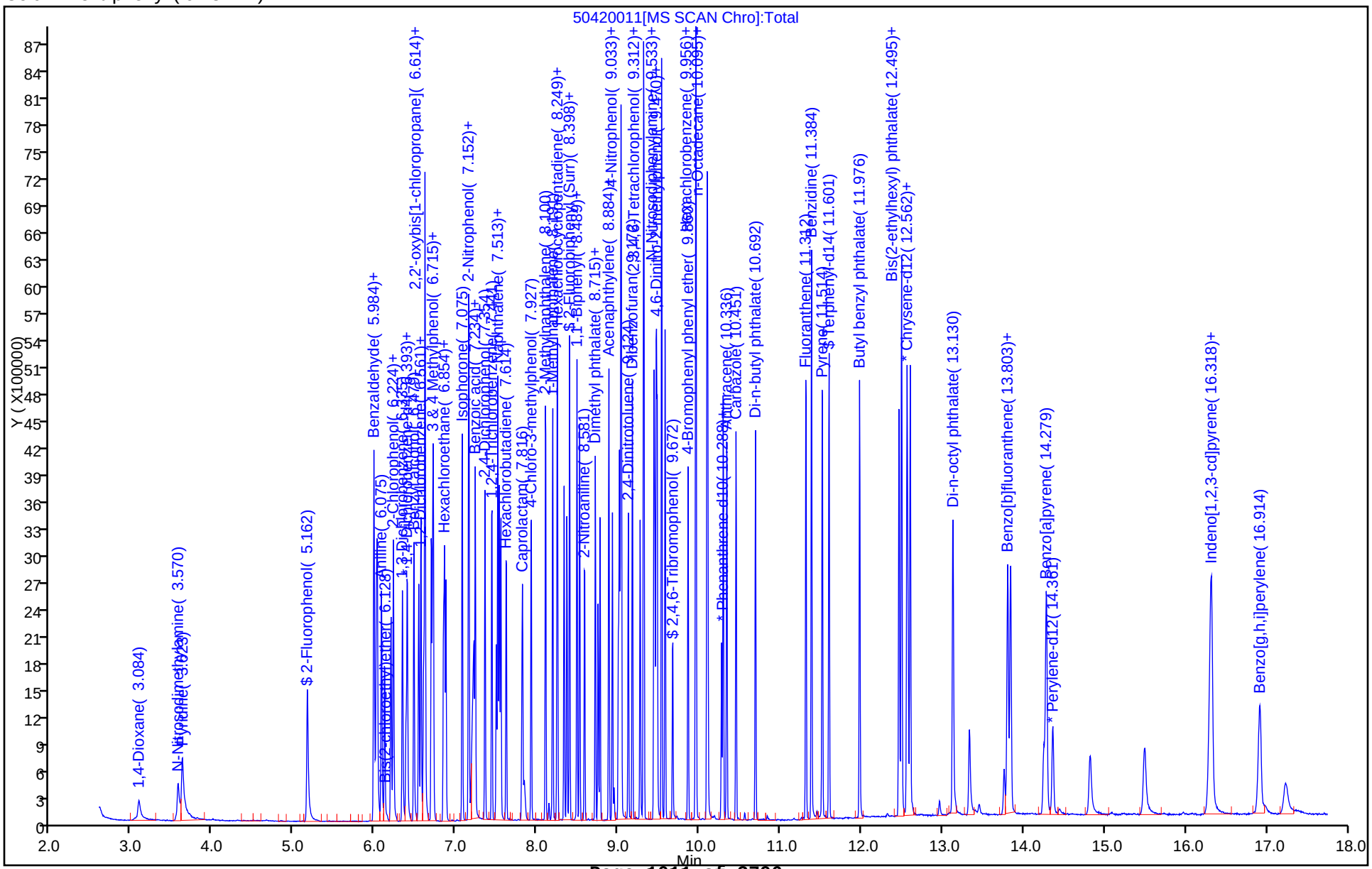
Report Date: 21-Apr-2015 07:01:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420011.D

Injection Date:	20-Apr-2015 13:07:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	icv lst1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

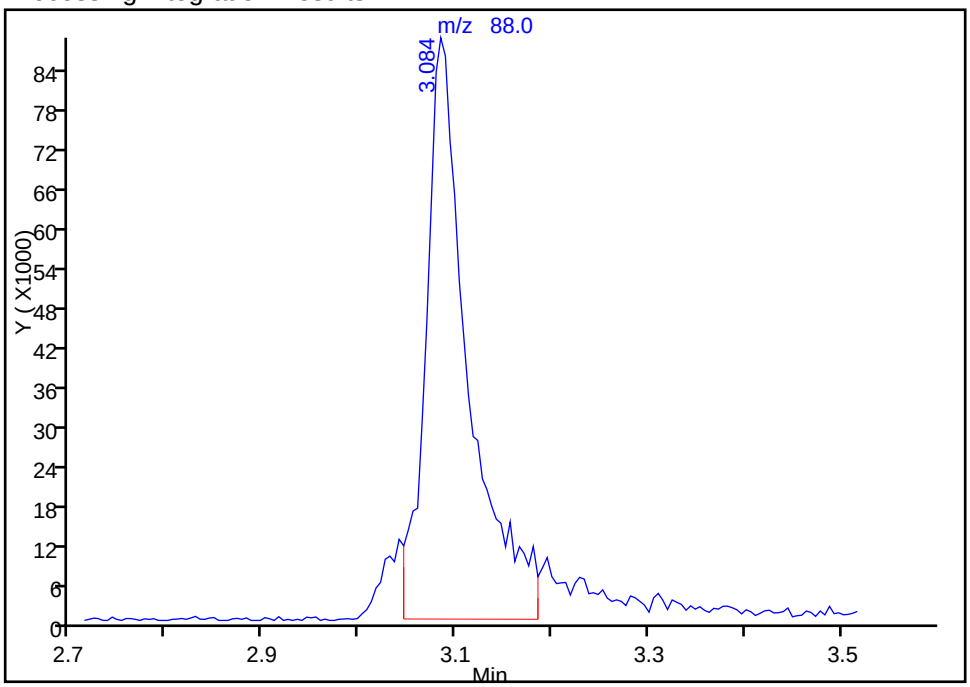
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420011.D				
Injection Date:	20-Apr-2015 13:07:30	Instrument ID:	A4HP9		
Lims ID:	icv lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

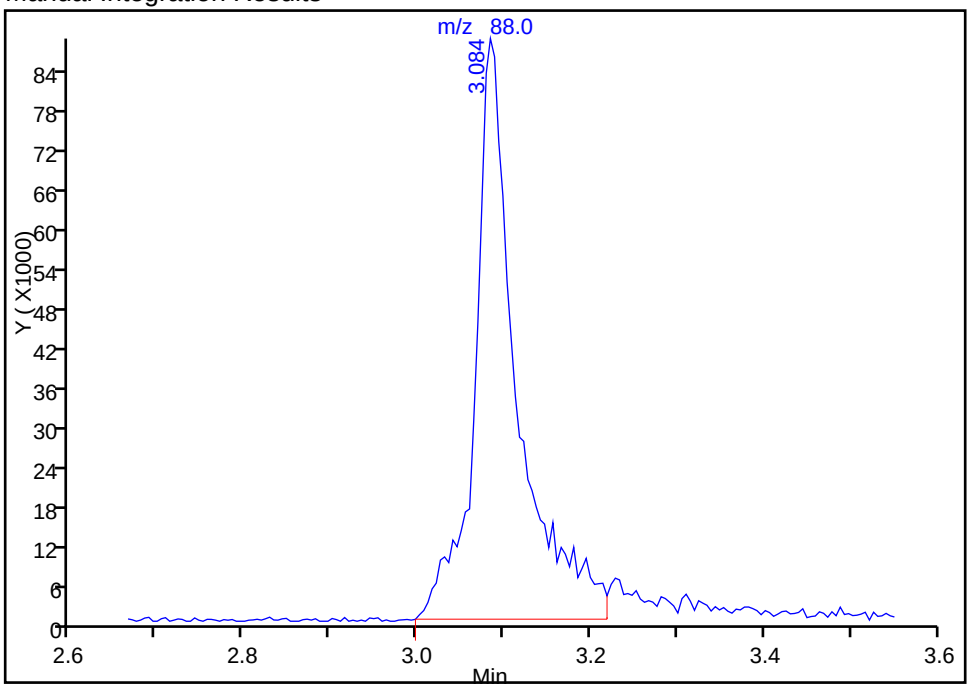
Processing Integration Results

RT: 3.08
Area: 272311
Amount: 9.198094
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 299141
Amount: 10.104355
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 13:39:47
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177779/2 Calibration Date: 04/24/2015 08:09

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8489	0.7991	0.0500	9.41	10.0	-5.9	20.0
N-Nitrosodimethylamine	Ave	1.417	1.323	0.0500	9.34	10.0	-6.6	20.0
Pyridine	Ave	2.280	2.271	0.0500	9.96	10.0	-0.4	20.0
Benzaldehyde	Ave	1.670	1.648	0.0500	19.7	20.0	-1.3	20.0
Phenol	Ave	2.388	2.336	0.0500	9.78	10.0	-2.2	20.0
Aniline	Ave	2.967	2.904	0.0500	9.79	10.0	-2.1	20.0
Bis(2-chloroethyl)ether	Ave	2.001	1.967	0.0500	9.83	10.0	-1.7	20.0
2-Chlorophenol	Ave	1.398	1.380	0.0500	9.87	10.0	-1.3	20.0
1,3-Dichlorobenzene	Ave	1.512	1.522	0.0500	10.1	10.0	0.7	20.0
1,4-Dichlorobenzene	Ave	1.533	1.517	0.0500	9.89	10.0	-1.1	20.0
Benzyl alcohol	Ave	1.126	1.069	0.0500	9.49	10.0	-5.1	20.0
1,2-Dichlorobenzene	Ave	1.431	1.461	0.0500	10.2	10.0	2.1	20.0
2-Methylphenol	Ave	1.554	1.543	0.0500	9.93	10.0	-0.7	20.0
bis (2-chloroisopropyl) ether	Ave	1.639	1.656	0.0500	10.1	10.0	1.0	20.0
Indene	Ave	2.818	2.775	0.0500	19.7	20.0	-1.5	20.0
3 & 4 Methylphenol	Ave	1.645	1.633	0.0500	9.93	10.0	-0.7	20.0
N-Nitrosodi-n-propylamine	Ave	1.720	1.664	0.0500	9.67	10.0	-3.3	20.0
Acetophenone	Ave	2.383	2.398	0.0500	10.1	10.0	0.6	20.0
Hexachloroethane	Ave	0.7281	0.7414	0.0500	10.2	10.0	1.8	20.0
Nitrobenzene	Ave	0.6722	0.6611	0.0500	9.83	10.0	-1.7	20.0
Isophorone	Ave	1.136	1.115	0.0500	9.81	10.0	-1.9	20.0
2-Nitrophenol	Ave	0.1857	0.1857	0.0500	10.0	10.0	-0.0	20.0
2,4-Dimethylphenol	Ave	0.4926	0.4969	0.0500	10.1	10.0	0.9	20.0
Benzoic acid	Lin1		0.2163	0.0500	19.3	20.0	-3.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.5716	0.5815	0.0500	10.2	10.0	1.7	20.0
2,4-Dichlorophenol	Ave	0.2968	0.2975	0.0500	10.0	10.0	0.2	20.0
1,2,4-Trichlorobenzene	Ave	0.3272	0.3227	0.0500	9.86	10.0	-1.4	20.0
Naphthalene	Ave	1.069	1.035	0.0500	9.68	10.0	-3.2	20.0
4-Chloroaniline	Ave	0.4667	0.4660	0.0500	9.98	10.0	-0.2	20.0
2,6-Dichlorophenol	Ave	0.2918	0.2912	0.0500	9.98	10.0	-0.2	20.0
Hexachlorobutadiene	Ave	0.2201	0.2271	0.0500	10.3	10.0	3.2	20.0
Caprolactam	Ave	0.1252	0.1233	0.0500	19.7	20.0	-1.5	20.0
4-Chloro-3-methylphenol	Ave	0.4176	0.4207	0.0500	10.1	10.0	0.8	20.0
2-Methylnaphthalene	Ave	0.7019	0.6575	0.0500	9.37	10.0	-6.3	20.0
Hexachlorocyclopentadiene	Ave	0.3739	0.4040	0.0500	10.8	10.0	8.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5765	0.5739	0.0500	9.96	10.0	-0.4	20.0
2,4,6-Trichlorophenol	Ave	0.3845	0.3839	0.0500	9.98	10.0	-0.2	20.0
2,4,5-Trichlorophenol	Ave	0.4014	0.4206	0.0500	10.5	10.0	4.8	20.0
1,1'-Biphenyl	Ave	1.404	1.348	0.0500	9.60	10.0	-4.0	20.0
2-Chloronaphthalene	Ave	1.110	1.088	0.0500	9.79	10.0	-2.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177779/2 Calibration Date: 04/24/2015 08:09

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Nitroaniline	Ave	0.5629	0.5819	0.0500	10.3	10.0	3.4	20.0
Dimethyl phthalate	Ave	1.248	1.286	0.0500	10.3	10.0	3.0	20.0
1,3-Dinitrobenzene	Ave	0.2002	0.2142	0.0500	10.7	10.0	7.0	20.0
2,6-Dinitrotoluene	Ave	0.2924	0.2943	0.0500	10.1	10.0	0.7	20.0
Acenaphthylene	Ave	1.715	1.698	0.0500	9.90	10.0	-1.0	20.0
3-Nitroaniline	Ave	0.2915	0.2978	0.0500	10.2	10.0	2.2	20.0
2,4-Dinitrophenol	Lin		0.1928	0.0500	19.7	20.0	-1.6	20.0
Acenaphthene	Ave	1.116	1.074	0.0500	9.62	10.0	-3.8	20.0
4-Nitrophenol	Ave	0.2767	0.2894	0.0500	20.9	20.0	4.6	20.0
2,4-Dinitrotoluene	Ave	0.3819	0.3840	0.0500	10.1	10.0	0.6	20.0
Dibenzofuran	Ave	1.519	1.506	0.0500	9.91	10.0	-0.9	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3232	0.3458	0.0500	10.7	10.0	7.0	20.0
Diethyl phthalate	Ave	1.260	1.208	0.0500	9.59	10.0	-4.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6472	0.6431	0.0500	9.94	10.0	-0.6	20.0
4-Nitroaniline	Ave	0.2823	0.3021	0.0500	10.7	10.0	7.0	20.0
Fluorene	Ave	1.275	1.258	0.0500	9.87	10.0	-1.3	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1541	0.0500	21.5	20.0	7.5	20.0
N-Nitrosodiphenylamine	Ave	0.5377	0.5944	0.0500	22.1	20.0	10.5	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118	1.280	0.0500	11.5	10.0	14.5	20.0
4-Bromophenyl phenyl ether	Ave	0.2049	0.2263	0.0500	11.0	10.0	10.4	20.0
Hexachlorobenzene	Ave	0.2018	0.2224	0.0500	11.0	10.0	10.2	20.0
Atrazine	Ave	0.2061	0.2262	0.0500	22.0	20.0	9.8	20.0
Pentachlorophenol	Lin1		0.1433	0.0500	20.1	20.0	0.4	20.0
Phenanthrene	Ave	1.050	1.019	0.0500	9.70	10.0	-3.0	20.0
Anthracene	Ave	1.050	1.049	0.0500	9.99	10.0	-0.1	20.0
Carbazole	Ave	0.9379	1.027	0.0500	10.9	10.0	9.5	20.0
Di-n-butyl phthalate	Ave	1.175	1.286	0.0500	11.0	10.0	9.5	20.0
Fluoranthene	Ave	1.212	1.289	0.0500	10.6	10.0	6.3	20.0
Benzidine	Ave	0.5801	0.6603	0.0500	22.8	20.0	13.8	20.0
Pyrene	Ave	1.096	1.062	0.0500	9.70	10.0	-3.0	20.0
Butyl benzyl phthalate	Ave	0.5093	0.4946	0.0500	9.71	10.0	-2.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6761	0.6560	0.0500	9.70	10.0	-3.0	20.0
3,3'-Dichlorobenzidine	Ave	0.3645	0.3760	0.0500	20.6	20.0	3.1	20.0
Benzo[a]anthracene	Ave	1.124	1.075	0.0500	9.56	10.0	-4.4	20.0
Chrysene	Ave	1.027	1.022	0.0500	9.95	10.0	-0.5	20.0
Di-n-octyl phthalate	Ave	1.408	1.399	0.0500	9.93	10.0	-0.7	20.0
Benzo[b]fluoranthene	Ave	1.205	1.160	0.0500	9.63	10.0	-3.7	20.0
Benzo[k]fluoranthene	Ave	1.214	1.238	0.0500	10.2	10.0	2.0	20.0
Benzo[a]pyrene	Ave	1.151	1.142	0.0500	9.92	10.0	-0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.165	1.102	0.0500	9.46	10.0	-5.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177779/2 Calibration Date: 04/24/2015 08:09

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	0.9613	0.9242	0.0500	9.61	10.0	-3.9	20.0
Benzo[g,h,i]perylene	Ave	0.9662	0.9033	0.0500	9.35	10.0	-6.5	20.0
2-Fluorophenol (Surr)	Ave	1.472	1.558	0.0500	10.6	10.0	5.8	20.0
Phenol-d5 (Surr)	Ave	2.203	2.116	0.0500	9.61	10.0	-3.9	20.0
Nitrobenzene-d5 (Surr)	Ave	0.7281	0.7188	0.0500	9.87	10.0	-1.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.345	1.312	0.0500	9.76	10.0	-2.4	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1481	0.1582	0.0500	10.7	10.0	6.8	20.0
Terphenyl-d14 (Surr)	Ave	0.8139	0.7929	0.0500	9.74	10.0	-2.6	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424002.D
Lims ID: ccv lst1
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Apr-2015 08:09:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-002
Misc. Info.: CCV LST1CCV LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:27 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 08:40:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.328	6.328	0.000	94	113534	4.00	4.00	
* 2 Naphthalene-d8	136	7.448	7.448	0.000	99	420822	4.00	4.00	
* 3 Acenaphthene-d10	164	8.953	8.953	0.000	93	253315	4.00	4.00	
* 4 Phenanthrene-d10	188	10.223	10.223	0.000	98	410655	4.00	4.00	
* 5 Chrysene-d12	240	12.512	12.512	0.000	97	518683	4.00	4.00	
* 6 Perylene-d12	264	14.253	14.253	0.000	99	425022	4.00	4.00	
$ 7 2-Fluorophenol	112	5.097	5.097	0.000	94	442321	10.0	10.6	
$ 8 Phenol-d5	99	5.962	5.962	0.000	94	600500	10.0	9.61	
$ 9 Nitrobenzene-d5	82	6.804	6.804	0.000	85	756218	10.0	9.87	
$ 10 2-Fluorobiphenyl (Surr)	172	8.352	8.352	0.000	99	830921	10.0	9.76	
$ 11 2,4,6-Tribromophenol	330	9.622	9.622	0.000	85	100168	10.0	10.7	
$ 12 Terphenyl-d14	244	11.545	11.545	0.000	99	1028142	10.0	9.74	
25 1,4-Dioxane	88	2.875	2.875	0.000	90	226816	10.0	9.41	
26 N-Nitrosodimethylamine	74	3.404	3.404	0.000	94	375644	10.0	9.34	
27 Pyridine	79	3.466	3.466	0.000	94	644620	10.0	9.96	
41 Benzaldehyde	77	5.928	5.928	0.000	90	935702	20.0	19.7	
43 Phenol	94	5.977	5.977	0.000	95	663123	10.0	9.78	
44 Aniline	93	6.025	6.025	0.000	94	824178	10.0	9.79	
69 Bis(2-chloroethyl)ether	93	6.063	6.063	0.000	96	558406	10.0	9.83	
46 2-Chlorophenol	128	6.140	6.140	0.000	89	391586	10.0	9.87	
243 n-Decane	57	6.174	6.174	0.000	98	526345	NC	NC	
47 1,3-Dichlorobenzene	146	6.284	6.284	0.000	89	431902	10.0	10.1	
48 1,4-Dichlorobenzene	146	6.342	6.342	0.000	83	430607	10.0	9.89	
49 Benzyl alcohol	108	6.429	6.429	0.000	85	303520	10.0	9.49	
50 1,2-Dichlorobenzene	146	6.486	6.486	0.000	87	414777	10.0	10.2	
51 2-Methylphenol	108	6.515	6.515	0.000	93	438049	10.0	9.93	
53 2,2'-oxybis[1-chloropropan	45	6.549	6.549	0.000	97	470009	10.0	10.1	
52 Indene	115	6.563	6.563	0.000	89	1575513	20.0	19.7	
21 3 & 4 Methylphenol	108	6.645	6.645	0.000	95	463613	10.0	9.93	
57 N-Nitrosodi-n-propylamine	70	6.659	6.659	0.000	97	472234	10.0	9.67	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.669	6.669	0.000	91	680523	10.0	10.1	
61 Hexachloroethane	117	6.794	6.794	0.000	94	210443	10.0	10.2	
62 Nitrobenzene	77	6.823	6.823	0.000	83	695510	10.0	9.83	
64 Isophorone	82	7.025	7.025	0.000	97	1172635	10.0	9.81	
66 2-Nitrophenol	139	7.102	7.102	0.000	81	195379	10.0	10.0	
65 2,4-Dimethylphenol	107	7.111	7.111	0.000	95	522727	10.0	10.1	
71 Benzoic acid	122	7.174	7.174	0.000	86	455019	20.0	19.3	
70 Bis(2-chloroethoxy)methane	93	7.188	7.188	0.000	98	611790	10.0	10.2	
73 2,4-Dichlorophenol	162	7.309	7.309	0.000	90	312994	10.0	10.0	
74 1,2,4-Trichlorobenzene	180	7.390	7.390	0.000	90	339535	10.0	9.86	
75 Naphthalene	128	7.467	7.467	0.000	96	1088778	10.0	9.68	
76 4-Chloroaniline	127	7.487	7.487	0.000	89	490224	10.0	9.98	
77 2,6-Dichlorophenol	162	7.501	7.501	0.000	88	306386	10.0	9.98	
79 Hexachlorobutadiene	225	7.568	7.568	0.000	95	238956	10.0	10.3	
84 Caprolactam	113	7.770	7.770	0.000	83	259367	20.0	19.7	
86 4-Chloro-3-methylphenol	107	7.881	7.881	0.000	88	442638	10.0	10.1	
87 2-Methylnaphthalene	142	8.054	8.054	0.000	88	691722	10.0	9.37	
88 1-Methylnaphthalene	142	8.141	8.141	0.000	90	620279	10.0	9.91	
89 Hexachlorocyclopentadiene	237	8.198	8.198	0.000	95	255854	10.0	10.8	
91 1,2,4,5-Tetrachlorobenzene	216	8.203	8.203	0.000	97	363458	10.0	9.96	
92 2,4,6-Trichlorophenol	196	8.285	8.285	0.000	93	243085	10.0	9.98	
93 2,4,5-Trichlorophenol	196	8.318	8.318	0.000	91	266352	10.0	10.5	
98 1,1'-Biphenyl	154	8.443	8.443	0.000	98	853502	10.0	9.60	
100 2-Chloronaphthalene	162	8.472	8.472	0.000	98	688803	10.0	9.79	
102 2-Nitroaniline	65	8.535	8.535	0.000	71	368537	10.0	10.3	
105 Dimethyl phthalate	163	8.670	8.670	0.000	94	814688	10.0	10.3	
106 1,3-Dinitrobenzene	168	8.703	8.703	0.000	79	135628	10.0	10.7	
107 2,6-Dinitrotoluene	165	8.727	8.727	0.000	79	186366	10.0	10.1	
109 Acenaphthylene	152	8.833	8.833	0.000	98	1075176	10.0	9.90	
110 3-Nitroaniline	138	8.881	8.881	0.000	85	188594	10.0	10.2	
111 2,4-Dinitrophenol	184	8.968	8.968	0.000	94	244214	20.0	19.7	
112 Acenaphthene	153	8.982	8.982	0.000	97	680012	10.0	9.62	
113 4-Nitrophenol	109	8.992	8.992	0.000	87	366547	20.0	20.9	
114 2,4-Dinitrotoluene	165	9.073	9.073	0.000	81	243180	10.0	10.1	
116 Dibenzofuran	168	9.126	9.126	0.000	94	953482	10.0	9.91	
119 2,3,4,6-Tetrachlorophenol	232	9.223	9.223	0.000	77	219016	10.0	10.7	
121 Diethyl phthalate	149	9.261	9.261	0.000	95	765060	10.0	9.59	
247 Hexadecane	57	9.266	9.266	0.000	91	601631	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.391	9.391	0.000	95	407265	10.0	9.94	
125 4-Nitroaniline	138	9.400	9.400	0.000	75	191292	10.0	10.7	
126 Fluorene	166	9.420	9.420	0.000	100	796371	10.0	9.87	
128 4,6-Dinitro-2-methylphenol	198	9.429	9.429	0.000	94	316358	20.0	21.5	
131 N-Nitrosodiphenylamine	169	9.487	9.487	0.000	98	1220450	20.0	22.1	
132 1,2-Diphenylhydrazine	77	9.530	9.530	0.000	98	1314548	10.0	11.5	
133 Azobenzene	77	9.530	9.530	0.000	95	1314918	10.0	11.5	
139 4-Bromophenyl phenyl ether	248	9.809	9.809	0.000	74	232280	10.0	11.0	
141 Hexachlorobenzene	284	9.901	9.901	0.000	91	228288	10.0	11.0	
142 Atrazine	200	9.910	9.910	0.000	90	464432	20.0	22.0	
244 n-Octadecane	57	10.045	10.045	0.000	97	597840	NC	NC	
143 Pentachlorophenol	266	10.054	10.054	0.000	89	294205	20.0	20.1	
148 Phenanthrene	178	10.242	10.242	0.000	98	1045912	10.0	9.70	
149 Anthracene	178	10.285	10.285	0.000	98	1076526	10.0	9.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.401	10.401	0.000	97	1054200	10.0	10.9	
154 Di-n-butyl phthalate	149	10.641	10.641	0.000	100	1320722	10.0	11.0	
159 Fluoranthene	202	11.261	11.261	0.000	99	1322882	10.0	10.6	
160 Benzidine	184	11.329	11.329	0.000	98	1712373	20.0	22.8	
161 Pyrene	202	11.463	11.463	0.000	96	1377418	10.0	9.70	
168 Butyl benzyl phthalate	149	11.925	11.925	0.000	93	641361	10.0	9.71	
173 Bis(2-ethylhexyl) phthalat	149	12.406	12.406	0.000	95	850676	10.0	9.70	
175 3,3'-Dichlorobenzidine	252	12.435	12.435	0.000	75	974999	20.0	20.6	
177 Benzo[a]anthracene	228	12.497	12.497	0.000	98	1393692	10.0	9.56	
178 Chrysene	228	12.536	12.536	0.000	96	1325215	10.0	9.95	
180 Di-n-octyl phthalate	149	13.055	13.055	0.000	100	1486073	10.0	9.93	
182 Benzo[b]fluoranthene	252	13.709	13.709	0.000	96	1232802	10.0	9.63	
183 Benzo[k]fluoranthene	252	13.748	13.748	0.000	98	1315137	10.0	10.2	
184 Benzo[a]pyrene	252	14.176	14.176	0.000	76	1213142	10.0	9.92	
188 Indeno[1,2,3-cd]pyrene	276	16.152	16.152	0.000	98	1171251	10.0	9.46	
189 Dibenz(a,h)anthracene	278	16.162	16.162	0.000	89	982060	10.0	9.61	
190 Benzo[g,h,i]perylene	276	16.739	16.739	0.000	98	959846	10.0	9.35	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLIST1 L6 W_00005 Amount Added: 1.00 Units: mL

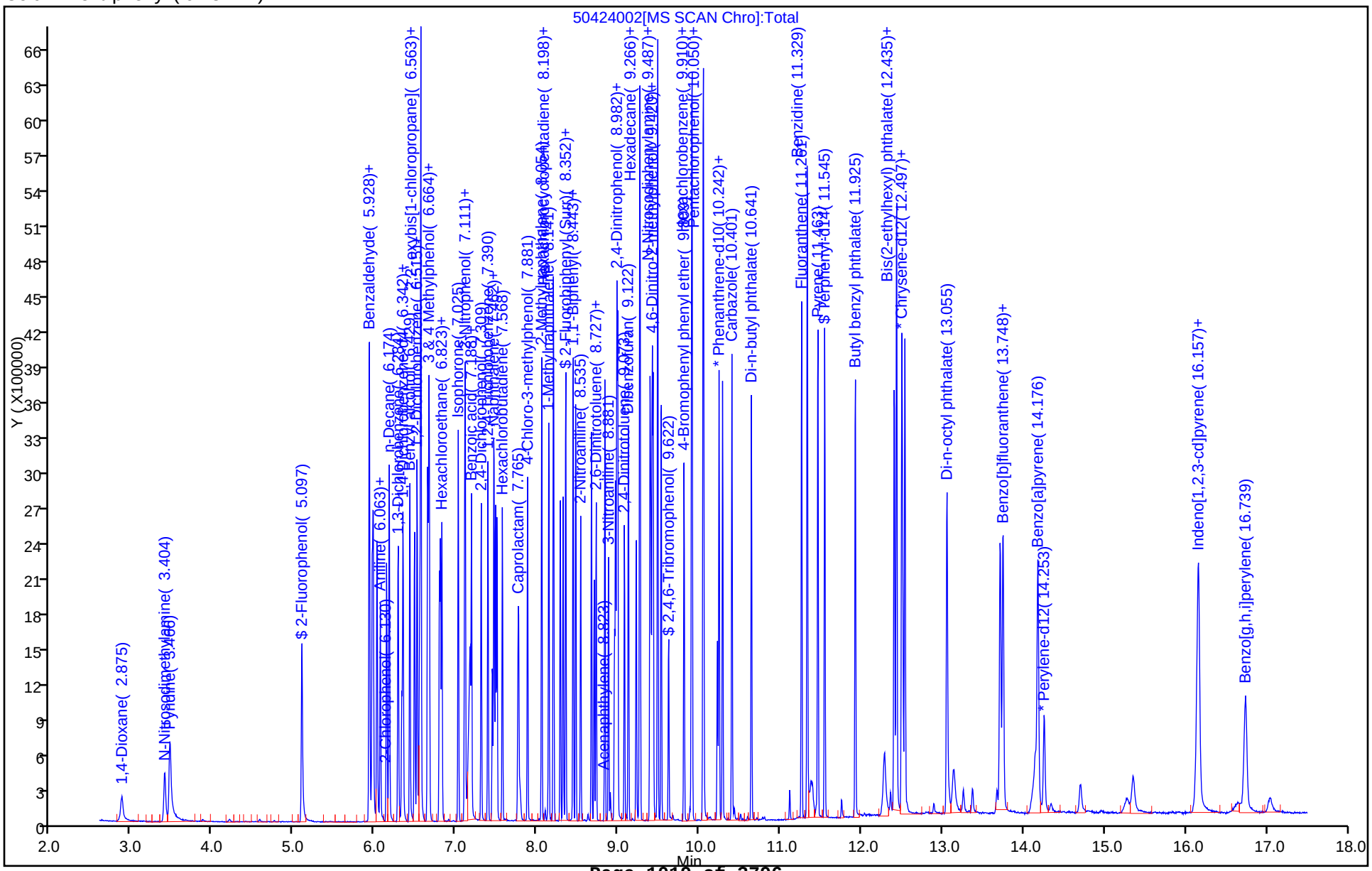
Report Date: 27-Apr-2015 09:33:29 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424002.D

Injection Date:	24-Apr-2015 08:09:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	ccv lst1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 240-177779/18 Calibration Date: 04/24/2015 14:52

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424018.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.069			0.110	0.100		
2-Methylnaphthalene	Ave	0.7019			0.113	0.100		
Acenaphthylene	Ave	1.715			0.104	0.100		
Acenaphthene	Ave	1.116			0.115	0.100		
Fluorene	Ave	1.275			0.101	0.100		
Hexachlorobenzene	Ave	0.2018			0.0977	0.100		
Phenanthrene	Ave	1.050			0.109	0.100		
Anthracene	Ave	1.050			0.108	0.100		
Fluoranthene	Ave	1.212			0.102	0.100		
Pyrene	Ave	1.096			0.106	0.100		
Benzo[a]anthracene	Ave	1.124			0.129	0.100		
Chrysene	Ave	1.027			0.115	0.100		
Benzo[b]fluoranthene	Ave	1.205			0.116	0.100		
Benzo[k]fluoranthene	Ave	1.214			0.109	0.100		
Benzo[a]pyrene	Ave	1.151			0.0888	0.100		
Indeno[1,2,3-cd]pyrene	Ave	1.165			0.0939	0.100		
Dibenz(a,h)anthracene	Ave	0.9613			0.0821	0.100		
Benzo[g,h,i]perylene	Ave	0.9662			0.115	0.100		
1,1'-Biphenyl	Ave	1.404			0.000500	0.100		
2-Chloronaphthalene	Ave	1.110			0.000500	0.100		
Dibenzofuran	Ave	1.519			0.000100	0.100		
Nitrobenzene-d5 (Surr)	Ave	0.7281			0.108	0.100	108	40-110
2-Fluorobiphenyl (Surr)	Ave	1.345			0.102	0.100	102	50-110
Terphenyl-d14 (Surr)	Ave	0.8139			0.105	0.100	105	50-135
2,4,6-Tribromophenol (Surr)	Ave	0.1481			0.000000	0.100	0*	40-125
2-Fluorophenol (Surr)	Ave	1.472			0.000000	0.100	0*	20-110
Phenol-d5 (Surr)	Ave	2.203			0.000000	0.100	0*	10-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424018.D
Lims ID: lodv l1
Client ID:
Sample Type: LODV
Inject. Date: 24-Apr-2015 14:52:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-018
Misc. Info.: LODV L1LODV L1
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 15:16:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.328	6.325	0.003	94	116934	4.00	4.00	
* 2 Naphthalene-d8	136	7.444	7.445	-0.001	99	435476	4.00	4.00	
* 3 Acenaphthene-d10	164	8.953	8.950	0.003	93	249141	4.00	4.00	
* 4 Phenanthrene-d10	188	10.223	10.220	0.003	97	482817	4.00	4.00	
* 5 Chrysene-d12	240	12.507	12.504	0.003	97	564505	4.00	4.00	
* 6 Perylene-d12	264	14.253	14.245	0.008	99	462974	4.00	4.00	
$ 7 2-Fluorophenol	112		5.097				ND	ND	
$ 8 Phenol-d5	99		5.962				ND	ND	
$ 9 Nitrobenzene-d5	82	6.804	6.804	0.000	82	8574	0.1000	0.1082	
$ 10 2-Fluorobiphenyl (Surr)	172	8.352	8.352	0.000	96	8525	0.1000	0.1018	
$ 11 2,4,6-Tribromophenol	330		9.622				ND	ND	
$ 12 Terphenyl-d14	244	11.545	11.545	0.000	97	12095	0.1000	0.1053	
25 1,4-Dioxane	88		2.875					ND	
26 N-Nitrosodimethylamine	74		3.404					ND	
27 Pyridine	79		3.466					ND	
20 Dimethylformamide	73		3.978					ND	
28 Ethyl methacrylate	69		4.089					ND	
31 2-Picoline	93		4.464					ND	
32 N-Nitrosomethylethylamine	88		4.579					ND	
35 Acrylamide	71		4.853					ND	
34 Methyl methanesulfonate	80		4.897					ND	
233 n,n'-Dimethylacetamide	44		4.993					ND	
36 N-Nitrosodiethylamine	102		5.320					ND	
37 Ethyl methanesulfonate	79		5.589					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.820					ND	
39 3-Methylcyclohexanone	69		5.854					ND	
40 4-Methylcyclohexanone	55		5.902					ND	
41 Benzaldehyde	77		5.928					ND	
43 Phenol	94		5.977					ND	
44 Aniline	93		6.025					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.063					ND	
45 Pentachloroethane	167		6.080					ND	
46 2-Chlorophenol	128		6.140					ND	
243 n-Decane	57		6.174					ND	
47 1,3-Dichlorobenzene	146		6.284					ND	
48 1,4-Dichlorobenzene	146		6.342					ND	
232 1-Methyl-2-pyrrilidinone	99		6.421					ND	
49 Benzyl alcohol	108		6.429					ND	
50 1,2-Dichlorobenzene	146		6.486					ND	
51 2-Methylphenol	108		6.515					ND	
53 2,2'-oxybis[1-chloropropan	45		6.549					ND	
52 Indene	115		6.563					ND	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
56 N-Nitrosopyrrolidine	100		6.633					ND	
21 3 & 4 Methylphenol	108		6.645					ND	
57 N-Nitrosodi-n-propylamine	70		6.659					ND	
59 N-Nitrosomorpholine	56		6.661					ND	
58 Acetophenone	105		6.669					ND	
60 2-Toluidine	106		6.700					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
61 Hexachloroethane	117		6.794					ND	
62 Nitrobenzene	77		6.823					ND	
63 N-Nitrosopiperidine	114		6.945					ND	
64 Isophorone	82		7.025					ND	
66 2-Nitrophenol	139		7.102					ND	
65 2,4-Dimethylphenol	107		7.111					ND	
67 1,3,5-Trichlorobenzene	180		7.123					ND	
68 o,o',o''-Triethylphosphoro	198		7.162					ND	
71 Benzoic acid	122		7.174					ND	
70 Bis(2-chloroethoxy)methane	93		7.188					ND	
72 alpha,alpha-Dimethyl phene	58		7.277					ND	
73 2,4-Dichlorophenol	162		7.309					ND	
74 1,2,4-Trichlorobenzene	180		7.390					ND	
75 Naphthalene	128	7.463	7.467	-0.004	96	12770	0.1000	0.1097	
76 4-Chloroaniline	127		7.487					ND	
77 2,6-Dichlorophenol	162		7.501					ND	
78 Hexachloropropene	213		7.546					ND	
79 Hexachlorobutadiene	225		7.568					ND	
80 1,2,3-Trichlorobenzene	180		7.590					ND	
81 Benzothiazole	135		7.676					ND	
82 Quinoline	129		7.739					ND	
83 N-Nitrosodi-n-butylamine	84		7.753					ND	
84 Caprolactam	113		7.770					ND	
85 p-Phenylene diamine	108		7.777					ND	
86 4-Chloro-3-methylphenol	107		7.881					ND	
94 Safrole, Total	162		7.955					ND	
87 2-Methylnaphthalene	142	8.054	8.054	0.000	91	8617	0.1000	0.1128	
88 1-Methylnaphthalene	142	8.141	8.141	0.000	89	7489	0.1000	0.1156	
90 1,2,3,5-Tetrachlorobenzene	216		8.191					ND	
89 Hexachlorocyclopentadiene	237		8.198					ND	
225 Isosafrole Peak 1	162		8.200					ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.203					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.285					ND	
93 2,4,5-Trichlorophenol	196		8.318					ND	
227 Isosafrole Peak 2	162		8.393					ND	
97 2,4-Toluene diamine	121		8.412					ND	
98 1,1'-Biphenyl	154		8.443				ND	ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.446					ND	
96 3,4-Dichloronitrobenzene	109		8.465					ND	
100 2-Chloronaphthalene	162		8.472				ND	ND	
246 1-Chloronaphthalene	162		8.498					ND	
101 Phenyl ether	170		8.523					ND	
102 2-Nitroaniline	65		8.535					ND	
103 1,4-Naphthoquinone	158		8.604					ND	
104 1,4-Dinitrobenzene	168		8.628					ND	
105 Dimethyl phthalate	163		8.670					ND	
106 1,3-Dinitrobenzene	168		8.703					ND	
107 2,6-Dinitrotoluene	165		8.727					ND	
109 Acenaphthylene	152	8.833	8.833	0.000	98	11127	0.1000	0.1042	
110 3-Nitroaniline	138		8.881					ND	
111 2,4-Dinitrophenol	184		8.968					ND	
112 Acenaphthene	153	8.978	8.982	-0.004	94	8003	0.1000	0.1151	
113 4-Nitrophenol	109		8.992					ND	
114 2,4-Dinitrotoluene	165		9.073					ND	
115 Pentachlorobenzene	250		9.095					ND	
116 Dibenzofuran	168		9.126				ND	ND	
117 1-Naphthylamine	143		9.176					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.181					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.223					ND	
120 2-Naphthylamine	143		9.244					ND	
121 Diethyl phthalate	149		9.261					ND	
247 Hexadecane	57		9.266					ND	
122 Thionazin	97		9.330					ND	
123 4-Chlorophenyl phenyl ethe	204		9.391					ND	
124 N-Nitro-o-toluidine	152		9.398					ND	
125 4-Nitroaniline	138		9.400					ND	
127 Tributyl phosphate	99		9.417					ND	
126 Fluorene	166	9.415	9.420	-0.005	96	8000	0.1000	0.1008	
128 4,6-Dinitro-2-methylphenol	198		9.429					ND	
130 Diphenylamine	169		9.484					ND	
131 N-Nitrosodiphenylamine	169		9.487					ND	
297 Benzophenone	105		9.512					ND	
132 1,2-Diphenylhydrazine	77		9.530					ND	
133 Azobenzene	77		9.530					ND	
134 Sulfotepp	202		9.585					ND	
135 1,3,5-Trinitrobenzene	213		9.662					ND	
137 Phenacetin	108		9.715					ND	
228 Diallate Peak 1	86		9.720					ND	
138 Phorate	121		9.729					ND	
230 Diallate Peak 2	86		9.802					ND	
139 4-Bromophenyl phenyl ether	248		9.809					ND	
140 Dimethoate	87		9.869					ND	
141 Hexachlorobenzene	284	9.901	9.901	0.000	78	2380	0.1000	0.0977	
142 Atrazine	200		9.910					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.028					ND	
244 n-Octadecane	57		10.045					ND	
144 Pronamide	173		10.052					ND	
143 Pentachlorophenol	266		10.054					ND	
145 Pentachloronitrobenzene	237		10.066					ND	
146 Disulfoton	88		10.167					ND	
147 Dinoseb	211		10.181					ND	
148 Phenanthrene	178	10.242	10.242	0.000	95	13839	0.1000	0.1092	
149 Anthracene	178	10.286	10.285	0.001	96	13627	0.1000	0.1075	
151 Carbazole	167		10.401					ND	
152 Methyl parathion	109		10.494					ND	
154 Di-n-butyl phthalate	149		10.641					ND	
153 Diphenylsulfone	125		10.672					ND	
155 Ethyl Parathion	97		10.816					ND	
156 4-Nitroquinoline-1-oxide	190		10.874					ND	
157 Methapyrilene	58		10.917					ND	
158 Isodrin	66		11.138					ND	
159 Fluoranthene	202	11.262	11.261	0.001	96	14950	0.1000	0.1022	
160 Benzidine	184		11.329					ND	
161 Pyrene	202	11.459	11.463	-0.004	95	16331	0.1000	0.1056	
226 Aramite Peak 1	185		11.489					ND	
229 Aramite Peak 2	185		11.547					ND	
163 p-Dimethylamino azobenzene	225		11.658					ND	
164 Chlorobenzilate	139		11.682					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.889					ND	
168 Butyl benzyl phthalate	149		11.925					ND	
169 3,3'-Dimethylbenzidine	212		11.937					ND	
171 2-Acetylaminofluorene	181		12.163					ND	
172 3,3'-Dimethoxybenzidine	244		12.379					ND	
173 Bis(2-ethylhexyl) phthalat	149		12.406					ND	
174 4,4'-Methylene bis(2-chlor	231		12.418					ND	
175 3,3'-Dichlorobenzidine	252		12.435					ND	
177 Benzo[a]anthracene	228	12.498	12.497	0.001	96	20520	0.1000	0.1294	
178 Chrysene	228	12.536	12.536	0.000	94	16632	0.1000	0.1147	
176 Hexabromobenzene	232		12.543					ND	
179 6-Methylchrysene	242		12.995					ND	
180 Di-n-octyl phthalate	149		13.055					ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.677					ND	
182 Benzo[b]fluoranthene	252	13.705	13.709	-0.004	94	16174	0.1000	0.1159	
183 Benzo[k]fluoranthene	252	13.743	13.748	-0.005	94	15383	0.1000	0.1095	
184 Benzo[a]pyrene	252	14.171	14.176	-0.005	74	11825	0.1000	0.0888	
185 3-Methylcholanthrene	268		14.692					ND	
187 Dibenz[a,h]acridine	279		15.649					ND	
186 Dibenz[a,j]acridine	279		15.746					ND	
188 Indeno[1,2,3-cd]pyrene	276	16.147	16.152	-0.005	90	12669	0.1000	0.0939	M
189 Dibenz(a,h)anthracene	278	16.152	16.162	-0.010	76	9139	0.1000	0.0821	M
190 Benzo[g,h,i]perylene	276	16.734	16.739	-0.005	68	12833	0.1000	0.1148	M
272 2,3-Dinitrotoluene	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
275 Dieldrin	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
270 Toxaphene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
268 Endrin	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.491					ND	
165 4,4'-DDD	235		11.775					ND	
170 4,4'-DDT	235		12.039					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	4.693	5.003	-0.307	0	91			0
T 194 Decane TIC	142	5.833	5.800	0.033	1	123			0
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121	7.189	7.249	-0.061	0	128			0

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121	7.328	7.363	-0.036	0	107		0	
T 236 3-isopropylphenol TIC	121	7.328	7.363	-0.036	0	107		0	
T 237 3-(1,1-Dimethylethyl Pheno	135		7.720					ND	
T 231 2,3,7,8-TCDD	322		8.240					ND	
T 195 Hydroquinone TIC	110	8.997	8.999	-0.003	1	198		0	
T 192 Octadecane (TIC)	254	13.671	9.600	4.071	86	74604		0	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326	12.002	11.999	0.002	0	148		0	
T 280 2,3,7,8-TCDD TIC	198	12.507	12.499	0.007	0	4995		0	
T 241 Tricresyl phosphate TIC	368	12.546	12.499	0.046	0	120		0	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201	14.022	13.999	0.022	0	144		0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L1 W_00005 Amount Added: 1.00 Units: mL

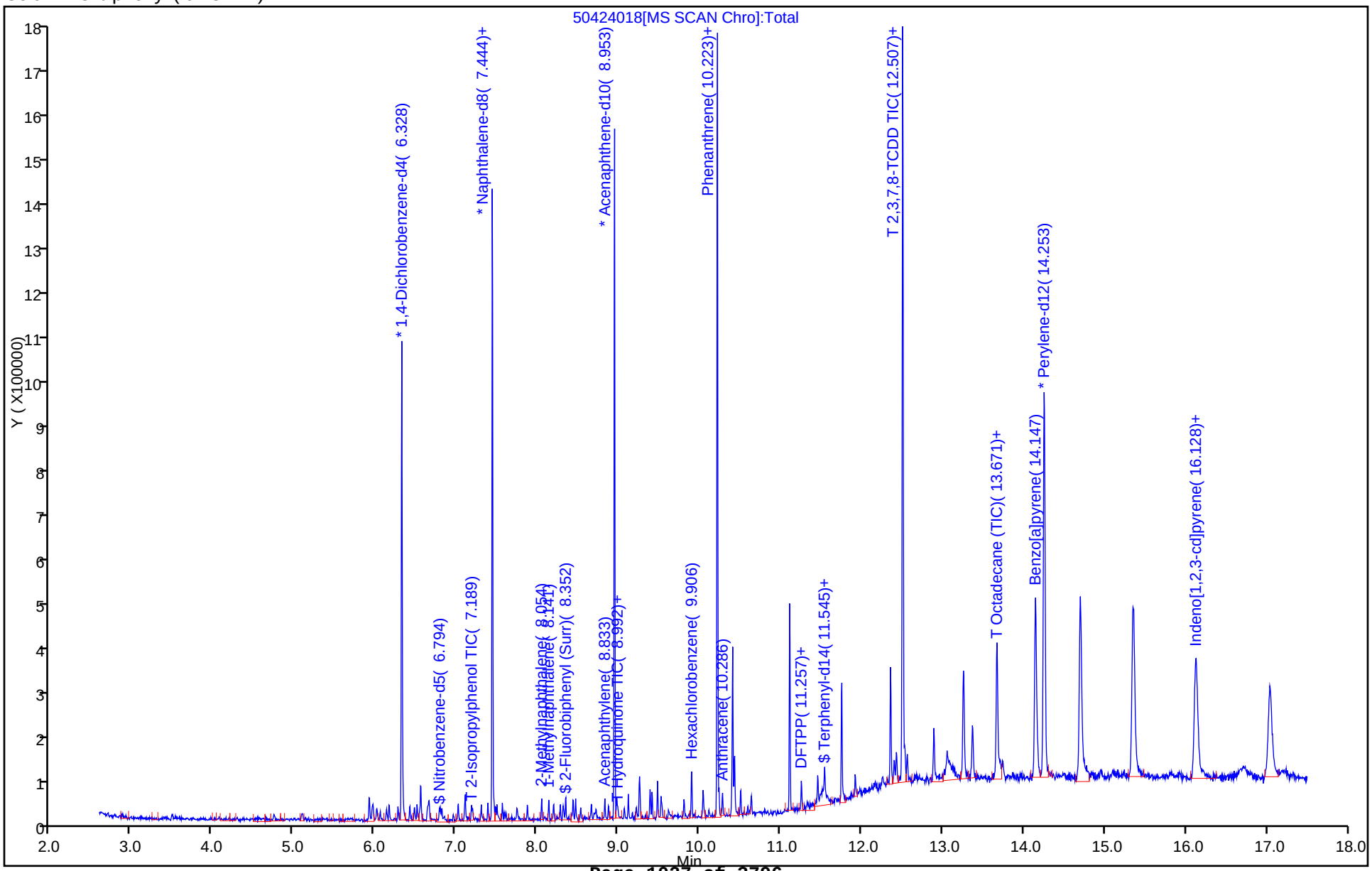
Report Date: 27-Apr-2015 09:33:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424018.D

Injection Date:	24-Apr-2015 14:52:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	lodv l1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



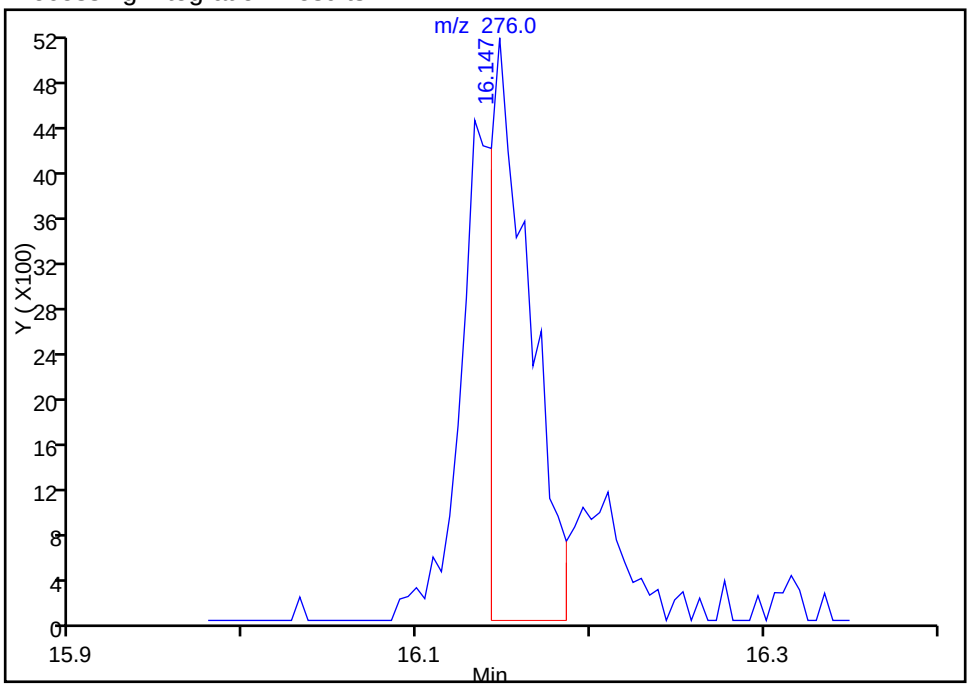
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424018.D				
Injection Date:	24-Apr-2015 14:52:30	Instrument ID:	A4HP9		
Lims ID:	lodv l1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

188 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

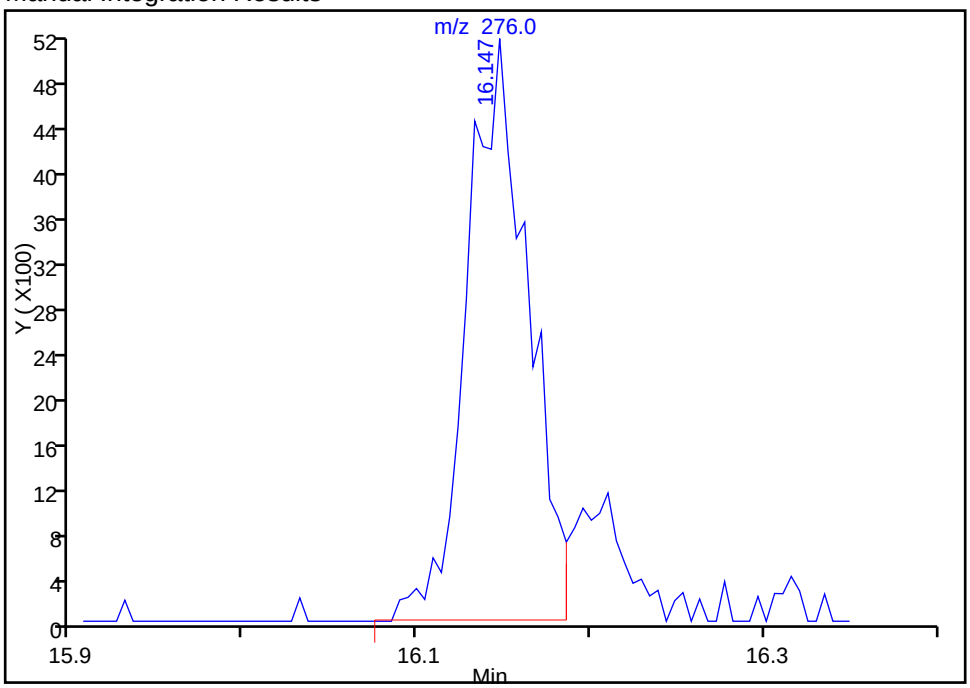
Processing Integration Results

RT: 16.15
Area: 8100
Amount: 0.060063
Amount Units: ng/ul



Manual Integration Results

RT: 16.15
Area: 12669
Amount: 0.093942
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 15:18:44
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

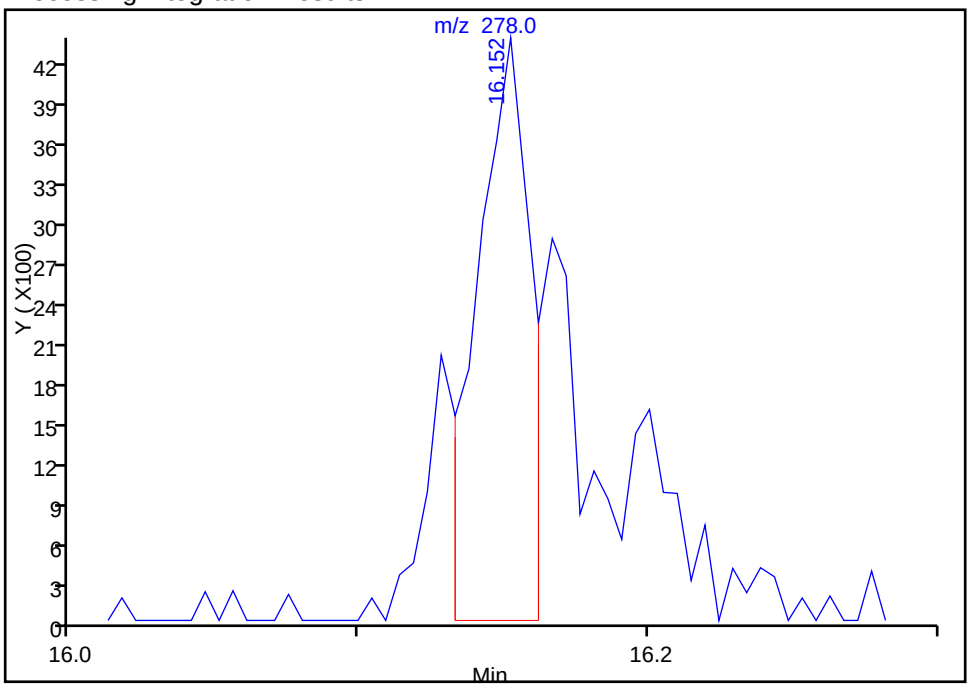
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424018.D				
Injection Date:	24-Apr-2015 14:52:30	Instrument ID:	A4HP9		
Lims ID:	lodv l1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

189 Dibenz(a,h)anthracene, CAS: 53-70-3

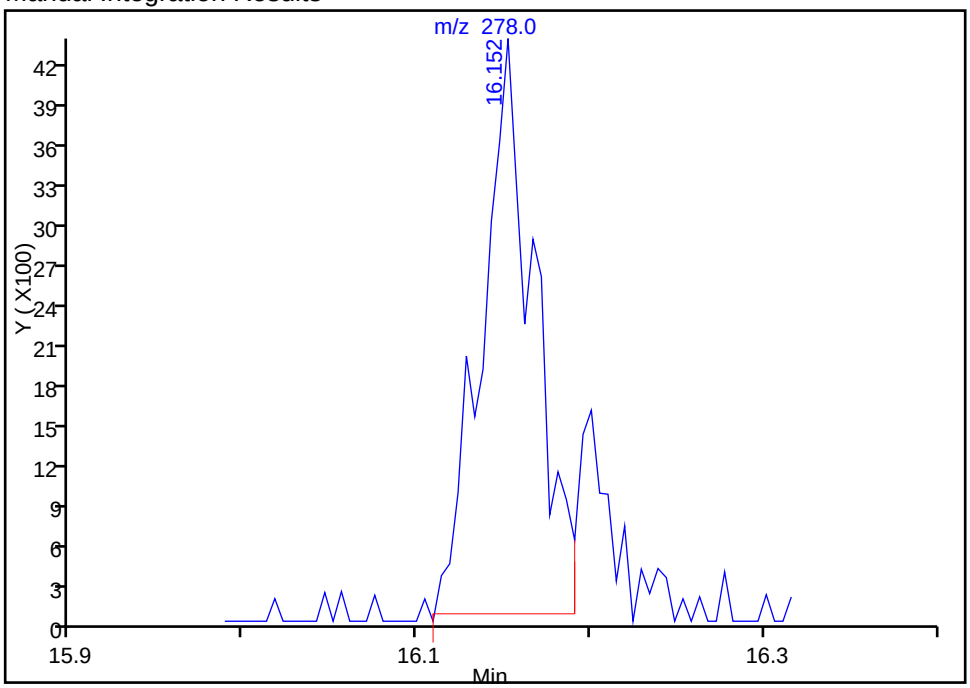
Processing Integration Results

RT: 16.15
Area: 5772
Amount: 0.051874
Amount Units: ng/ul



Manual Integration Results

RT: 16.15
Area: 9139
Amount: 0.082134
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 15:18:44
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

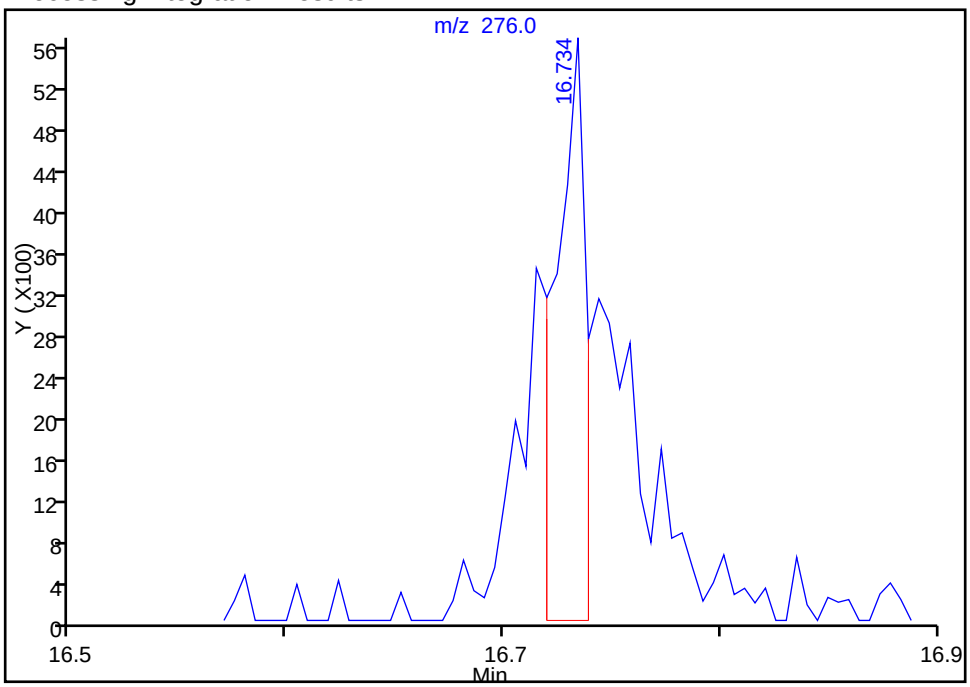
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424018.D				
Injection Date:	24-Apr-2015 14:52:30	Instrument ID:	A4HP9		
Lims ID:	lodv l1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

190 Benzo[g,h,i]perylene, CAS: 191-24-2

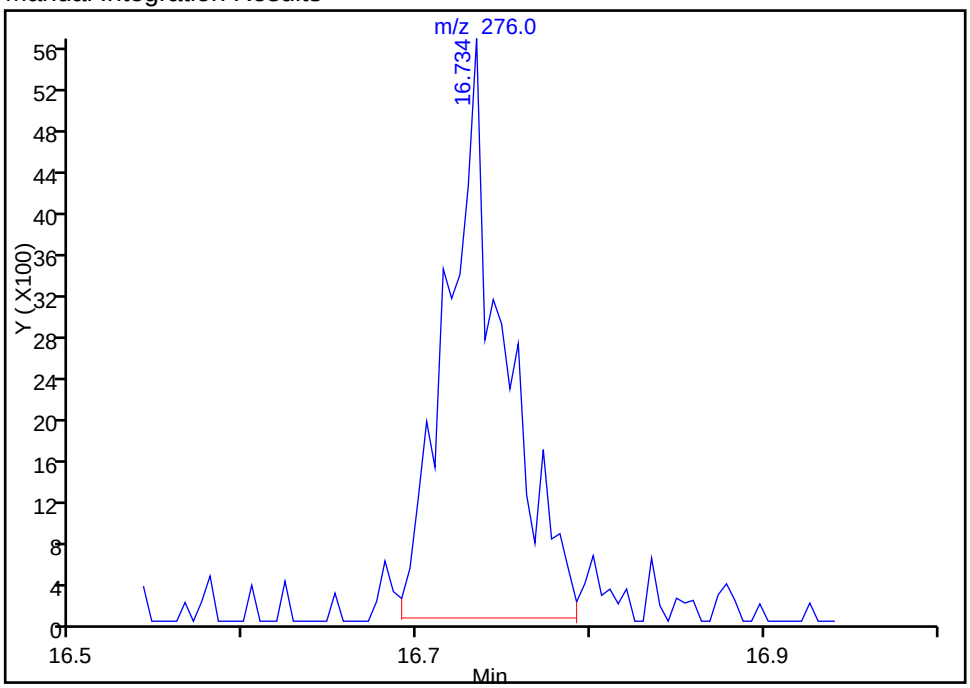
Processing Integration Results

RT: 16.73
Area: 5554
Amount: 0.049665
Amount Units: ng/ul



Manual Integration Results

RT: 16.73
Area: 12833
Amount: 0.114755
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 15:18:44
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 240-177779/19 Calibration Date: 04/24/2015 15:17

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424019.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8489			0.425	0.500		
N-Nitrosodimethylamine	Ave	1.417			0.454	0.500		
Pyridine	Ave	2.280			0.422	0.500		
Benzaldehyde	Ave	1.670			1.06	1.00		
Phenol	Ave	2.388			0.495	0.500		
Aniline	Ave	2.967			0.481	0.500		
Bis(2-chloroethyl)ether	Ave	2.001			0.515	0.500		
2-Chlorophenol	Ave	1.398			0.474	0.500		
1,3-Dichlorobenzene	Ave	1.512			0.521	0.500		
1,4-Dichlorobenzene	Ave	1.533			0.508	0.500		
Benzyl alcohol	Ave	1.126			0.437	0.500		
1,2-Dichlorobenzene	Ave	1.431			0.462	0.500		
2-Methylphenol	Ave	1.554			0.498	0.500		
bis (2-chloroisopropyl) ether	Ave	1.639			0.524	0.500		
Indene	Ave	2.818			1.07	1.00		
3 & 4 Methylphenol	Ave	1.645			0.519	0.500		
N-Nitrosodi-n-propylamine	Ave	1.720			0.487	0.500		
Acetophenone	Ave	2.383			0.523	0.500		
Hexachloroethane	Ave	0.7281			0.508	0.500		
Nitrobenzene	Ave	0.6722			0.467	0.500		
Isophorone	Ave	1.136			0.463	0.500		
2-Nitrophenol	Ave	0.1857			0.376	0.500		
2,4-Dimethylphenol	Ave	0.4926			0.512	0.500		
Bis(2-chloroethoxy)methane	Ave	0.5716			0.508	0.500		
2,4-Dichlorophenol	Ave	0.2968			0.508	0.500		
1,2,4-Trichlorobenzene	Ave	0.3272			0.476	0.500		
4-Chloroaniline	Ave	0.4667			0.439	0.500		
2,6-Dichlorophenol	Ave	0.2918			0.499	0.500		
Hexachlorobutadiene	Ave	0.2201			0.508	0.500		
Caprolactam	Ave	0.1252			1.01	1.00		
4-Chloro-3-methylphenol	Ave	0.4176			0.473	0.500		
1,2,4,5-Tetrachlorobenzene	Ave	0.5765			0.534	0.500		
2,4,6-Trichlorophenol	Ave	0.3845			0.491	0.500		
2,4,5-Trichlorophenol	Ave	0.4014			0.435	0.500		
1,1'-Biphenyl	Ave	1.404			0.478	0.500		
2-Chloronaphthalene	Ave	1.110			0.492	0.500		
2-Nitroaniline	Ave	0.5629			0.442	0.500		
Dimethyl phthalate	Ave	1.248			0.516	0.500		
1,3-Dinitrobenzene	Ave	0.2002			0.397	0.500		
2,6-Dinitrotoluene	Ave	0.2924			0.386	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 240-177779/19 Calibration Date: 04/24/2015 15:17

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424019.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.2915			0.425	0.500		
2,4-Dinitrotoluene	Ave	0.3819			0.407	0.500		
Dibenzofuran	Ave	1.519			0.506	0.500		
2,3,4,6-Tetrachlorophenol	Ave	0.3232			0.480	0.500		
Diethyl phthalate	Ave	1.260			0.546	0.500		
4-Chlorophenyl phenyl ether	Ave	0.6472			0.521	0.500		
4-Nitroaniline	Ave	0.2823			0.568	0.500		
N-Nitrosodiphenylamine	Ave	0.5377			1.04	1.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118			0.477	0.500		
4-Bromophenyl phenyl ether	Ave	0.2049			0.527	0.500		
Atrazine	Ave	0.2061			1.05	1.00		
Carbazole	Ave	0.9379			0.500	0.500		
Di-n-butyl phthalate	Ave	1.175			0.474	0.500		
Butyl benzyl phthalate	Ave	0.5093			0.417	0.500		
Bis(2-ethylhexyl) phthalate	Ave	0.6761			0.456	0.500		
3,3'-Dichlorobenzidine	Ave	0.3645			0.966	1.00		
Di-n-octyl phthalate	Ave	1.408			0.434	0.500		
2,4-Dinitrophenol	Lin				0.00100	1.00		
2-Methylnaphthalene	Ave	0.7019			0.000100	0.500		
4,6-Dinitro-2-methylphenol	Lin1				0.00400	1.00		
4-Nitrophenol	Ave	0.2767			0.00400	1.00		
Acenaphthene	Ave	1.116			0.000100	0.500		
Acenaphthylene	Ave	1.715			0.000100	0.500		
Anthracene	Ave	1.050			0.000100	0.500		
Benzidine	Ave	0.5801			0.00100	1.00		
Benzo[a]anthracene	Ave	1.124			0.000100	0.500		
Benzo[a]pyrene	Ave	1.151			0.000100	0.500		
Benzo[b]fluoranthene	Ave	1.205			0.000100	0.500		
Benzo[g,h,i]perylene	Ave	0.9662			0.000100	0.500		
Benzo[k]fluoranthene	Ave	1.214			0.000100	0.500		
Benzoic acid	Lin1				0.0200	1.00		
Chrysene	Ave	1.027			0.000100	0.500		
Dibenz(a,h)anthracene	Ave	0.9613			0.000100	0.500		
Fluoranthene	Ave	1.212			0.000100	0.500		
Fluorene	Ave	1.275			0.000100	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 240-177779/19 Calibration Date: 04/24/2015 15:17

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424019.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobenzene	Ave	0.2018			0.000100	0.500		
Hexachlorocyclopentadiene	Ave	0.3739			0.000500	0.500		
Indeno[1,2,3-cd]pyrene	Ave	1.165			0.000100	0.500		
Naphthalene	Ave	1.069			0.000100	0.500		
Pentachlorophenol	Lin1				0.00100	1.00		
Phenanthrene	Ave	1.050			0.000100	0.500		
Pyrene	Ave	1.096			0.000100	0.500		
2-Fluorophenol (Surr)	Ave	1.472			0.493	0.500	99	20-110
Phenol-d5 (Surr)	Ave	2.203			0.464	0.500	93	10-115
2,4,6-Tribromophenol (Surr)	Ave	0.1481			0.510	0.500	102	40-125
2-Fluorobiphenyl (Surr)	Ave	1.345			0.000000	0.500	0*	50-110
Nitrobenzene-d5 (Surr)	Ave	0.7281			0.000000	0.500	0*	40-110
Terphenyl-d14 (Surr)	Ave	0.8139			0.000000	0.500	0*	50-135

Report Date: 27-Apr-2015 09:33:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424019.D
Lims ID: lodv l2
Client ID:
Sample Type: LODV
Inject. Date: 24-Apr-2015 15:17:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-019
Misc. Info.: LODV L2LODV L2
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 15:46:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.329	6.325	0.004	96	121094	4.00	4.00	
* 2 Naphthalene-d8	136	7.445	7.445	0.000	99	459468	4.00	4.00	
* 3 Acenaphthene-d10	164	8.950	8.950	0.000	93	271332	4.00	4.00	
* 4 Phenanthrene-d10	188	10.219	10.220	-0.001	95	511662	4.00	4.00	
* 5 Chrysene-d12	240	12.503	12.504	-0.001	97	598843	4.00	4.00	
* 6 Perylene-d12	264	14.249	14.245	0.004	99	487963	4.00	4.00	
$ 7 2-Fluorophenol	112	5.098	5.097	0.001	95	21963	0.5000	0.4927	
$ 8 Phenol-d5	99	5.963	5.962	0.001	94	30931	0.5000	0.4639	
$ 9 Nitrobenzene-d5	82		6.804				ND	ND	
$ 10 2-Fluorobiphenyl (Surr)	172		8.352				ND	ND	
$ 11 2,4,6-Tribromophenol	330	9.618	9.622	-0.004	81	5125	0.5000	0.5101	
$ 12 Terphenyl-d14	244		11.545				ND	ND	
25 1,4-Dioxane	88	2.862	2.875	-0.013	97	10914	0.5000	0.4247	
26 N-Nitrosodimethylamine	74	3.396	3.404	-0.008	76	19473	0.5000	0.4541	
27 Pyridine	79	3.477	3.466	0.011	95	29148	0.5000	0.4224	M
20 Dimethylformamide	73		3.978					ND	
28 Ethyl methacrylate	69		4.089					ND	
31 2-Picoline	93		4.464					ND	
32 N-Nitrosomethylethylamine	88		4.579					ND	
35 Acrylamide	71		4.853					ND	
34 Methyl methanesulfonate	80		4.897					ND	
233 n,n'-Dimethylacetamide	44		4.993					ND	
36 N-Nitrosodiethylamine	102		5.320					ND	
37 Ethyl methanesulfonate	79		5.589					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.820					ND	
39 3-Methylcyclohexanone	69		5.854					ND	
40 4-Methylcyclohexanone	55		5.902					ND	
41 Benzaldehyde	77	5.925	5.928	-0.003	88	53707	1.00	1.06	
43 Phenol	94	5.973	5.977	-0.004	96	35779	0.5000	0.4949	
44 Aniline	93	6.021	6.025	-0.004	95	43218	0.5000	0.4812	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93	6.060	6.063	-0.003	99	31185	0.5000	0.5147	
45 Pentachloroethane	167		6.080					ND	
46 2-Chlorophenol	128	6.141	6.140	0.001	88	20061	0.5000	0.4741	
243 n-Decane	57		6.174				ND	ND	
47 1,3-Dichlorobenzene	146	6.281	6.284	-0.003	88	23847	0.5000	0.5211	
48 1,4-Dichlorobenzene	146	6.343	6.342	0.001	86	23579	0.5000	0.5079	
232 1-Methyl-2-pyrrilidinone	99		6.421					ND	
49 Benzyl alcohol	108	6.425	6.429	-0.004	84	14899	0.5000	0.4369	
50 1,2-Dichlorobenzene	146	6.483	6.486	-0.003	86	20029	0.5000	0.4625	
51 2-Methylphenol	108	6.516	6.515	0.001	91	23415	0.5000	0.4978	
53 2,2'-oxybis[1-chloropropan	45	6.545	6.549	-0.004	96	25998	0.5000	0.5241	
52 Indene	115	6.560	6.563	-0.003	88	91453	1.00	1.07	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
56 N-Nitrosopyrrolidine	100		6.633					ND	
21 3 & 4 Methylphenol	108	6.646	6.645	0.001	93	25874	0.5000	0.5195	
57 N-Nitrosodi-n-propylamine	70	6.656	6.659	-0.003	97	25368	0.5000	0.4871	
59 N-Nitrosomorpholine	56		6.661					ND	
58 Acetophenone	105	6.666	6.669	-0.003	88	37712	0.5000	0.5228	
60 2-Toluidine	106		6.700					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
61 Hexachloroethane	117	6.791	6.794	-0.003	90	11187	0.5000	0.5075	
62 Nitrobenzene	77	6.819	6.823	-0.004	83	36095	0.5000	0.4674	
63 N-Nitrosopiperidine	114		6.945					ND	
64 Isophorone	82	7.021	7.025	-0.004	97	60384	0.5000	0.4627	
66 2-Nitrophenol	139	7.103	7.102	0.001	81	8030	0.5000	0.3764	
65 2,4-Dimethylphenol	107	7.108	7.111	-0.003	94	28998	0.5000	0.5125	
67 1,3,5-Trichlorobenzene	180		7.123					ND	
68 o,o',o''-Triethylphosphoro	198		7.162					ND	
71 Benzoic acid	122		7.174				ND	ND	
70 Bis(2-chloroethoxy)methane	93	7.185	7.188	-0.003	98	33349	0.5000	0.5079	
72 alpha,alpha-Dimethyl phene	58		7.277					ND	
73 2,4-Dichlorophenol	162	7.310	7.309	0.001	93	17313	0.5000	0.5078	
74 1,2,4-Trichlorobenzene	180	7.392	7.390	0.002	89	17874	0.5000	0.4756	
75 Naphthalene	128		7.467				ND	ND	
76 4-Chloroaniline	127	7.483	7.487	-0.004	89	23554	0.5000	0.4394	
77 2,6-Dichlorophenol	162	7.502	7.501	0.001	85	16727	0.5000	0.4991	
78 Hexachloropropene	213		7.546					ND	
79 Hexachlorobutadiene	225	7.570	7.568	0.002	94	12835	0.5000	0.5076	
80 1,2,3-Trichlorobenzene	180		7.590					ND	
81 Benzothiazole	135		7.676					ND	
82 Quinoline	129		7.739					ND	
83 N-Nitrosodi-n-butylamine	84		7.753					ND	
84 Caprolactam	113	7.748	7.770	-0.022	83	14453	1.00	1.01	
85 p-Phenylene diamine	108		7.777					ND	
86 4-Chloro-3-methylphenol	107	7.877	7.881	-0.004	87	22678	0.5000	0.4728	
94 Safrole, Total	162		7.955					ND	
87 2-Methylnaphthalene	142		8.054				ND	ND	
88 1-Methylnaphthalene	142		8.141				ND	ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.191					ND	
89 Hexachlorocyclopentadiene	237		8.198				ND	ND	
225 Isosafrole Peak 1	162		8.200					ND	
91 1,2,4,5-Tetrachlorobenzene	216	8.200	8.203	-0.003	96	20883	0.5000	0.5340	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196	8.281	8.285	-0.004	92	12809	0.5000	0.4911	
93 2,4,5-Trichlorophenol	196	8.315	8.318	-0.003	91	11848	0.5000	0.4352	
227 Isosafrole Peak 2	162		8.393					ND	
97 2,4-Toluene diamine	121		8.412					ND	
98 1,1'-Biphenyl	154	8.440	8.443	-0.003	97	45503	0.5000	0.4779	
99 1,2,3,4 -Tetrachlorobenzen	216		8.446					ND	
96 3,4-Dichloronitrobenzene	109		8.465					ND	
100 2-Chloronaphthalene	162	8.474	8.472	0.002	98	37044	0.5000	0.4918	
246 1-Chloronaphthalene	162		8.498					ND	
101 Phenyl ether	170		8.523					ND	
102 2-Nitroaniline	65	8.531	8.535	-0.004	69	16857	0.5000	0.4415	
103 1,4-Naphthoquinone	158		8.604					ND	
104 1,4-Dinitrobenzene	168		8.628					ND	
105 Dimethyl phthalate	163	8.666	8.670	-0.004	93	43687	0.5000	0.5159	
106 1,3-Dinitrobenzene	168	8.700	8.703	-0.003	81	5393	0.5000	0.3971	
107 2,6-Dinitrotoluene	165	8.724	8.727	-0.003	73	7657	0.5000	0.3861	
109 Acenaphthylene	152		8.833				ND	ND	
110 3-Nitroaniline	138	8.878	8.881	-0.003	84	8401	0.5000	0.4249	
111 2,4-Dinitrophenol	184		8.968				ND	ND	
112 Acenaphthene	153		8.982				ND	ND	
113 4-Nitrophenol	109		8.992				ND	ND	
114 2,4-Dinitrotoluene	165	9.070	9.073	-0.003	79	10533	0.5000	0.4066	
115 Pentachlorobenzene	250		9.095					ND	
116 Dibenzofuran	168	9.123	9.126	-0.003	94	52103	0.5000	0.5058	
117 1-Naphthylamine	143		9.176					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.181					ND	
119 2,3,4,6-Tetrachlorophenol	232	9.219	9.223	-0.003	72	10525	0.5000	0.4801	
120 2-Naphthylamine	143		9.244					ND	
121 Diethyl phthalate	149	9.257	9.261	-0.004	95	46668	0.5000	0.5461	
247 Hexadecane	57		9.266				ND	ND	
122 Thionazin	97		9.330					ND	
123 4-Chlorophenyl phenyl ethe	204	9.387	9.391	-0.004	93	22884	0.5000	0.5213	
124 N-Nitro-o-toluidine	152		9.398					ND	
125 4-Nitroaniline	138	9.397	9.400	-0.003	77	10885	0.5000	0.5684	
127 Tributyl phosphate	99		9.417					ND	
126 Fluorene	166		9.420				ND	ND	
128 4,6-Dinitro-2-methylphenol	198		9.429				ND	ND	
130 Diphenylamine	169		9.484					ND	
131 N-Nitrosodiphenylamine	169	9.483	9.487	-0.004	97	71316	1.00	1.04	
297 Benzophenone	105		9.512					ND	
132 1,2-Diphenylhydrazine	77	9.527	9.530	-0.003	98	68180	0.5000	0.4770	
133 Azobenzene	77	9.527	9.530	-0.003	96	68180	0.5000	0.4770	
134 Sulfotepp	202		9.585					ND	
135 1,3,5-Trinitrobenzene	213		9.662					ND	
137 Phenacetin	108		9.715					ND	
228 Diallate Peak 1	86		9.720					ND	
138 Phorate	121		9.729					ND	
230 Diallate Peak 2	86		9.802					ND	
139 4-Bromophenyl phenyl ether	248	9.810	9.809	0.001	74	13817	0.5000	0.5273	
140 Dimethoate	87		9.869					ND	
141 Hexachlorobenzene	284		9.901				ND	ND	
142 Atrazine	200	9.902	9.910	-0.008	89	27685	1.00	1.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.028					ND	
244 n-Octadecane	57		10.045				ND	ND	
144 Pronamide	173		10.052					ND	
143 Pentachlorophenol	266		10.054				ND	ND	
145 Pentachloronitrobenzene	237		10.066					ND	
146 Disulfoton	88		10.167					ND	
147 Dinoseb	211		10.181					ND	
148 Phenanthrene	178		10.242				ND	ND	
149 Anthracene	178		10.285				ND	ND	
151 Carbazole	167	10.397	10.401	-0.004	97	60006	0.5000	0.5002	
152 Methyl parathion	109		10.494					ND	
154 Di-n-butyl phthalate	149	10.638	10.641	-0.003	99	71202	0.5000	0.4738	
153 Diphenylsulfone	125		10.672					ND	
155 Ethyl Parathion	97		10.816					ND	
156 4-Nitroquinoline-1-oxide	190		10.874					ND	
157 Methapyrilene	58		10.917					ND	
158 Isodrin	66		11.138					ND	
159 Fluoranthene	202		11.261				ND	ND	
160 Benzidine	184		11.329				ND	ND	
161 Pyrene	202		11.463				ND	ND	
226 Aramite Peak 1	185		11.489					ND	
229 Aramite Peak 2	185		11.547					ND	
163 p-Dimethylamino azobenzene	225		11.658					ND	
164 Chlorobenzilate	139		11.682					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.889					ND	
168 Butyl benzyl phthalate	149	11.922	11.925	-0.003	89	31817	0.5000	0.4173	
169 3,3'-Dimethylbenzidine	212		11.937					ND	
171 2-Acetylaminofluorene	181		12.163					ND	
172 3,3'-Dimethoxybenzidine	244		12.379					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.402	12.406	-0.004	96	46169	0.5000	0.4561	
174 4,4'-Methylene bis(2-chlor	231		12.418					ND	
175 3,3'-Dichlorobenzidine	252	12.426	12.435	-0.009	76	52732	1.00	0.9663	
177 Benzo[a]anthracene	228		12.497				ND	ND	
178 Chrysene	228		12.536				ND	ND	
176 Hexabromobenzene	232		12.543					ND	
179 6-Methylchrysene	242		12.995					ND	
180 Di-n-octyl phthalate	149	13.052	13.055	-0.003	99	74584	0.5000	0.4341	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.677					ND	
182 Benzo[b]fluoranthene	252		13.709				ND	ND	
183 Benzo[k]fluoranthene	252		13.748				ND	ND	
184 Benzo[a]pyrene	252		14.176				ND	ND	
185 3-Methylcholanthrene	268		14.692					ND	
187 Dibenz[a,h]acridine	279		15.649					ND	
186 Dibenz[a,j]acridine	279		15.746					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.152				ND	ND	
189 Dibenz(a,h)anthracene	278		16.162				ND	ND	
190 Benzo[g,h,i]perylene	276		16.739				ND	ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
275 Dieldrin	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
270 Toxaphene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
268 Endrin	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.491					ND	
165 4,4'-DDD	235		11.775					ND	
170 4,4'-DDT	235		12.039					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100				0			1.02	
S 245 Total Cresols	100				0			1.02	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110		5.000					ND	
T 194 Decane TIC	142		5.800					ND	
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121		7.250					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121		7.364					ND	
T 236 3-isopropylphenol TIC	121		7.364					ND	
T 237 3-(1,1-Dimethylethyl Pheno	135		7.720					ND	
T 231 2,3,7,8-TCDD	322		8.240					ND	
T 195 Hydroquinone TIC	110		9.000					ND	
T 192 Octadecane (TIC)	254		9.600					ND	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326		12.000					ND	
T 280 2,3,7,8-TCDD TIC	198		12.500					ND	
T 241 Tricresyl phosphate TIC	368		12.500					ND	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201		14.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L2 W_00005 Amount Added: 1.00 Units: mL

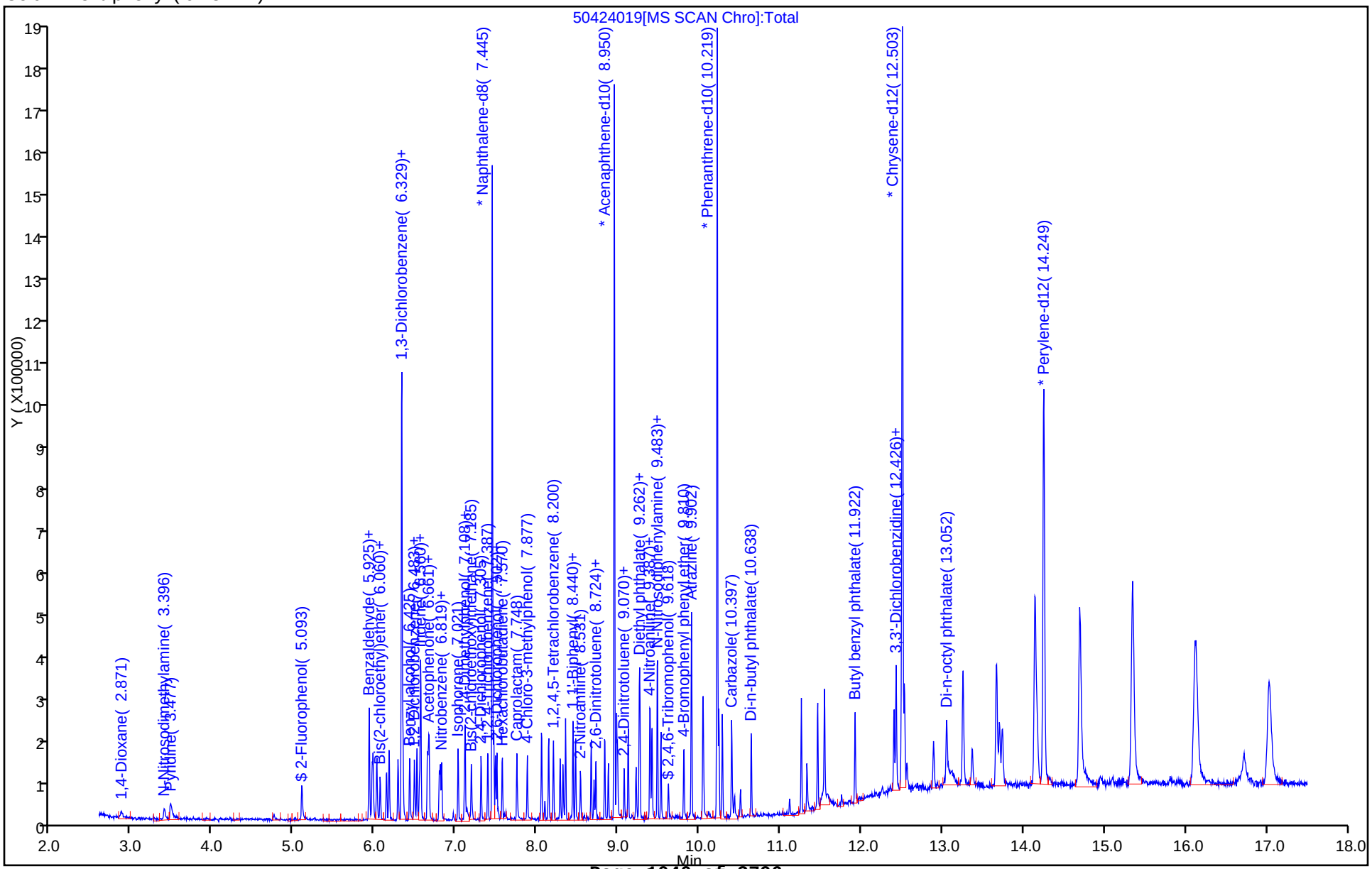
Report Date: 27-Apr-2015 09:33:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424019.D

Injection Date:	24-Apr-2015 15:17:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	lodv l2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

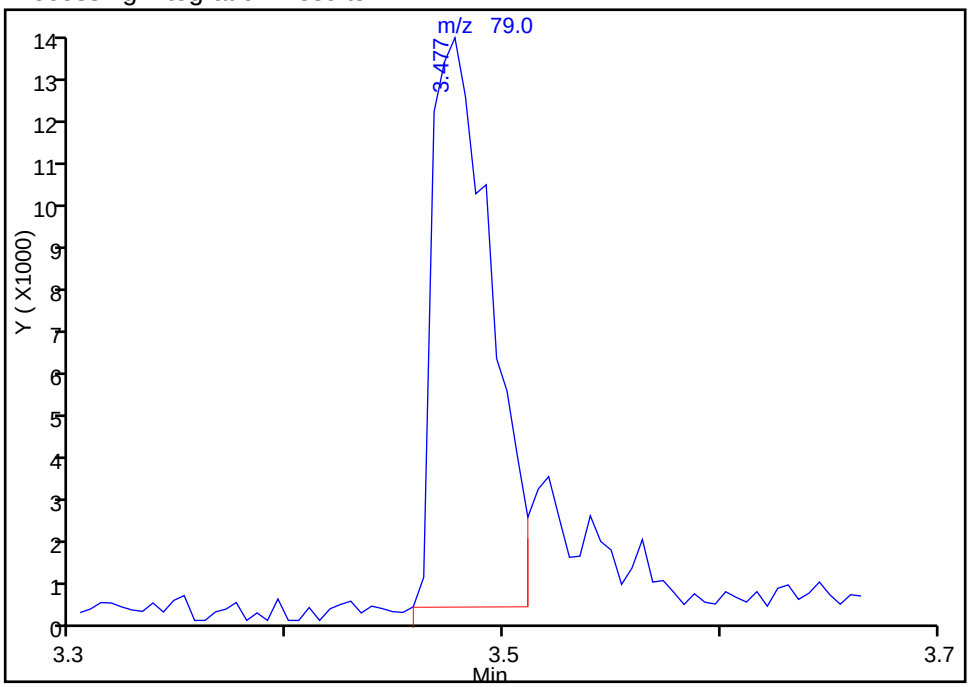
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424019.D
Injection Date: 24-Apr-2015 15:17:30 Instrument ID: A4HP9
Lims ID: lodv l2
Client ID:
Operator ID: 001574 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

27 Pyridine, CAS: 110-86-1

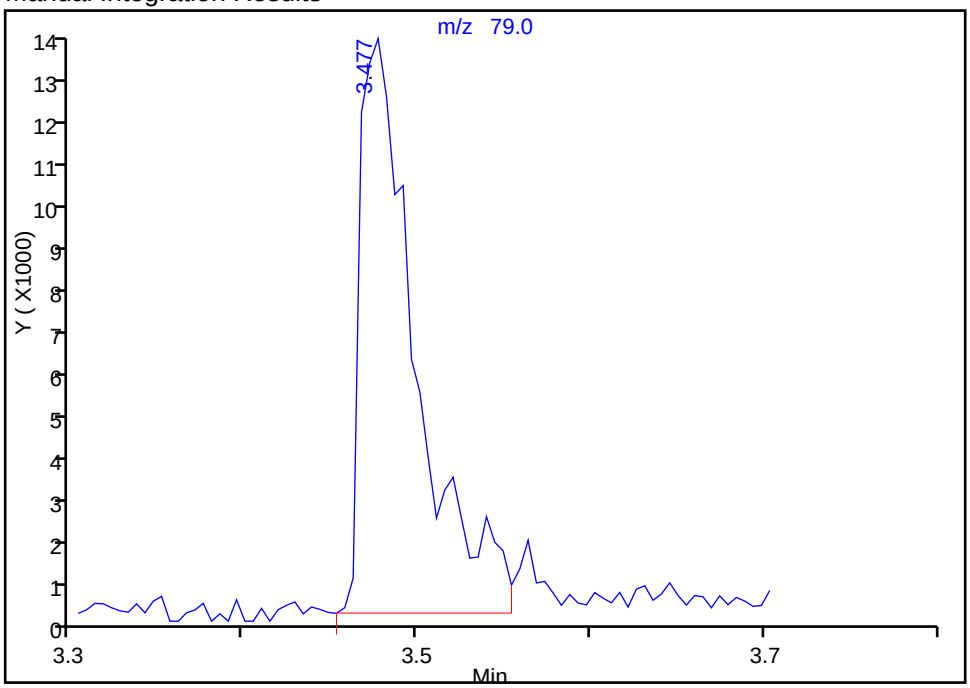
Processing Integration Results

RT: 3.48
Area: 24040
Amount: 0.348355
Amount Units: ng/ul



Manual Integration Results

RT: 3.48
Area: 29148
Amount: 0.422373
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 15:46:19
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 240-177779/20 Calibration Date: 04/24/2015 15:42

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424020.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzoic acid	Lin1				1.94	2.00		
Hexachlorocyclopentadiene	Ave	0.3739			0.359	1.00		
2,4-Dinitrophenol	Lin				2.42	2.00		
4-Nitrophenol	Ave	0.2767			1.80	2.00		
4,6-Dinitro-2-methylphenol	Lin1				1.15	2.00		
Pentachlorophenol	Lin1				1.69	2.00		
Benzidine	Ave	0.5801			1.16	2.00		
1,1'-Biphenyl	Ave	1.404			0.000500	1.00		
1,2,4,5-Tetrachlorobenzene	Ave	0.5765			0.00100	1.00		
1,2,4-Trichlorobenzene	Ave	0.3272			0.000500	1.00		
1,2-Dichlorobenzene	Ave	1.431			0.000500	1.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118			0.000500	1.00		
1,3-Dichlorobenzene	Ave	1.512			0.000500	1.00		
1,3-Dinitrobenzene	Ave	0.2002			0.00100	1.00		
1,4-Dichlorobenzene	Ave	1.533			0.000500	1.00		
1,4-Dioxane	Ave	0.8489			0.00100	1.00		
2,3,4,6-Tetrachlorophenol	Ave	0.3232			0.00100	1.00		
2,4,5-Trichlorophenol	Ave	0.4014			0.000500	1.00		
2,4,6-Trichlorophenol	Ave	0.3845			0.000500	1.00		
2,4-Dichlorophenol	Ave	0.2968			0.000500	1.00		
2,4-Dimethylphenol	Ave	0.4926			0.000500	1.00		
2,4-Dinitrotoluene	Ave	0.3819			0.000500	1.00		
2,6-Dichlorophenol	Ave	0.2918			0.00200	1.00		
2,6-Dinitrotoluene	Ave	0.2924			0.00500	1.00		
2-Chloronaphthalene	Ave	1.110			0.000500	1.00		
2-Chlorophenol	Ave	1.398			0.000500	1.00		
2-Methylnaphthalene	Ave	0.7019			0.000100	1.00		
2-Methylphenol	Ave	1.554			0.000500	1.00		
2-Nitroaniline	Ave	0.5629			0.000500	1.00		
2-Nitrophenol	Ave	0.1857			0.000500	1.00		
3 & 4 Methylphenol	Ave	1.645			0.00100	1.00		
3,3'-Dichlorobenzidine	Ave	0.3645			0.00100	2.00		
3-Nitroaniline	Ave	0.2915			0.000500	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 240-177779/20 Calibration Date: 04/24/2015 15:42

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424020.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromophenyl phenyl ether	Ave	0.2049			0.000500	1.00		
4-Chloro-3-methylphenol	Ave	0.4176			0.000500	1.00		
4-Chloroaniline	Ave	0.4667			0.000500	1.00		
4-Chlorophenyl phenyl ether	Ave	0.6472			0.000500	1.00		
4-Nitroaniline	Ave	0.2823			0.000500	1.00		
Acenaphthene	Ave	1.116			0.000100	1.00		
Acenaphthylene	Ave	1.715			0.000100	1.00		
Acetophenone	Ave	2.383			0.000500	1.00		
Aniline	Ave	2.967			0.00100	1.00		
Anthracene	Ave	1.050			0.000100	1.00		
Atrazine	Ave	0.2061			0.000500	2.00		
Benzaldehyde	Ave	1.670			0.000500	2.00		
Benzo[a]anthracene	Ave	1.124			0.000100	1.00		
Benzo[a]pyrene	Ave	1.151			0.000100	1.00		
Benzo[b]fluoranthene	Ave	1.205			0.000100	1.00		
Benzo[g,h,i]perylene	Ave	0.9662			0.000100	1.00		
Benzo[k]fluoranthene	Ave	1.214			0.000100	1.00		
Benzyl alcohol	Ave	1.126			0.000500	1.00		
bis (2-chloroisopropyl) ether	Ave	1.639			0.000500	1.00		
Bis(2-chloroethoxy)methane	Ave	0.5716			0.000500	1.00		
Bis(2-chloroethyl)ether	Ave	2.001			0.000100	1.00		
Bis(2-ethylhexyl) phthalate	Ave	0.6761			0.000500	1.00		
Butyl benzyl phthalate	Ave	0.5093			0.00500	1.00		
Caprolactam	Ave	0.1252			0.000500	2.00		
Carbazole	Ave	0.9379			0.000500	1.00		
Chrysene	Ave	1.027			0.000100	1.00		
Dibenz(a,h)anthracene	Ave	0.9613			0.000100	1.00		
Dibenzofuran	Ave	1.519			0.000100	1.00		
Diethyl phthalate	Ave	1.260			0.00100	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 240-177779/20 Calibration Date: 04/24/2015 15:42

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50424020.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.248			0.000500	1.00		
Di-n-butyl phthalate	Ave	1.175			0.00500	1.00		
Di-n-octyl phthalate	Ave	1.408			0.000500	1.00		
Fluoranthene	Ave	1.212			0.000100	1.00		
Fluorene	Ave	1.275			0.000100	1.00		
Hexachlorobenzene	Ave	0.2018			0.000100	1.00		
Hexachlorobutadiene	Ave	0.2201			0.000500	1.00		
Hexachloroethane	Ave	0.7281			0.000500	1.00		
Indene	Ave	2.818			0.00100	2.00		
Indeno[1,2,3-cd]pyrene	Ave	1.165			0.000100	1.00		
Isophorone	Ave	1.136			0.000500	1.00		
Naphthalene	Ave	1.069			0.000100	1.00		
Nitrobenzene	Ave	0.6722			0.000100	1.00		
N-Nitrosodimethylamine	Ave	1.417			0.000500	1.00		
N-Nitrosodi-n-propylamine	Ave	1.720			0.000500	1.00		
N-Nitrosodiphenylamine	Ave	0.5377			0.000500	2.00		
Phenanthrene	Ave	1.050			0.000100	1.00		
Phenol	Ave	2.388			0.00100	1.00		
Pyrene	Ave	1.096			0.000100	1.00		
Pyridine	Ave	2.280			0.000500	1.00		
2-Fluorophenol (Surr)	Ave	1.472			0.961	1.00	96	20-110
Phenol-d5 (Surr)	Ave	2.203			0.956	1.00	96	10-115
Nitrobenzene-d5 (Surr)	Ave	0.7281			0.957	1.00	96	40-110
2-Fluorobiphenyl (Surr)	Ave	1.345			0.998	1.00	100	50-110
2,4,6-Tribromophenol (Surr)	Ave	0.1481			0.930	1.00	93	40-125
Terphenyl-d14 (Surr)	Ave	0.8139			0.942	1.00	94	50-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424020.D
Lims ID: lodv l3
Client ID:
Sample Type: LODV
Inject. Date: 24-Apr-2015 15:42:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-020
Misc. Info.: LODV L3LODV L3
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 16:14:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.329	6.325	0.004	91	127108	4.00	4.00	
* 2 Naphthalene-d8	136	7.445	7.445	0.000	98	456874	4.00	4.00	
* 3 Acenaphthene-d10	164	8.950	8.950	0.000	93	269703	4.00	4.00	
* 4 Phenanthrene-d10	188	10.220	10.220	0.000	95	484365	4.00	4.00	
* 5 Chrysene-d12	240	12.509	12.504	0.005	97	558802	4.00	4.00	
* 6 Perylene-d12	264	14.249	14.245	0.004	98	476244	4.00	4.00	
$ 7 2-Fluorophenol	112	5.098	5.097	0.001	94	44972	1.00	0.9612	
$ 8 Phenol-d5	99	5.964	5.962	0.002	94	66937	1.00	0.9563	
$ 9 Nitrobenzene-d5	82	6.805	6.804	0.001	86	79622	1.00	0.9575	
$ 10 2-Fluorobiphenyl (Surr)	172	8.349	8.352	-0.003	99	90525	1.00	1.00	
$ 11 2,4,6-Tribromophenol	330	9.619	9.622	-0.003	80	9289	1.00	0.9301	
$ 12 Terphenyl-d14	244	11.542	11.545	-0.003	99	107075	1.00	0.9417	
25 1,4-Dioxane	88		2.875				ND	ND	
26 N-Nitrosodimethylamine	74		3.404				ND	ND	
27 Pyridine	79		3.466				ND	ND	
20 Dimethylformamide	73		3.978					ND	
28 Ethyl methacrylate	69		4.089					ND	
31 2-Picoline	93		4.464					ND	
32 N-Nitrosomethylethylamine	88		4.579					ND	
35 Acrylamide	71		4.853					ND	
34 Methyl methanesulfonate	80		4.897					ND	
233 n,n'-Dimethylacetamide	44		4.993					ND	
36 N-Nitrosodiethylamine	102		5.320					ND	
37 Ethyl methanesulfonate	79		5.589					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.820					ND	
39 3-Methylcyclohexanone	69		5.854					ND	
40 4-Methylcyclohexanone	55		5.902					ND	
41 Benzaldehyde	77		5.928				ND	ND	
43 Phenol	94		5.977				ND	ND	
44 Aniline	93		6.025				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.063				ND	ND	
45 Pentachloroethane	167		6.080					ND	
46 2-Chlorophenol	128		6.140				ND	ND	
243 n-Decane	57		6.174				ND	ND	
47 1,3-Dichlorobenzene	146		6.284				ND	ND	
48 1,4-Dichlorobenzene	146		6.342				ND	ND	
232 1-Methyl-2-pyrrilidinone	99		6.421					ND	
49 Benzyl alcohol	108		6.429				ND	ND	
50 1,2-Dichlorobenzene	146		6.486				ND	ND	
51 2-Methylphenol	108		6.515				ND	ND	
53 2,2'-oxybis[1-chloropropan	45		6.549				ND	ND	
52 Indene	115		6.563				ND	ND	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
56 N-Nitrosopyrrolidine	100		6.633					ND	
21 3 & 4 Methylphenol	108		6.645				ND	ND	
57 N-Nitrosodi-n-propylamine	70		6.659				ND	ND	
59 N-Nitrosomorpholine	56		6.661					ND	
58 Acetophenone	105		6.669				ND	ND	
60 2-Toluidine	106		6.700					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
61 Hexachloroethane	117		6.794				ND	ND	
62 Nitrobenzene	77		6.823				ND	ND	
63 N-Nitrosopiperidine	114		6.945					ND	
64 Isophorone	82		7.025				ND	ND	
66 2-Nitrophenol	139		7.102				ND	ND	
65 2,4-Dimethylphenol	107		7.111				ND	ND	
67 1,3,5-Trichlorobenzene	180		7.123					ND	
68 o,o',o''-Triethylphosphoro	198		7.162					ND	
71 Benzoic acid	122	7.132	7.174	-0.042	82	13797	2.00	1.94	M
70 Bis(2-chloroethoxy)methane	93		7.188				ND	ND	
72 alpha,alpha-Dimethyl phene	58		7.277					ND	
73 2,4-Dichlorophenol	162		7.309				ND	ND	
74 1,2,4-Trichlorobenzene	180		7.390				ND	ND	
75 Naphthalene	128		7.467				ND	ND	
76 4-Chloroaniline	127		7.487				ND	ND	
77 2,6-Dichlorophenol	162		7.501				ND	ND	
78 Hexachloropropene	213		7.546					ND	
79 Hexachlorobutadiene	225		7.568				ND	ND	
80 1,2,3-Trichlorobenzene	180		7.590					ND	
81 Benzothiazole	135		7.676					ND	
82 Quinoline	129		7.739					ND	
83 N-Nitrosodi-n-butylamine	84		7.753					ND	
84 Caprolactam	113		7.770				ND	ND	
85 p-Phenylene diamine	108		7.777					ND	
86 4-Chloro-3-methylphenol	107		7.881				ND	ND	
94 Safrole, Total	162		7.955					ND	
87 2-Methylnaphthalene	142		8.054				ND	ND	
88 1-Methylnaphthalene	142		8.141				ND	ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.191					ND	
89 Hexachlorocyclopentadiene	237	8.195	8.198	-0.003	85	9057	1.00	0.3593	
225 Isosafrole Peak 1	162		8.200					ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.203				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.285				ND	ND	
93 2,4,5-Trichlorophenol	196		8.318				ND	ND	
227 Isosafrole Peak 2	162		8.393					ND	
97 2,4-Toluene diamine	121		8.412					ND	
98 1,1'-Biphenyl	154		8.443				ND	ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.446					ND	
96 3,4-Dichloronitrobenzene	109		8.465					ND	
100 2-Chloronaphthalene	162		8.472				ND	ND	
246 1-Chloronaphthalene	162		8.498					ND	
101 Phenyl ether	170		8.523					ND	
102 2-Nitroaniline	65		8.535				ND	ND	
103 1,4-Naphthoquinone	158		8.604					ND	
104 1,4-Dinitrobenzene	168		8.628					ND	
105 Dimethyl phthalate	163		8.670				ND	ND	
106 1,3-Dinitrobenzene	168		8.703				ND	ND	
107 2,6-Dinitrotoluene	165		8.727				ND	ND	
109 Acenaphthylene	152		8.833				ND	ND	
110 3-Nitroaniline	138		8.881				ND	ND	
111 2,4-Dinitrophenol	184	8.965	8.968	-0.003	21	2555	2.00		2.42
112 Acenaphthene	153		8.982				ND	ND	
113 4-Nitrophenol	109	8.989	8.992	-0.003	84	33564	2.00		1.80
114 2,4-Dinitrotoluene	165		9.073				ND	ND	
115 Pentachlorobenzene	250		9.095					ND	
116 Dibenzofuran	168		9.126				ND	ND	
117 1-Naphthylamine	143		9.176					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.181					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.223				ND	ND	
120 2-Naphthylamine	143		9.244					ND	
121 Diethyl phthalate	149		9.261				ND	ND	
247 Hexadecane	57		9.266				ND	ND	
122 Thionazin	97		9.330					ND	
123 4-Chlorophenyl phenyl ethe	204		9.391				ND	ND	
124 N-Nitro-o-toluidine	152		9.398					ND	
125 4-Nitroaniline	138		9.400				ND	ND	
127 Tributyl phosphate	99		9.417					ND	
126 Fluorene	166		9.420				ND	ND	
128 4,6-Dinitro-2-methylphenol	198	9.426	9.429	-0.003	90	8085	2.00		1.15
130 Diphenylamine	169		9.484					ND	
131 N-Nitrosodiphenylamine	169		9.487				ND	ND	
297 Benzophenone	105		9.512					ND	
132 1,2-Diphenylhydrazine	77		9.530				1.00	ND	
133 Azobenzene	77		9.530				ND	ND	
134 Sulfotepp	202		9.585					ND	
135 1,3,5-Trinitrobenzene	213		9.662					ND	
137 Phenacetin	108		9.715					ND	
228 Diallate Peak 1	86		9.720					ND	
138 Phorate	121		9.729					ND	
230 Diallate Peak 2	86		9.802					ND	
139 4-Bromophenyl phenyl ether	248		9.809				ND	ND	
140 Dimethoate	87		9.869					ND	
141 Hexachlorobenzene	284		9.901				ND	ND	
142 Atrazine	200		9.910				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.028					ND	
244 n-Octadecane	57		10.045				ND	ND	
144 Pronamide	173		10.052					ND	
143 Pentachlorophenol	266	10.051	10.054	-0.003	85	21621	2.00	1.69	
145 Pentachloronitrobenzene	237		10.066					ND	
146 Disulfoton	88		10.167					ND	
147 Dinoseb	211		10.181					ND	
148 Phenanthrene	178		10.242				ND	ND	
149 Anthracene	178		10.285				ND	ND	
151 Carbazole	167		10.401				ND	ND	
152 Methyl parathion	109		10.494					ND	
154 Di-n-butyl phthalate	149		10.641				ND	ND	
153 Diphenylsulfone	125		10.672					ND	
155 Ethyl Parathion	97		10.816					ND	
156 4-Nitroquinoline-1-oxide	190		10.874					ND	
157 Methapyrilene	58		10.917					ND	
158 Isodrin	66		11.138					ND	
159 Fluoranthene	202		11.261				ND	ND	
160 Benzidine	184	11.326	11.329	-0.003	98	94077	2.00	1.16	
161 Pyrene	202		11.463				ND	ND	
226 Aramite Peak 1	185		11.489					ND	
229 Aramite Peak 2	185		11.547					ND	
163 p-Dimethylamino azobenzene	225		11.658					ND	
164 Chlorobenzilate	139		11.682					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.889					ND	
168 Butyl benzyl phthalate	149		11.925				ND	ND	
169 3,3'-Dimethylbenzidine	212		11.937					ND	
171 2-Acetylaminofluorene	181		12.163					ND	
172 3,3'-Dimethoxybenzidine	244		12.379					ND	
173 Bis(2-ethylhexyl) phthalat	149		12.406				ND	ND	
174 4,4'-Methylene bis(2-chlor	231		12.418					ND	
175 3,3'-Dichlorobenzidine	252		12.435				ND	ND	
177 Benzo[a]anthracene	228		12.497				ND	ND	
178 Chrysene	228		12.536				ND	ND	
176 Hexabromobenzene	232		12.543					ND	
179 6-Methylchrysene	242		12.995					ND	
180 Di-n-octyl phthalate	149		13.055				ND	ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.677					ND	
182 Benzo[b]fluoranthene	252		13.709				ND	ND	
183 Benzo[k]fluoranthene	252		13.748				ND	ND	
184 Benzo[a]pyrene	252		14.176				ND	ND	
185 3-Methylcholanthrene	268		14.692					ND	
187 Dibenz[a,h]acridine	279		15.649					ND	
186 Dibenz[a,j]acridine	279		15.746					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.152				ND	ND	
189 Dibenz(a,h)anthracene	278		16.162				ND	ND	
190 Benzo[g,h,i]perylene	276		16.739				ND	ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
275 Dieldrin	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
270 Toxaphene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
268 Endrin	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.491					ND	
165 4,4'-DDD	235		11.775					ND	
170 4,4'-DDT	235		12.039					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110		5.000					ND	
T 194 Decane TIC	142		5.800					ND	
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121		7.250					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121		7.364					ND	
T 236 3-isopropylphenol TIC	121		7.364					ND	
T 237 3-(1,1-Dimethylethyl Pheno	135		7.720					ND	
T 231 2,3,7,8-TCDD	322		8.240					ND	
T 195 Hydroquinone TIC	110		9.000					ND	
T 192 Octadecane (TIC)	254		9.600					ND	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326		12.000					ND	
T 280 2,3,7,8-TCDD TIC	198		12.500					ND	
T 241 Tricresyl phosphate TIC	368		12.500					ND	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201		14.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L3 W_00005 Amount Added: 1.00 Units: mL

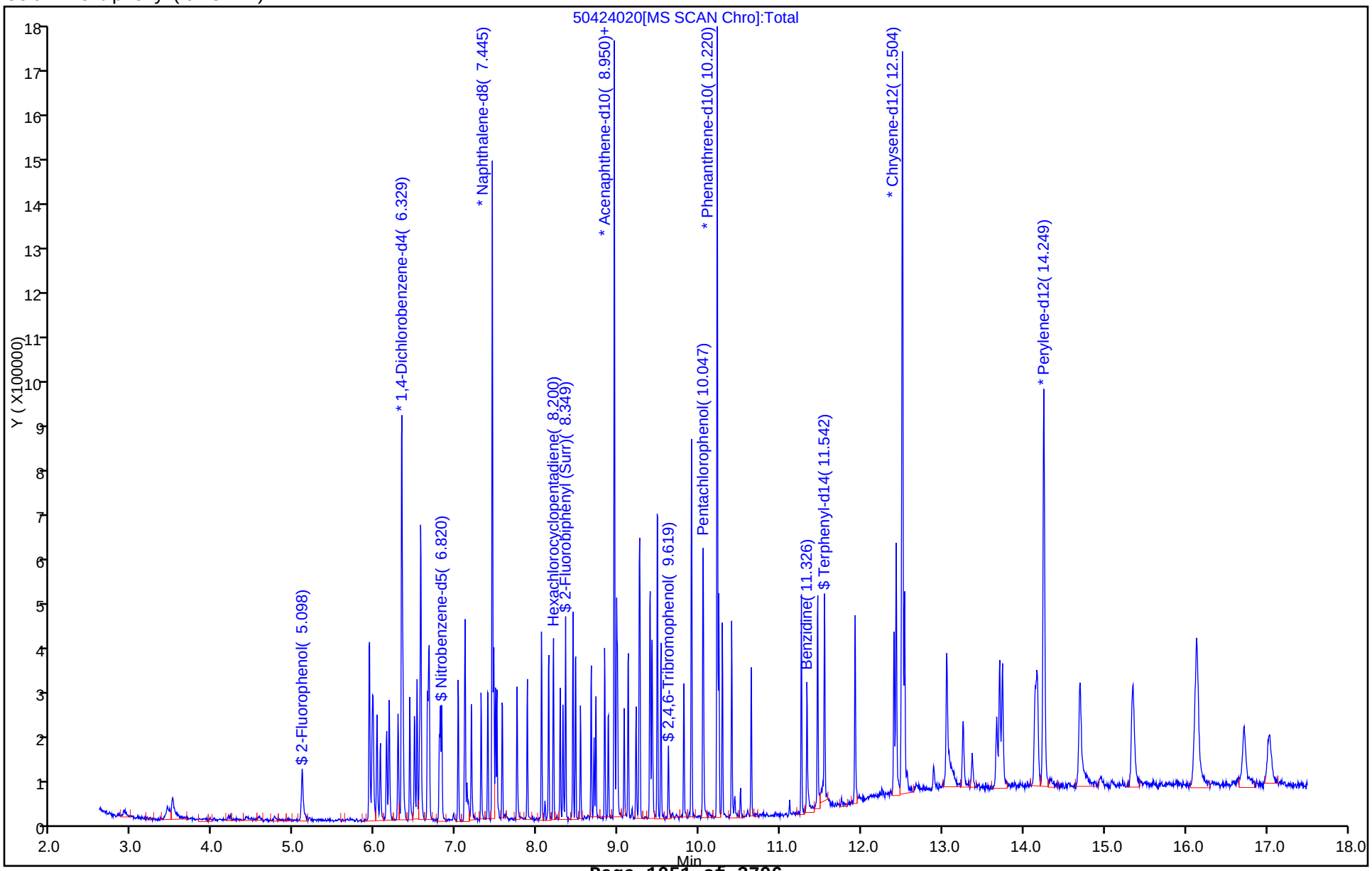
Report Date: 27-Apr-2015 09:33:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424020.D

Injection Date:	24-Apr-2015 15:42:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	lodv l3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

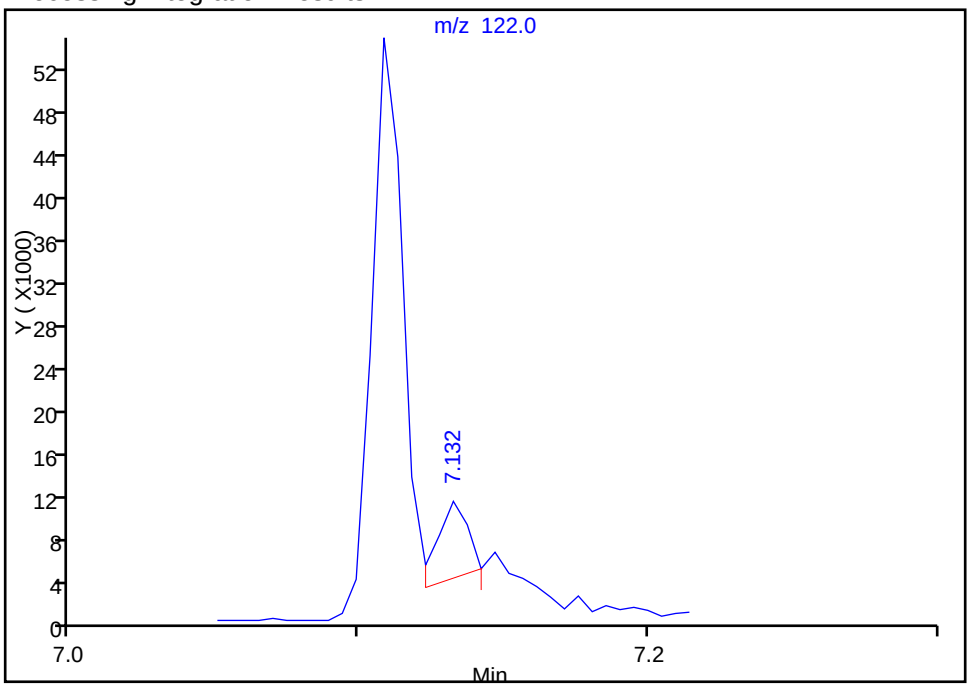
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424020.D
Injection Date: 24-Apr-2015 15:42:30 Instrument ID: A4HP9
Lims ID: lodv l3
Client ID:
Operator ID: 001574 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

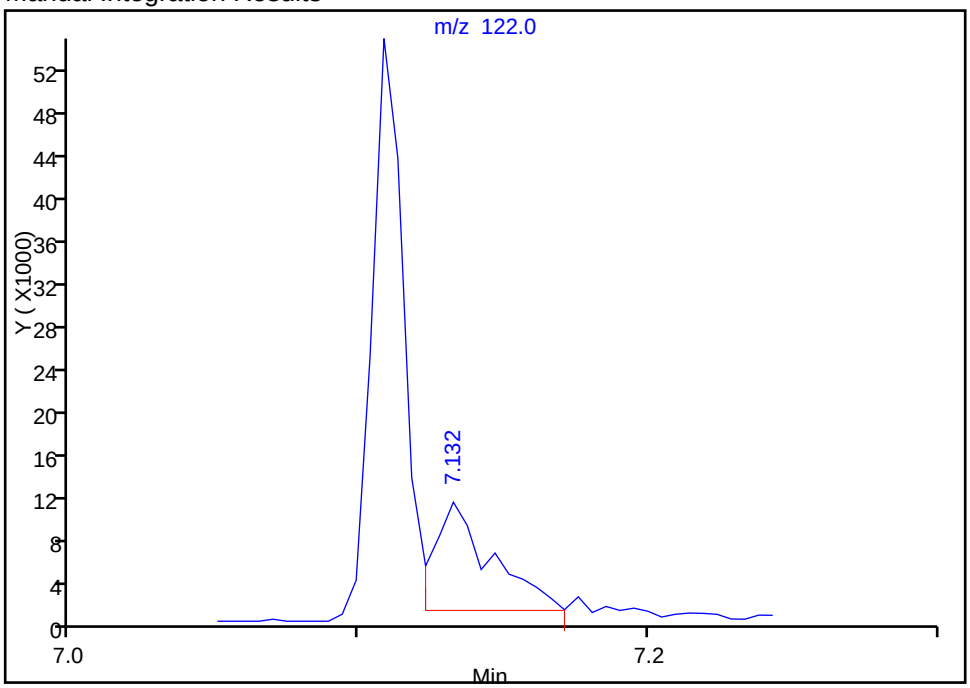
Processing Integration Results

RT: 7.13
Area: 5255
Amount: 1.635047
Amount Units: ng/ul



Manual Integration Results

RT: 7.13
Area: 13797
Amount: 1.944266
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 16:14:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 20-Apr-2015 08:28:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: dftpp,50420a.b,dftpp390
Misc. Info.: CCV TCLCCV TCL
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:46 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 08:48:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
143 Pentachlorophenol	266	10.105	10.105	0.000	88	377121	NR	NR	7
160 Benzidine	184	11.389	11.389	0.000	98	2410226	NR	NR	7
150 DFTPP									
166 4,4'-DDE	246	11.552	11.552	0.000	15	968		NR	7
165 4,4'-DDD	235	11.836	11.836	0.000	90	9762		NR	7
170 4,4'-DDT	235	12.096	12.096	0.000	97	1198979	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

SMDFTPPW_00010 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D

Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9

Lims ID: dftpp

Client ID:

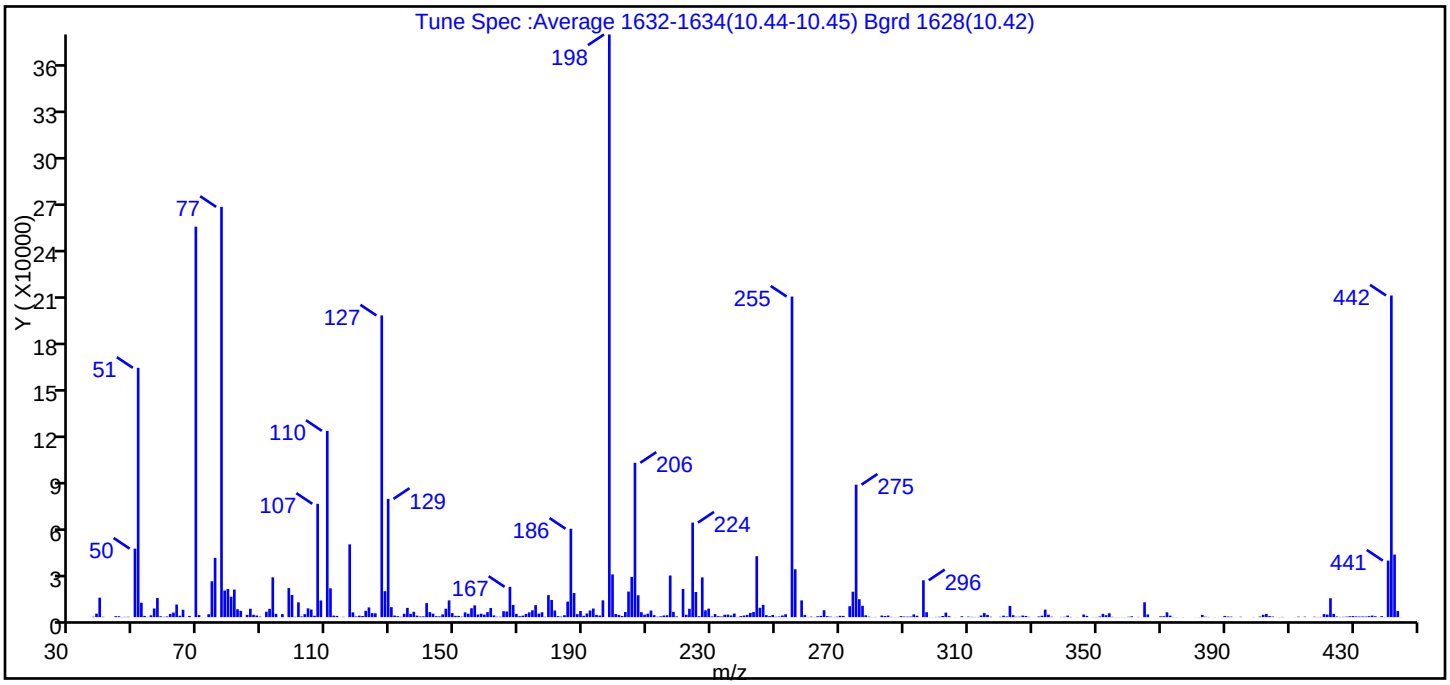
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

Tune Method: DFTPP Method CLP OLM4.2

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	42.8
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	67.0
70	Less than 2.0 percent of mass 69	0.3 (0.5)
127	25.0 - 75.0 percent of mass 198	51.8
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	7.3
275	10.0 - 30.0 percent of mass 198	22.7
365	Greater than 0.75 percent of mass 198	2.5
441	Present but less than mass 443	9.7 (90.4)
442	40.0 - 110.0 percent of mass 198	55.2
443	15.0 - 24.0 percent of mass 442	10.7 (19.4)

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D\8270 _9.rslt\spectra.d
Injection Date: 20-Apr-2015 08:28:30
Spectrum: Tune Spec :Average 1632-1634(10.44-10.45) Bgrd 1628(10.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	31	137.00	3486	228.00	4428	327.00	1049
37.00	289	138.00	985	229.00	5522	328.00	753
38.00	2285	139.00	446	230.00	462	329.00	205
39.00	12653	140.00	534	231.00	1981	332.00	436
40.00	257	141.00	9155	232.00	653	333.00	923
42.00	29	142.00	3263	233.00	456	334.00	4889
44.00	624	143.00	2254	234.00	1553	335.00	1557
45.00	580	144.00	612	235.00	1665	336.00	281
46.00	81	145.00	521	236.00	1111	339.00	150
47.00	197	146.00	1773	237.00	2329	340.00	224
48.00	248	147.00	5475	238.00	163	341.00	1033
50.00	44528	148.00	10897	239.00	664	342.00	171
51.00	162048	149.00	2610	240.00	1038	344.00	88
52.00	9366	150.00	850	241.00	1413	346.00	1684
53.00	788	151.00	835	242.00	2755	347.00	829
54.00	152	152.00	303	243.00	3350	349.00	83
55.00	1184	153.00	3080	244.00	39640	350.00	96
56.00	5608	154.00	2229	245.00	6080	351.00	418
57.00	12424	155.00	5793	246.00	7985	352.00	2145
58.00	567	156.00	7652	247.00	1300	353.00	1245
59.00	192	157.00	1698	248.00	671	354.00	2510
60.00	450	158.00	2234	249.00	1385	355.00	203
61.00	2104	159.00	1642	250.00	254	356.00	72
62.00	2977	160.00	3266	251.00	413	357.00	79
63.00	8221	161.00	5934	252.00	1050	358.00	65
64.00	924	162.00	1129	253.00	1879	359.00	61
65.00	4776	163.00	270	255.00	208384	360.00	248
66.00	103	164.00	248	256.00	31112	361.00	542
67.00	787	165.00	3851	258.00	10889	363.00	165
69.00	253824	166.00	3693	259.00	1368	365.00	9647
70.00	1314	167.00	19688	260.00	151	366.00	1730
71.00	51	168.00	7880	261.00	295	370.00	530
72.00	69	169.00	2124	262.00	123	371.00	600

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D\8270 _9.rslt\spectra.d
Injection Date: 20-Apr-2015 08:28:30
Spectrum: Tune Spec :Average 1632-1634(10.44-10.45) Bgrd 1628(10.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1893	170.00	643	263.00	567	372.00	3153
74.00	23312	171.00	972	264.00	849	373.00	958
75.00	38536	172.00	2058	265.00	4516	374.00	117
77.00	266688	173.00	3117	266.00	628	375.00	90
78.00	17312	174.00	4448	267.00	322	377.00	71
79.00	18272	175.00	7804	268.00	122	381.00	66
80.00	13263	176.00	2284	269.00	284	382.00	61
81.00	17928	177.00	3177	270.00	861	383.00	1391
82.00	5123	178.00	208	271.00	809	384.00	292
83.00	4111	179.00	14321	273.00	7127	385.00	138
85.00	1483	180.00	11162	274.00	16552	387.00	54
86.00	5464	181.00	4303	275.00	86096	390.00	795
87.00	1525	182.00	669	276.00	11635	391.00	417
88.00	1041	183.00	330	277.00	7378	392.00	349
89.00	372	184.00	1257	278.00	1206	393.00	57
91.00	3516	185.00	10088	279.00	324	395.00	245
92.00	5395	186.00	57472	280.00	65	399.00	80
93.00	25888	187.00	15695	281.00	129	401.00	385
94.00	2129	188.00	1954	283.00	1034	402.00	1533
96.00	1989	189.00	3974	284.00	728	403.00	2115
98.00	18896	190.00	888	285.00	1022	404.00	683
99.00	14426	191.00	2379	286.00	169	405.00	384
100.00	208	192.00	4322	287.00	74	407.00	98
101.00	9629	193.00	5595	288.00	102	408.00	173
102.00	473	194.00	1460	289.00	684	412.00	54
103.00	1945	195.00	1027	290.00	391	413.00	291
104.00	5719	196.00	10926	291.00	326	415.00	312
105.00	4957	198.00	378752	292.00	369	418.00	259
106.00	888	199.00	27752	293.00	1772	419.00	146
107.00	73664	200.00	2030	294.00	893	420.00	183
108.00	10852	201.00	1425	296.00	23976	421.00	1997
110.00	121080	202.00	765	297.00	3200	422.00	1688
111.00	18744	203.00	3333	298.00	59	423.00	12270
112.00	1010	204.00	16648	299.00	54	424.00	2149

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D\8270 _9.rslt\spectra.d
Injection Date: 20-Apr-2015 08:28:30
Spectrum: Tune Spec :Average 1632-1634(10.44-10.45) Bgrd 1628(10.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	795	205.00	26144	300.00	165	425.00	411
114.00	19	206.00	100328	301.00	237	426.00	145
115.00	201	207.00	14208	302.00	744	427.00	213
117.00	47296	208.00	3230	303.00	2928	428.00	325
118.00	3119	209.00	1580	304.00	626	429.00	587
119.00	450	210.00	2248	306.00	53	430.00	691
120.00	977	211.00	4298	308.00	597	431.00	478
121.00	749	212.00	1275	310.00	349	432.00	373
122.00	4121	213.00	271	311.00	206	433.00	420
123.00	6334	214.00	535	312.00	143	434.00	370
124.00	2600	215.00	1065	313.00	139	435.00	649
125.00	2486	216.00	1232	314.00	1071	436.00	1020
127.00	196096	217.00	27072	315.00	2645	437.00	588
128.00	16864	218.00	3423	316.00	1470	438.00	120
129.00	76872	219.00	489	317.00	275	439.00	662
130.00	6486	221.00	18352	320.00	208	440.00	107
131.00	1023	222.00	1531	321.00	945	441.00	36736
132.00	636	223.00	5426	322.00	407	442.00	209088
133.00	237	224.00	61464	323.00	7310	443.00	40656
134.00	2212	225.00	16338	324.00	1281	444.00	3980
135.00	6018	226.00	638	325.00	249	445.00	57
136.00	2131	227.00	25848	326.00	286		

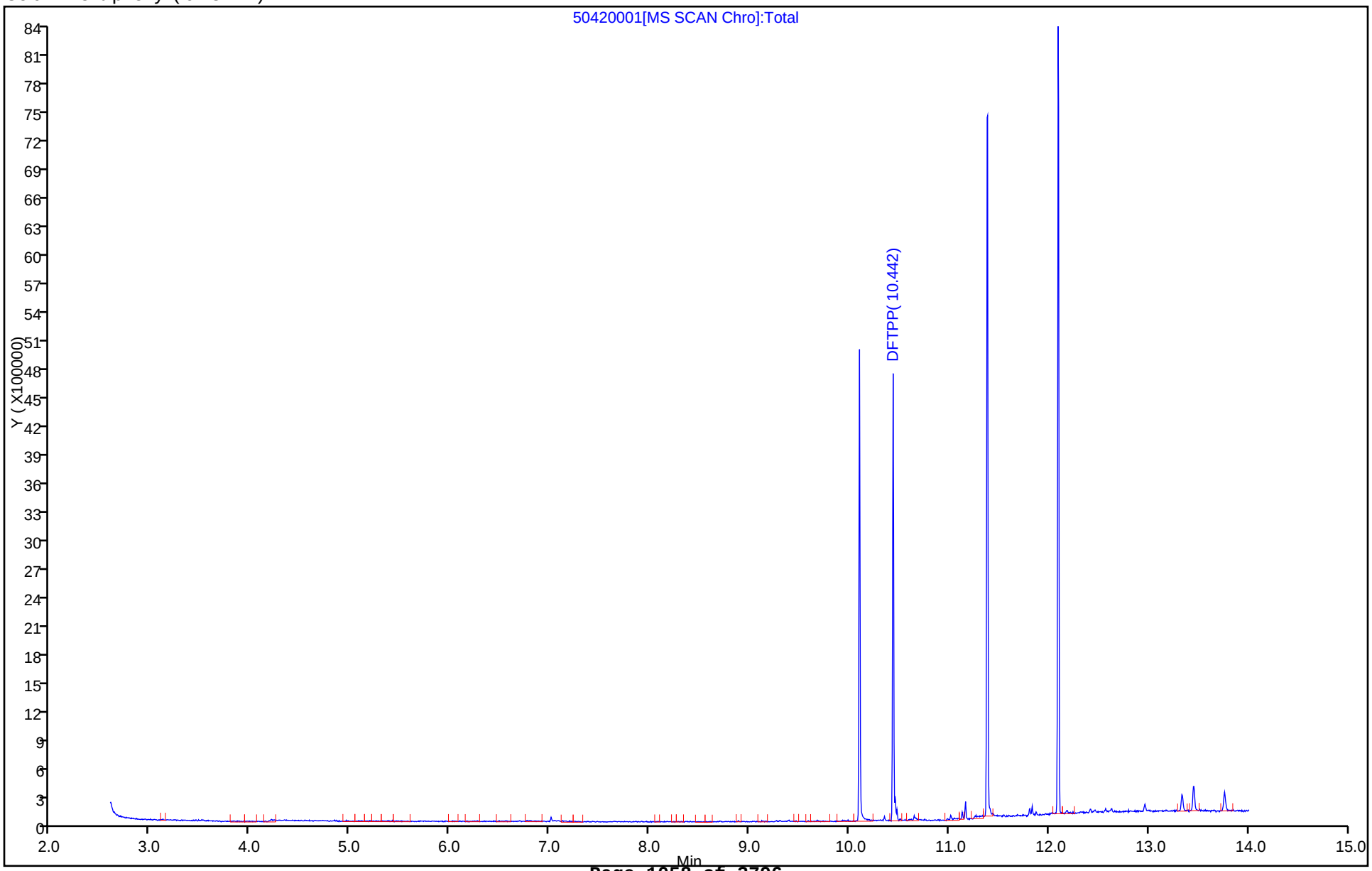
Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D

Injection Date:	20-Apr-2015 08:28:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Breakdown Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D

Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9

Lims ID: dftpp

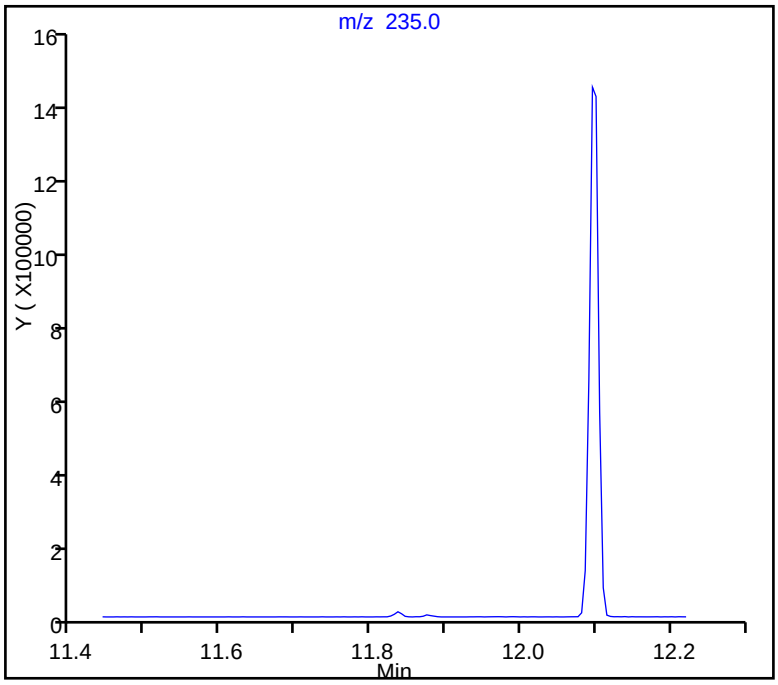
Client ID:

Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

170 4,4'-DDT, Area = 1198979
165 4,4'-DDD, Area = 9762
166 4,4'-DDE, Area = 968

%Breakdown: 0.89%, Max Limit: 20.00%
Passed

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Peak Tailing Report

TestAmerica Canton

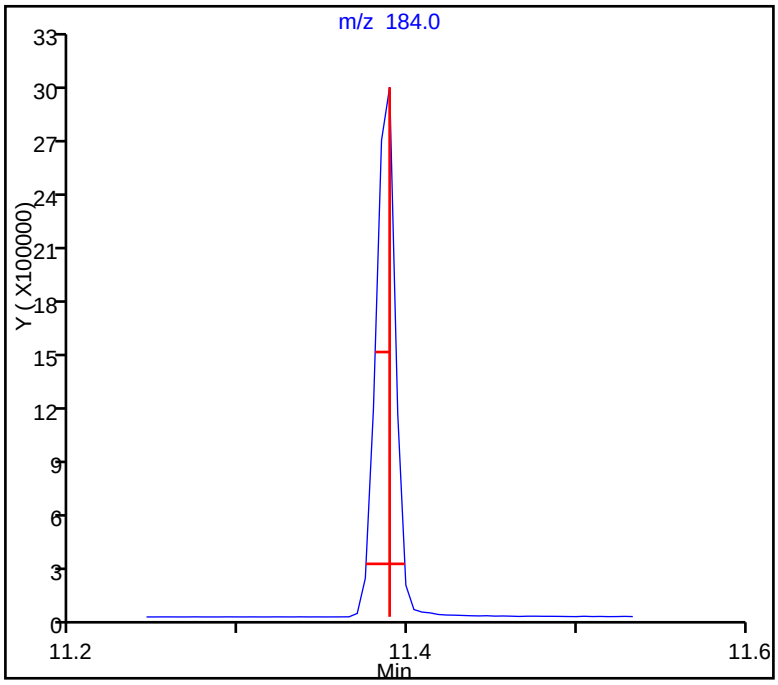
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D
Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

160 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.6, Max. Tailing < 2.00
Passed



Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Peak Tailing Report

TestAmerica Canton

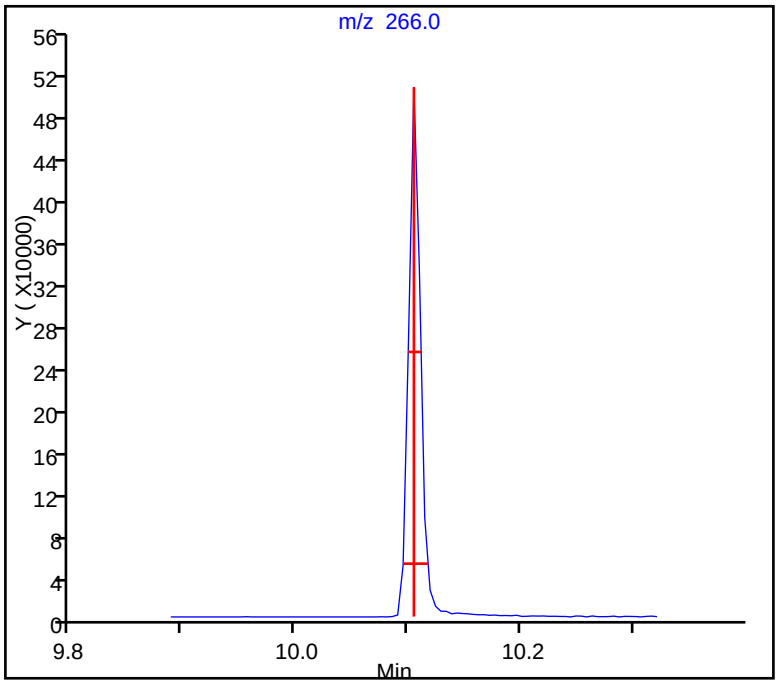
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D
Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

143 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 24-Apr-2015 07:43:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-001
Misc. Info.: DFTPPDFTPP
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:25 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 08:12:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
143 Pentachlorophenol	266	10.049	10.049	0.000	89	497611	NR	NR	7
160 Benzidine	184	11.328	11.328	0.000	99	2778047	NR	NR	7
150 DFTPP									
166 4,4'-DDE	246	11.491	11.491	0.000	25	1246		NR	7
165 4,4'-DDD	235	11.775	11.775	0.000	91	9188		NR	7
170 4,4'-DDT	235	12.039	12.039	0.000	98	1500326	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

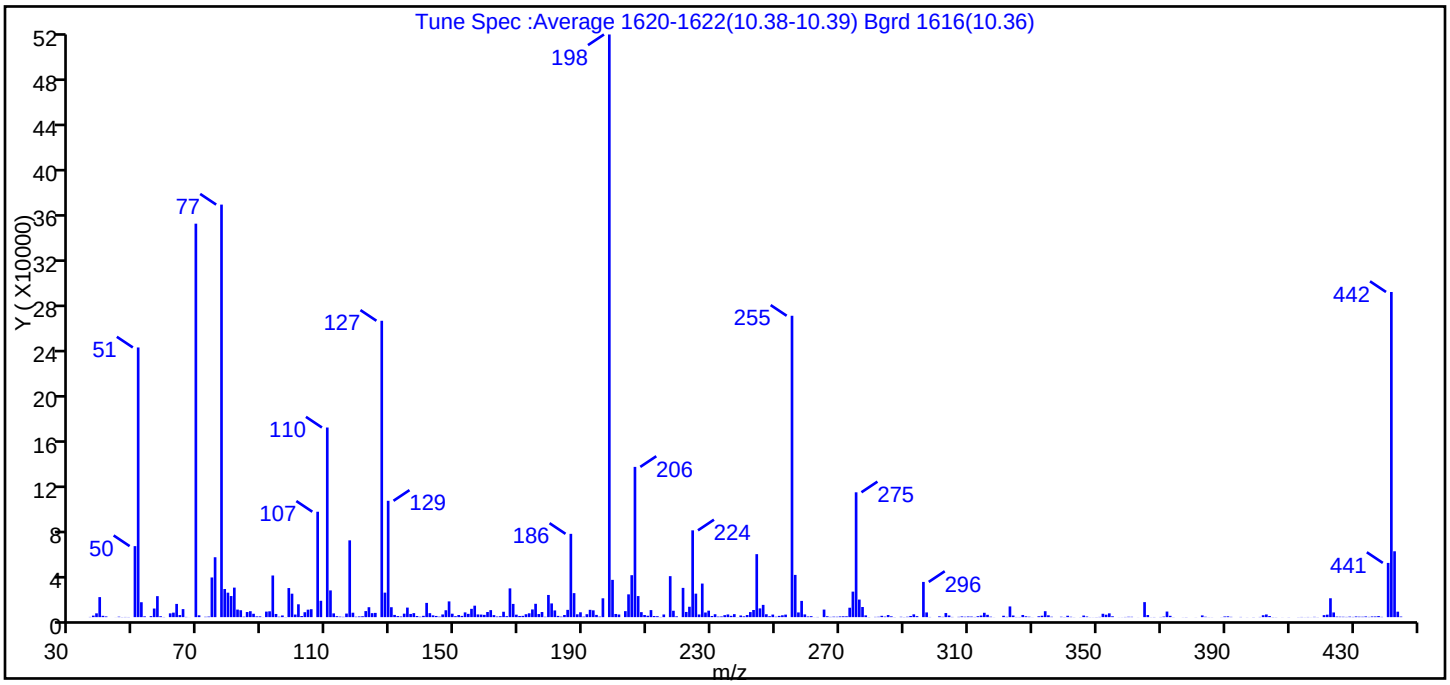
SMDFTPPW_00010 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D
Injection Date: 24-Apr-2015 07:43:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Tune Method: DFTPP Method CLP OLM4.2

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	46.3
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	67.5
70	Less than 2.0 percent of mass 69	0.3 (0.5)
127	25.0 - 75.0 percent of mass 198	50.9
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	6.4
275	10.0 - 30.0 percent of mass 198	21.4
365	Greater than 0.75 percent of mass 198	2.6
441	Present but less than mass 443	9.3 (82.3)
442	40.0 - 110.0 percent of mass 198	55.8
443	15.0 - 24.0 percent of mass 442	11.3 (20.3)

Report Date: 27-Apr-2015 09:33:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D\8270 _9.rslt\spectra.d
Injection Date: 24-Apr-2015 07:43:30
Spectrum: Tune Spec :Average 1620-1622(10.38-10.39) Bgrd 1616(10.36)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	185	136.00	2831	230.00	1026	330.00	72
37.00	1352	137.00	3541	231.00	2575	332.00	771
38.00	3376	138.00	963	232.00	495	333.00	1258
39.00	17680	139.00	331	233.00	617	334.00	5241
40.00	1179	140.00	1165	234.00	1758	335.00	1614
41.00	634	141.00	12576	235.00	2385	336.00	359
44.00	43	142.00	3514	236.00	1176	339.00	348
45.00	402	143.00	1565	237.00	2653	340.00	132
46.00	121	144.00	1053	238.00	83	341.00	1236
47.00	162	145.00	433	239.00	1459	342.00	309
48.00	140	146.00	2374	240.00	698	343.00	82
50.00	62680	147.00	6088	241.00	1865	345.00	83
51.00	238016	148.00	13902	242.00	4465	346.00	1412
52.00	13164	149.00	3038	243.00	6322	347.00	556
53.00	685	150.00	840	244.00	55592	348.00	87
55.00	892	151.00	1864	245.00	7721	349.00	69
56.00	7595	152.00	1113	246.00	10822	350.00	125
57.00	18536	153.00	4189	247.00	2549	351.00	208
58.00	795	154.00	2890	248.00	817	352.00	2980
59.00	146	155.00	7333	249.00	2271	353.00	2164
60.00	4	156.00	10123	250.00	363	354.00	3353
61.00	3351	157.00	2394	251.00	1121	355.00	761
62.00	3976	158.00	2266	252.00	1640	357.00	53
63.00	11673	159.00	2011	253.00	2231	358.00	66
64.00	1815	160.00	4526	255.00	265984	359.00	168
65.00	7093	161.00	6184	256.00	37280	360.00	337
66.00	193	162.00	1775	257.00	4145	361.00	299
67.00	45	163.00	552	258.00	14335	363.00	51
69.00	347264	164.00	807	259.00	2422	365.00	13260
70.00	1607	165.00	4758	260.00	600	366.00	1852
72.00	324	166.00	847	261.00	846	367.00	79
73.00	502	167.00	25392	262.00	61	368.00	139
74.00	35024	168.00	11677	263.00	170	370.00	165

Report Date: 27-Apr-2015 09:33:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D\8270 _9.rslt\spectra.d
Injection Date: 24-Apr-2015 07:43:30
Spectrum: Tune Spec :Average 1620-1622(10.38-10.39) Bgrd 1616(10.36)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	52864	169.00	2178	265.00	6685	371.00	494
77.00	364096	170.00	1029	266.00	774	372.00	4944
78.00	24824	171.00	1145	267.00	230	373.00	1166
79.00	21592	172.00	2577	268.00	419	374.00	97
80.00	18616	173.00	3392	269.00	340	377.00	68
81.00	26064	174.00	6802	270.00	624	378.00	119
82.00	6672	175.00	11779	271.00	745	381.00	59
83.00	6103	176.00	2746	272.00	737	383.00	1531
84.00	422	177.00	4533	273.00	8313	384.00	357
85.00	4512	178.00	323	274.00	22528	385.00	81
86.00	5234	179.00	19576	275.00	110184	386.00	74
87.00	2975	180.00	12114	276.00	15501	389.00	66
88.00	657	181.00	5924	277.00	8934	390.00	589
89.00	670	182.00	1109	278.00	1569	391.00	725
90.00	67	183.00	442	279.00	131	392.00	259
91.00	4896	184.00	1901	281.00	236	395.00	179
92.00	5148	185.00	6428	282.00	338	397.00	70
93.00	36760	186.00	73520	283.00	1177	399.00	119
94.00	2805	187.00	21192	284.00	463	401.00	185
95.00	372	188.00	2514	285.00	1866	402.00	1688
96.00	1473	189.00	4294	286.00	701	403.00	2364
97.00	113	190.00	436	287.00	110	404.00	976
98.00	25672	191.00	2592	289.00	317	405.00	126
99.00	20704	192.00	6462	290.00	132	406.00	100
100.00	2294	193.00	6013	291.00	345	408.00	58
101.00	11350	194.00	1979	292.00	1031	410.00	100
102.00	992	195.00	480	293.00	2469	413.00	93
103.00	4339	196.00	16632	294.00	873	414.00	167
104.00	6592	198.00	514240	296.00	31088	415.00	72
105.00	7011	199.00	32912	297.00	4159	416.00	163
107.00	93032	200.00	2800	298.00	161	417.00	53
108.00	14446	201.00	2320	301.00	688	418.00	252
110.00	167360	203.00	5296	302.00	269	419.00	96
111.00	23600	204.00	20120	303.00	3614	421.00	1775

Report Date: 27-Apr-2015 09:33:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D\8270 _9.rslt\spectra.d
Injection Date: 24-Apr-2015 07:43:30
Spectrum: Tune Spec :Average 1620-1622(10.38-10.39) Bgrd 1616(10.36)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	3325	205.00	37016	304.00	1441	422.00	2186
113.00	852	206.00	132608	305.00	191	423.00	16672
114.00	454	207.00	18600	307.00	260	424.00	4143
115.00	279	208.00	4410	308.00	618	425.00	468
116.00	3170	209.00	1883	309.00	342	426.00	369
117.00	67776	210.00	1224	310.00	575	427.00	332
118.00	3907	211.00	6214	311.00	500	428.00	205
119.00	377	212.00	973	312.00	165	429.00	462
120.00	631	213.00	829	313.00	836	430.00	207
121.00	807	214.00	161	314.00	1400	431.00	616
122.00	5342	215.00	2350	315.00	3848	432.00	415
123.00	8766	217.00	36176	316.00	2049	433.00	364
124.00	3540	218.00	5627	317.00	390	434.00	631
125.00	3745	219.00	698	318.00	70	435.00	222
127.00	261568	221.00	25824	321.00	1228	436.00	606
128.00	21624	222.00	4579	322.00	279	437.00	580
129.00	102688	223.00	9173	323.00	9456	438.00	919
130.00	8761	224.00	76608	324.00	1425	439.00	243
131.00	1968	225.00	20736	325.00	168	441.00	47856
132.00	952	226.00	2358	326.00	149	442.00	286976
133.00	554	227.00	29640	327.00	1906	443.00	58128
134.00	3062	228.00	4094	328.00	732	444.00	4825
135.00	8426	229.00	5723	329.00	374	445.00	507

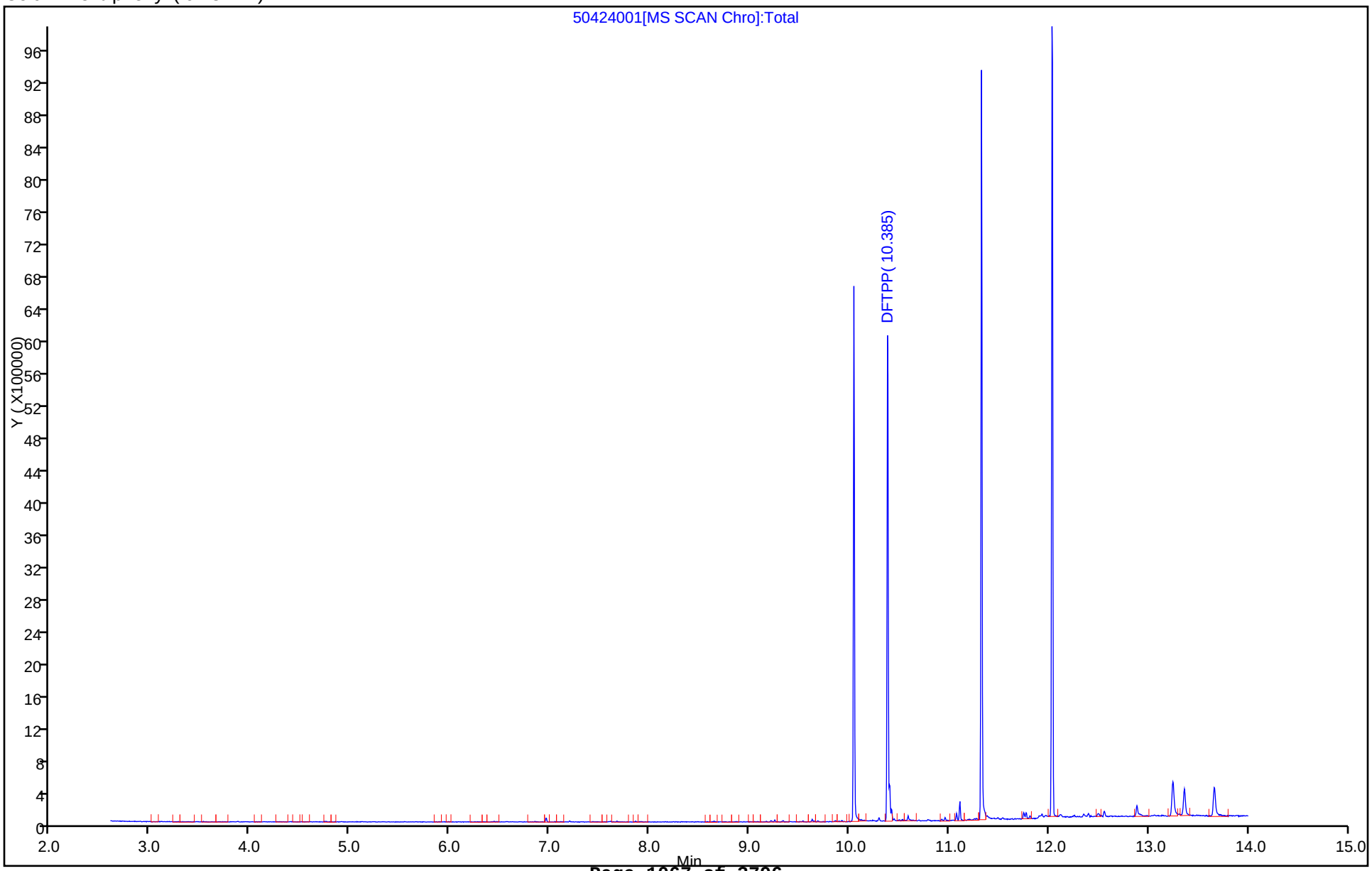
Report Date: 27-Apr-2015 09:33:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D

Injection Date:	24-Apr-2015 07:43:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



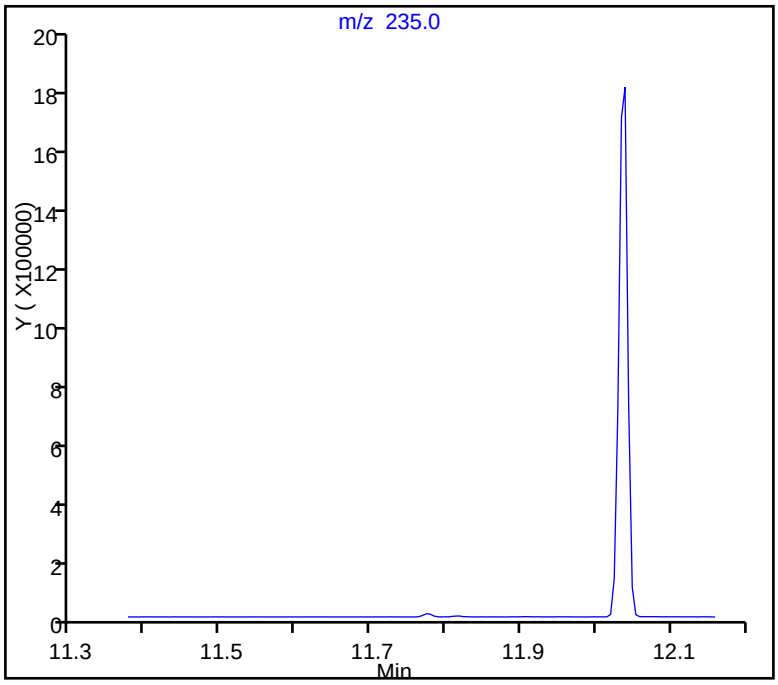
Report Date: 27-Apr-2015 09:33:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Breakdown Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D				
Injection Date:	24-Apr-2015 07:43:30	Instrument ID:	A4HP9		
Lims ID:	dftpp				
Client ID:					
Operator ID:	001574	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

170 4,4'-DDT, Area = 1500326
165 4,4'-DDD, Area = 9188
166 4,4'-DDE, Area = 1246

%Breakdown: 0.69%, Max Limit: 20.00%
Passed

Report Date: 27-Apr-2015 09:33:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Peak Tailing Report

TestAmerica Canton

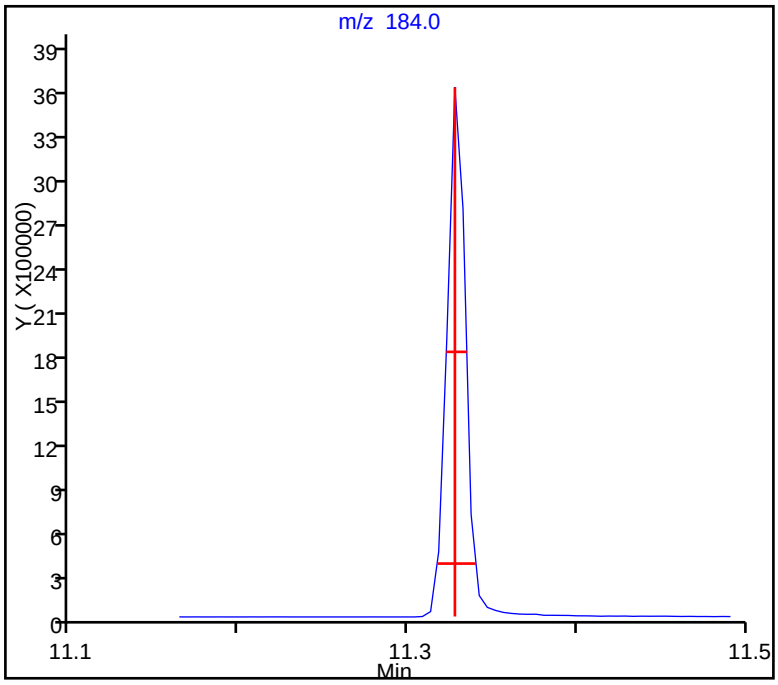
Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D
Injection Date: 24-Apr-2015 07:43:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

160 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Report Date: 27-Apr-2015 09:33:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Peak Tailing Report

TestAmerica Canton

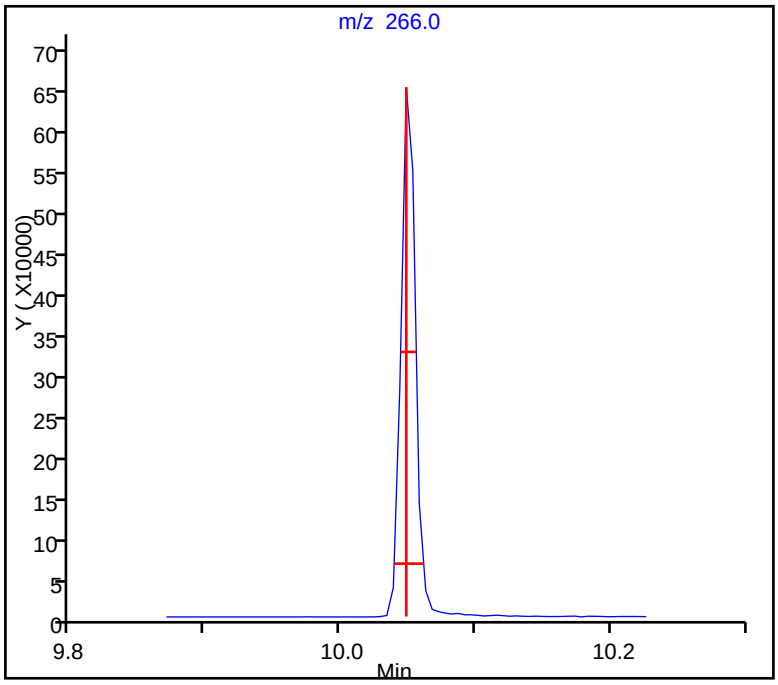
Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424001.D
Injection Date: 24-Apr-2015 07:43:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

143 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.009 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176086/2-A

Matrix: Water | Lab File ID: 50424005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1000(mL) | Date Analyzed: 04/24/2015 09:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	0.10	U	0.20	0.10	0.044
208-96-8	Acenaphthylene	0.10	U	0.20	0.10	0.048
120-12-7	Anthracene	0.10	U	0.20	0.10	0.088
56-55-3	Benzo[a]anthracene	0.10	U	0.20	0.10	0.030
50-32-8	Benzo[a]pyrene	0.10	U	0.20	0.10	0.051
205-99-2	Benzo[b]fluoranthene	0.10	U	0.20	0.10	0.039
191-24-2	Benzo[g,h,i]perylene	0.10	U	0.20	0.10	0.046
65-85-0	Benzoic acid	20	U	25	20	10
207-08-9	Benzo[k]fluoranthene	0.10	U	0.20	0.10	0.045
100-51-6	Benzyl alcohol	0.50	U	5.0	0.50	0.38
111-91-1	Bis(2-chloroethoxy)methane	0.50	U	1.0	0.50	0.32
111-44-4	Bis(2-chloroethyl)ether	0.10	U	1.0	0.10	0.10
108-60-1	bis (2-chloroisopropyl) ether	0.50	U	1.0	0.50	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	5.0	5.0	1.7
101-55-3	4-Bromophenyl phenyl ether	0.50	U	2.0	0.50	0.22
85-68-7	Butyl benzyl phthalate	0.50	U	5.0	0.50	0.26
86-74-8	Carbazole	0.50	U	1.0	0.50	0.28
106-47-8	4-Chloroaniline	0.50	U	2.0	0.50	0.21
59-50-7	4-Chloro-3-methylphenol	0.50	U	2.0	0.50	0.21
91-58-7	2-Chloronaphthalene	0.50	U	1.0	0.50	0.10
95-57-8	2-Chlorophenol	0.50	U	1.0	0.50	0.29
7005-72-3	4-Chlorophenyl phenyl ether	0.50	U	2.0	0.50	0.30
218-01-9	Chrysene	0.10	U	0.20	0.10	0.050
53-70-3	Dibenz(a,h)anthracene	0.10	U	0.20	0.10	0.045
132-64-9	Dibenzofuran	0.10	U	1.0	0.10	0.020
95-50-1	1,2-Dichlorobenzene	0.50	U	1.0	0.50	0.29
541-73-1	1,3-Dichlorobenzene	0.50	U	1.0	0.50	0.23
106-46-7	1,4-Dichlorobenzene	0.50	U	1.0	0.50	0.34
91-94-1	3,3'-Dichlorobenzidine	1.0	U	5.0	1.0	0.37
120-83-2	2,4-Dichlorophenol	0.50	U	2.0	0.50	0.19
84-66-2	Diethyl phthalate	1.0	U	2.0	1.0	0.60
105-67-9	2,4-Dimethylphenol	0.50	U	2.0	0.50	0.25
131-11-3	Dimethyl phthalate	0.50	U	2.0	0.50	0.29
84-74-2	Di-n-butyl phthalate	5.0	U	5.0	5.0	1.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176086/2-A

Matrix: Water | Lab File ID: 50424005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1000(mL) | Date Analyzed: 04/24/2015 09:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	4.0	U	5.0	4.0	2.4
51-28-5	2,4-Dinitrophenol	1.0	U	5.0	1.0	0.32
121-14-2	2,4-Dinitrotoluene	0.50	U	5.0	0.50	0.25
606-20-2	2,6-Dinitrotoluene	5.0	U	5.0	5.0	1.1
117-84-0	Di-n-octyl phthalate	0.50	U	2.0	0.50	0.23
206-44-0	Fluoranthene	0.10	U	0.20	0.10	0.045
86-73-7	Fluorene	0.10	U	0.20	0.10	0.041
118-74-1	Hexachlorobenzene	0.10	U	0.20	0.10	0.085
87-68-3	Hexachlorobutadiene	0.50	U	1.0	0.50	0.27
77-47-4	Hexachlorocyclopentadiene	0.50	U	10	0.50	0.24
67-72-1	Hexachloroethane	0.50	U	1.0	0.50	0.19
193-39-5	Indeno[1,2,3-cd]pyrene	0.10	U	0.20	0.10	0.043
78-59-1	Isophorone	0.50	U	1.0	0.50	0.27
91-57-6	2-Methylnaphthalene	0.10	U	0.20	0.10	0.090
95-48-7	2-Methylphenol	0.50	U	1.0	0.50	0.17
15831-10-4	3 & 4 Methylphenol	1.0	U	2.0	1.0	0.80
91-20-3	Naphthalene	0.10	U	0.20	0.10	0.063
88-74-4	2-Nitroaniline	0.50	U	2.0	0.50	0.21
99-09-2	3-Nitroaniline	0.50	U	2.0	0.50	0.28
100-01-6	4-Nitroaniline	0.50	U	2.0	0.50	0.22
98-95-3	Nitrobenzene	0.10	U	1.0	0.10	0.040
88-75-5	2-Nitrophenol	0.50	U	2.0	0.50	0.28
100-02-7	4-Nitrophenol	4.0	U	5.0	4.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	0.50	U	1.0	0.50	0.24
86-30-6	N-Nitrosodiphenylamine	0.50	U	1.0	0.50	0.31
87-86-5	Pentachlorophenol	1.0	U	5.0	1.0	0.27
85-01-8	Phenanthrene	0.10	U	0.20	0.10	0.062
108-95-2	Phenol	1.0	U	1.0	1.0	0.60
129-00-0	Pyrene	0.10	U	0.20	0.10	0.042
120-82-1	1,2,4-Trichlorobenzene	0.50	U	1.0	0.50	0.28
95-95-4	2,4,5-Trichlorophenol	0.50	U	5.0	0.50	0.30
88-06-2	2,4,6-Trichlorophenol	0.50	U	5.0	0.50	0.24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176086/2-A

Matrix: Water | Lab File ID: 50424005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1000(mL) | Date Analyzed: 04/24/2015 09:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	78		50-110
367-12-4	2-Fluorophenol (Surr)	80		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	75		40-110
4165-62-2	Phenol-d5 (Surr)	80		10-115
1718-51-0	Terphenyl-d14 (Surr)	80		50-135
118-79-6	2,4,6-Tribromophenol (Surr)	86		40-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424005.D
Lims ID: MB 240-176086/2-A
Client ID:
Sample Type: MB
Inject. Date: 24-Apr-2015 09:23:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-005
Misc. Info.: MB 240-176086/2-AMB 240-176086/2-A
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 09:52:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.325	6.325	0.000	93	89992	4.00	4.00	
* 2 Naphthalene-d8	136	7.446	7.445	0.001	98	338057	4.00	4.00	
* 3 Acenaphthene-d10	164	8.951	8.950	0.001	92	210467	4.00	4.00	
* 4 Phenanthrene-d10	188	10.220	10.220	0.000	98	383214	4.00	4.00	
* 5 Chrysene-d12	240	12.505	12.504	0.001	97	428561	4.00	4.00	
* 6 Perylene-d12	264	14.245	14.245	0.000	98	343116	4.00	4.00	
$ 7 2-Fluorophenol	112	5.094	5.097	-0.003	95	265850	10.0	8.03	
$ 8 Phenol-d5	99	5.960	5.962	-0.002	95	397521	10.0	8.02	
$ 9 Nitrobenzene-d5	82	6.801	6.804	-0.003	85	463100	10.0	7.53	
$ 10 2-Fluorobiphenyl (Surr)	172	8.350	8.352	-0.002	99	552709	10.0	7.81	
$ 11 2,4,6-Tribromophenol	330	9.619	9.622	-0.003	88	67357	10.0	8.64	
$ 12 Terphenyl-d14	244	11.543	11.545	-0.002	99	699501	10.0	8.02	
25 1,4-Dioxane	88		2.875					ND	
26 N-Nitrosodimethylamine	74		3.404					ND	
27 Pyridine	79		3.466					ND	
20 Dimethylformamide	73	3.983	3.978	0.005	91	28406		0.9354	
28 Ethyl methacrylate	69		4.089					ND	
31 2-Picoline	93		4.464					ND	
32 N-Nitrosomethylethylamine	88		4.579					ND	
35 Acrylamide	71	4.820	4.853	-0.033	1	91		NC	
34 Methyl methanesulfonate	80		4.897					ND	
233 n,n'-Dimethylacetamide	44		4.993					ND	
36 N-Nitrosodiethylamine	102		5.320					ND	
37 Ethyl methanesulfonate	79		5.589					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.820					ND	
39 3-Methylcyclohexanone	69	5.960	5.854	0.106	49	72643		NC	
40 4-Methylcyclohexanone	55	5.960	5.902	0.058	51	5139		NC	
41 Benzaldehyde	77		5.928					ND	
43 Phenol	94	5.974	5.977	-0.003	76	10120		0.1884	
44 Aniline	93		6.025					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.063					ND	
45 Pentachloroethane	167		6.080					ND	
46 2-Chlorophenol	128		6.140					ND	
243 n-Decane	57	6.354	6.174	0.180	74	4824			NC
47 1,3-Dichlorobenzene	146		6.284					ND	
48 1,4-Dichlorobenzene	146		6.342					ND	
232 1-Methyl-2-pyrrilidinone	99	6.431	6.421	0.010	86	3554			NC
49 Benzyl alcohol	108		6.429					ND	
50 1,2-Dichlorobenzene	146		6.486					ND	
51 2-Methylphenol	108		6.515					ND	
53 2,2'-oxybis[1-chloropropan	45		6.549					ND	
52 Indene	115		6.563					ND	
286 4-Methyl-1-cyclohexanemeth	55	6.604	6.574	0.030	0	116			NC
56 N-Nitrosopyrrolidine	100		6.633					ND	
21 3 & 4 Methylphenol	108		6.645					ND	
57 N-Nitrosodi-n-propylamine	70		6.659					ND	
59 N-Nitrosomorpholine	56		6.661					ND	
58 Acetophenone	105	6.667	6.669	-0.002	91	7989		0.1490	
60 2-Toluidine	106		6.700					ND	
287 4-Methyl-1-cyclohexanemeth	55	6.739	6.708	0.031	0	404			NC
61 Hexachloroethane	117		6.794					ND	
62 Nitrobenzene	77		6.823					ND	
63 N-Nitrosopiperidine	114		6.945					ND	
64 Isophorone	82	7.023	7.025	-0.002	96	11244		0.1171	
66 2-Nitrophenol	139		7.102					ND	
65 2,4-Dimethylphenol	107		7.111					ND	
67 1,3,5-Trichlorobenzene	180		7.123					ND	
68 o,o',o''-Triethylphosphoro	198		7.162					ND	
71 Benzoic acid	122		7.174					ND	
70 Bis(2-chloroethoxy)methane	93		7.188					ND	
72 alpha,alpha-Dimethyl phene	58		7.277					ND	
73 2,4-Dichlorophenol	162		7.309					ND	
74 1,2,4-Trichlorobenzene	180		7.390					ND	
75 Naphthalene	128		7.467					ND	
76 4-Chloroaniline	127		7.487					ND	
77 2,6-Dichlorophenol	162		7.501					ND	
78 Hexachloropropene	213		7.546					ND	
79 Hexachlorobutadiene	225		7.568					ND	
80 1,2,3-Trichlorobenzene	180		7.590					ND	
81 Benzothiazole	135		7.676					ND	
82 Quinoline	129		7.739					ND	
83 N-Nitrosodi-n-butylamine	84		7.753					ND	
84 Caprolactam	113	7.749	7.770	-0.021	79	5277		0.4988	
85 p-Phenylene diamine	108		7.777					ND	
86 4-Chloro-3-methylphenol	107		7.881					ND	
94 Safrole, Total	162		7.955					ND	
87 2-Methylnaphthalene	142		8.054					ND	
88 1-Methylnaphthalene	142		8.141					ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.191					ND	
89 Hexachlorocyclopentadiene	237		8.198					ND	
225 Isosafrole Peak 1	162		8.200					ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.203					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.285					ND	
93 2,4,5-Trichlorophenol	196		8.318					ND	
227 Isosafrole Peak 2	162		8.393					ND	
97 2,4-Toluene diamine	121		8.412					ND	
98 1,1'-Biphenyl	154		8.443					ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.446					ND	
96 3,4-Dichloronitrobenzene	109	8.422	8.465	-0.043	53	4788			NC
100 2-Chloronaphthalene	162		8.472					ND	
246 1-Chloronaphthalene	162		8.498					ND	
101 Phenyl ether	170		8.523					ND	
102 2-Nitroaniline	65		8.535					ND	
103 1,4-Naphthoquinone	158		8.604					ND	
104 1,4-Dinitrobenzene	168		8.628					ND	
105 Dimethyl phthalate	163		8.670					ND	
106 1,3-Dinitrobenzene	168		8.703					ND	
107 2,6-Dinitrotoluene	165		8.727					ND	
109 Acenaphthylene	152		8.833					ND	
110 3-Nitroaniline	138		8.881					ND	
111 2,4-Dinitrophenol	184		8.968					ND	
112 Acenaphthene	153		8.982					ND	
113 4-Nitrophenol	109		8.992					ND	
114 2,4-Dinitrotoluene	165		9.073					ND	
115 Pentachlorobenzene	250		9.095					ND	
116 Dibenzofuran	168		9.126					ND	
117 1-Naphthylamine	143		9.176					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.181					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.223					ND	
120 2-Naphthylamine	143		9.244					ND	
121 Diethyl phthalate	149	9.259	9.261	-0.002	66	8179		0.1234	
247 Hexadecane	57		9.266					ND	
122 Thionazin	97		9.330					ND	
123 4-Chlorophenyl phenyl ethe	204		9.391					ND	
124 N-Nitro-o-toluidine	152		9.398					ND	
125 4-Nitroaniline	138		9.400					ND	
127 Tributyl phosphate	99		9.417					ND	
126 Fluorene	166		9.420					ND	
128 4,6-Dinitro-2-methylphenol	198		9.429					ND	
130 Diphenylamine	169		9.484					ND	
131 N-Nitrosodiphenylamine	169		9.487					ND	
297 Benzophenone	105	9.528	9.512	0.016	75	2860			NC
132 1,2-Diphenylhydrazine	77	9.533	9.530	0.003	74	2863		0.0267	
133 Azobenzene	77		9.530					ND	
134 Sulfotepp	202		9.585					ND	
135 1,3,5-Trinitrobenzene	213		9.662					ND	
137 Phenacetin	108		9.715					ND	
228 Diallate Peak 1	86		9.720					ND	
138 Phorate	121		9.729					ND	
230 Diallate Peak 2	86		9.802					ND	
139 4-Bromophenyl phenyl ether	248		9.809					ND	
140 Dimethoate	87		9.869					ND	
141 Hexachlorobenzene	284		9.901					ND	
142 Atrazine	200		9.910					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.028					ND	
244 n-Octadecane	57	10.043	10.045	-0.003	58	1498		NC	
144 Pronamide	173		10.052					ND	
143 Pentachlorophenol	266		10.054					ND	
145 Pentachloronitrobenzene	237		10.066					ND	
146 Disulfoton	88		10.167					ND	
147 Dinoseb	211		10.181					ND	
148 Phenanthrene	178		10.242					ND	
149 Anthracene	178		10.285					ND	
151 Carbazole	167		10.401					ND	
152 Methyl parathion	109		10.494					ND	
154 Di-n-butyl phthalate	149	10.639	10.641	-0.002	99	34664		0.3080	
153 Diphenylsulfone	125		10.672					ND	
155 Ethyl Parathion	97		10.816					ND	
156 4-Nitroquinoline-1-oxide	190		10.874					ND	
157 Methapyrilene	58		10.917					ND	
158 Isodrin	66		11.138					ND	
159 Fluoranthene	202		11.261					ND	
160 Benzidine	184		11.329					ND	
161 Pyrene	202		11.463					ND	
226 Aramite Peak 1	185		11.489					ND	
229 Aramite Peak 2	185		11.547					ND	
163 p-Dimethylamino azobenzene	225		11.658					ND	
164 Chlorobenzilate	139		11.682					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.889					ND	
168 Butyl benzyl phthalate	149		11.925					ND	
169 3,3'-Dimethylbenzidine	212		11.937					ND	
171 2-Acetylaminofluorene	181		12.163					ND	
172 3,3'-Dimethoxybenzidine	244		12.379					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.399	12.406	-0.007	95	13344		0.1842	
174 4,4'-Methylene bis(2-chlor	231		12.418					ND	
175 3,3'-Dichlorobenzidine	252		12.435					ND	
177 Benzo[a]anthracene	228		12.497					ND	
178 Chrysene	228		12.536					ND	
176 Hexabromobenzene	232	12.505	12.543	-0.038	45	19220		NC	
179 6-Methylchrysene	242		12.995					ND	
180 Di-n-octyl phthalate	149		13.055					ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.677					ND	
182 Benzo[b]fluoranthene	252		13.709					ND	
183 Benzo[k]fluoranthene	252		13.748					ND	
184 Benzo[a]pyrene	252		14.176					ND	
185 3-Methylcholanthrene	268		14.692					ND	
187 Dibenz[a,h]acridine	279		15.649					ND	
186 Dibenz[a,j]acridine	279		15.746					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.152					ND	
189 Dibenz(a,h)anthracene	278		16.162					ND	
190 Benzo[g,h,i]perylene	276		16.739					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
275 Dieldrin	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
270 Toxaphene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
268 Endrin	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	4.969	5.003	-0.031	0	49			0
T 194 Decane TIC	142	5.796	5.800	-0.004	20	156			0
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121	7.249	7.249	-0.001	0	214			0
T 235 4-isopropylphenol TIC	121	7.374	7.363	0.010	0	306			0
T 236 3-isopropylphenol TIC	121	7.374	7.363	0.010	0	306			0
T 237 3-(1,1-Dimethylethyl Pheno	135	7.720	7.719	0.000	1	125			0
T 231 2,3,7,8-TCDD	322		8.240					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 195 Hydroquinone TIC	110	8.999	8.999	-0.001	1	193		0	
T 192 Octadecane (TIC)	254	15.337	9.600	5.737	72	8446		0	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326	12.019	11.999	0.019	0	189		0	
T 280 2,3,7,8-TCDD TIC	198	12.505	12.499	0.005	0	4061		0	
T 241 Tricresyl phosphate TIC	368		12.500					ND	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201	14.125	13.999	0.125	0	206		0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

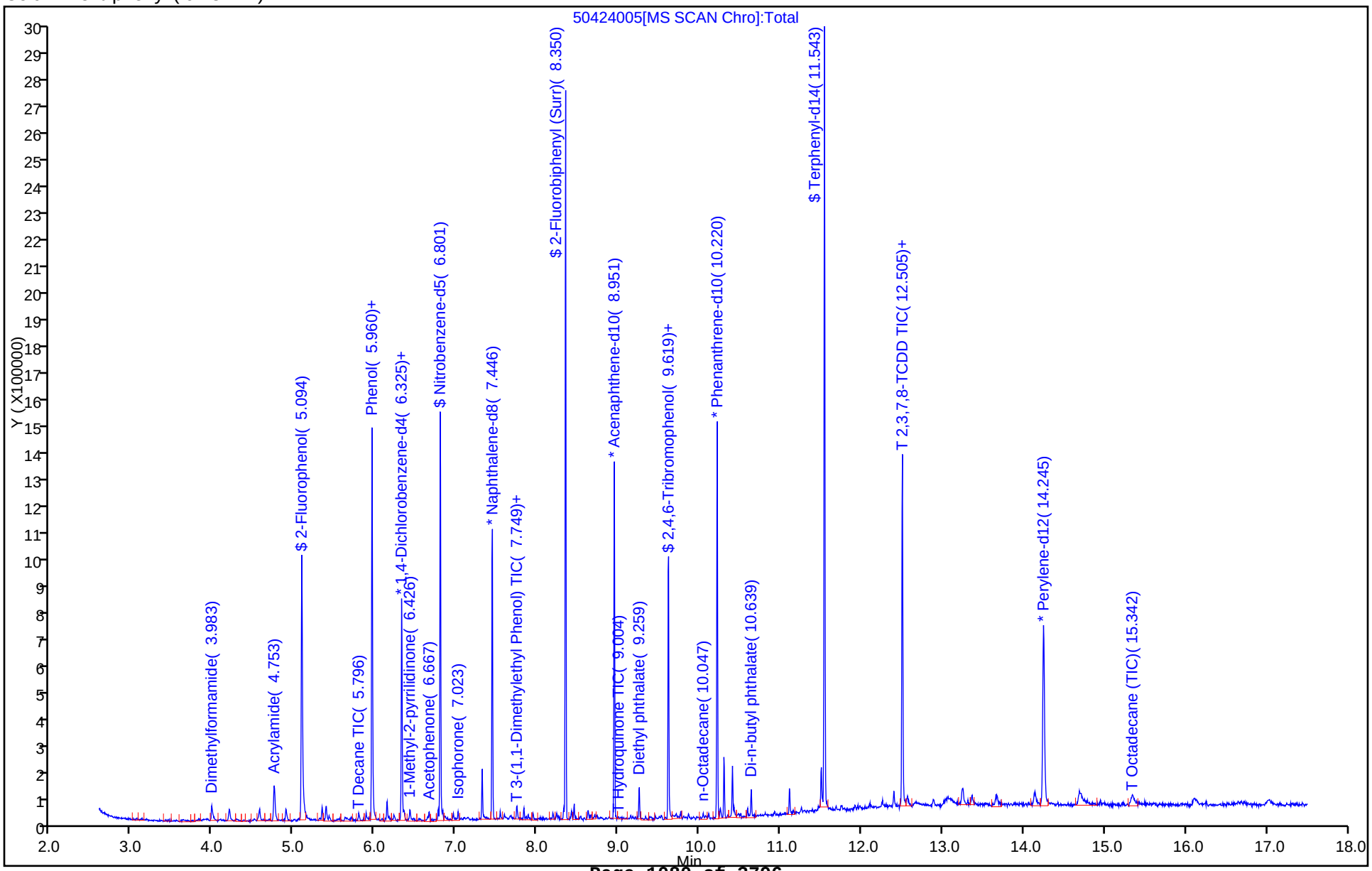
Report Date: 27-Apr-2015 09:33:34 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424005.D

Injection Date:	24-Apr-2015 09:23:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	MB 240-176086/2-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176654/8-A

Matrix: Solid | Lab File ID: 50424007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/16/2015 08:13

Sample wt/vol: 250(mL) | Date Analyzed: 04/24/2015 10:13

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
110-86-1	Pyridine	0.00050	U	0.020	0.00050	0.00035
106-46-7	1,4-Dichlorobenzene	0.00050	U	0.0040	0.00050	0.00034
121-14-2	2,4-Dinitrotoluene	0.00050	U	0.020	0.00050	0.00025
118-74-1	Hexachlorobenzene	0.00010	U	0.020	0.00010	0.000085
87-68-3	Hexachlorobutadiene	0.00050	U	0.020	0.00050	0.00027
67-72-1	Hexachloroethane	0.00050	U	0.020	0.00050	0.00019
95-48-7	2-Methylphenol	0.00050	U	0.0040	0.00050	0.00017
15831-10-4	3 & 4 Methylphenol	0.0010	U	0.040	0.0010	0.00080
98-95-3	Nitrobenzene	0.00010	U	0.0040	0.00010	0.000040
87-86-5	Pentachlorophenol	0.0010	U	0.040	0.0010	0.00027
95-95-4	2,4,5-Trichlorophenol	0.00050	U	0.020	0.00050	0.00030
88-06-2	2,4,6-Trichlorophenol	0.00050	U	0.020	0.00050	0.00024

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	87		22-110
367-12-4	2-Fluorophenol (Surr)	46		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	82		29-111
4165-62-2	Phenol-d5 (Surr)	74		10-110
1718-51-0	Terphenyl-d14 (Surr)	84		40-119
118-79-6	2,4,6-Tribromophenol (Surr)	71		17-117

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424007.D
Lims ID: MB 240-176654/8-A
Client ID:
Sample Type: MB
Inject. Date: 24-Apr-2015 10:13:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-007
Misc. Info.: MB 240-176654/8-AMB 240-176654/8-A
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 10:39:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.328	6.325	0.003	95	90606	4.00	4.00	
* 2 Naphthalene-d8	136	7.444	7.445	-0.001	98	345876	4.00	4.00	
* 3 Acenaphthene-d10	164	8.949	8.950	-0.001	94	211644	4.00	4.00	
* 4 Phenanthrene-d10	188	10.219	10.220	-0.001	99	390113	4.00	4.00	
* 5 Chrysene-d12	240	12.503	12.504	-0.001	97	442894	4.00	4.00	
* 6 Perylene-d12	264	14.249	14.245	0.004	99	364216	4.00	4.00	
$ 7 2-Fluorophenol	112	5.097	5.097	0.000	95	154693	10.0	4.64	
$ 8 Phenol-d5	99	5.963	5.962	0.001	96	370578	10.0	7.43	
$ 9 Nitrobenzene-d5	82	6.805	6.804	0.001	86	516149	10.0	8.20	
$ 10 2-Fluorobiphenyl (Surr)	172	8.348	8.352	-0.004	99	622254	10.0	8.74	
$ 11 2,4,6-Tribromophenol	330	9.618	9.622	-0.004	82	55765	10.0	7.12	
$ 12 Terphenyl-d14	244	11.546	11.545	0.001	99	758962	10.0	8.42	
25 1,4-Dioxane	88		2.875					ND	
26 N-Nitrosodimethylamine	74		3.404					ND	
27 Pyridine	79		3.466					ND	
20 Dimethylformamide	73	3.987	3.978	0.009	93	58837		1.92	
28 Ethyl methacrylate	69		4.089					ND	
31 2-Picoline	93		4.464					ND	
32 N-Nitrosomethylethylamine	88		4.579					ND	
35 Acrylamide	71		4.853					ND	
34 Methyl methanesulfonate	80		4.897					ND	
233 n,n'-Dimethylacetamide	44		4.993					ND	
36 N-Nitrosodiethylamine	102		5.320					ND	
37 Ethyl methanesulfonate	79		5.589					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.820					ND	
39 3-Methylcyclohexanone	69		5.854					ND	
40 4-Methylcyclohexanone	55		5.902					ND	
41 Benzaldehyde	77		5.928					ND	
43 Phenol	94		5.977					ND	
44 Aniline	93		6.025					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.063					ND	
45 Pentachloroethane	167		6.080					ND	
46 2-Chlorophenol	128		6.140					ND	
243 n-Decane	57		6.174					ND	
47 1,3-Dichlorobenzene	146		6.284					ND	
48 1,4-Dichlorobenzene	146		6.342					ND	
232 1-Methyl-2-pyrrilidinone	99		6.421					ND	
49 Benzyl alcohol	108		6.429					ND	
50 1,2-Dichlorobenzene	146		6.486					ND	
51 2-Methylphenol	108		6.515					ND	
53 2,2'-oxybis[1-chloropropan	45		6.549					ND	
52 Indene	115		6.563					ND	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
56 N-Nitrosopyrrolidine	100		6.633					ND	
21 3 & 4 Methylphenol	108		6.645					ND	
57 N-Nitrosodi-n-propylamine	70		6.659					ND	
59 N-Nitrosomorpholine	56		6.661					ND	
58 Acetophenone	105	6.665	6.669	-0.004	89	6765		0.1253	
60 2-Toluidine	106		6.700					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
61 Hexachloroethane	117		6.794					ND	
62 Nitrobenzene	77		6.823					ND	
63 N-Nitrosopiperidine	114		6.945					ND	
64 Isophorone	82		7.025					ND	
66 2-Nitrophenol	139		7.102					ND	
65 2,4-Dimethylphenol	107		7.111					ND	
67 1,3,5-Trichlorobenzene	180		7.123					ND	
68 o,o',o''-Triethylphosphoro	198		7.162					ND	
71 Benzoic acid	122		7.174					ND	
70 Bis(2-chloroethoxy)methane	93		7.188					ND	
72 alpha,alpha-Dimethyl phene	58		7.277					ND	
73 2,4-Dichlorophenol	162		7.309					ND	
74 1,2,4-Trichlorobenzene	180		7.390					ND	
75 Naphthalene	128		7.467					ND	
76 4-Chloroaniline	127		7.487					ND	
77 2,6-Dichlorophenol	162		7.501					ND	
78 Hexachloropropene	213		7.546					ND	
79 Hexachlorobutadiene	225		7.568					ND	
80 1,2,3-Trichlorobenzene	180		7.590					ND	
81 Benzothiazole	135		7.676					ND	
82 Quinoline	129		7.739					ND	
83 N-Nitrosodi-n-butylamine	84		7.753					ND	
84 Caprolactam	113	7.747	7.770	-0.023	87	6554		0.6055	
85 p-Phenylene diamine	108		7.777					ND	
86 4-Chloro-3-methylphenol	107		7.881					ND	
94 Safrole, Total	162		7.955					ND	
87 2-Methylnaphthalene	142		8.054					ND	
88 1-Methylnaphthalene	142		8.141					ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.191					ND	
89 Hexachlorocyclopentadiene	237		8.198					ND	
225 Isosafrole Peak 1	162		8.200					ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.203					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.285					ND	
93 2,4,5-Trichlorophenol	196		8.318					ND	
227 Isosafrole Peak 2	162		8.393					ND	
97 2,4-Toluene diamine	121		8.412					ND	
98 1,1'-Biphenyl	154		8.443					ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.446					ND	
96 3,4-Dichloronitrobenzene	109		8.465					ND	
100 2-Chloronaphthalene	162		8.472					ND	
246 1-Chloronaphthalene	162		8.498					ND	
101 Phenyl ether	170		8.523					ND	
102 2-Nitroaniline	65		8.535					ND	
103 1,4-Naphthoquinone	158		8.604					ND	
104 1,4-Dinitrobenzene	168		8.628					ND	
105 Dimethyl phthalate	163		8.670					ND	
106 1,3-Dinitrobenzene	168		8.703					ND	
107 2,6-Dinitrotoluene	165		8.727					ND	
109 Acenaphthylene	152		8.833					ND	
110 3-Nitroaniline	138		8.881					ND	
111 2,4-Dinitrophenol	184		8.968					ND	
112 Acenaphthene	153		8.982					ND	
113 4-Nitrophenol	109		8.992					ND	
114 2,4-Dinitrotoluene	165		9.073					ND	
115 Pentachlorobenzene	250		9.095					ND	
116 Dibenzofuran	168		9.126					ND	
117 1-Naphthylamine	143		9.176					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.181					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.223					ND	
120 2-Naphthylamine	143		9.244					ND	
121 Diethyl phthalate	149	9.257	9.261	-0.004	65	9416		0.1413	
247 Hexadecane	57		9.266					ND	
122 Thionazin	97		9.330					ND	
123 4-Chlorophenyl phenyl ethe	204		9.391					ND	
124 N-Nitro-o-toluidine	152		9.398					ND	
125 4-Nitroaniline	138		9.400					ND	
127 Tributyl phosphate	99		9.417					ND	
126 Fluorene	166		9.420					ND	
128 4,6-Dinitro-2-methylphenol	198		9.429					ND	
130 Diphenylamine	169		9.484					ND	
131 N-Nitrosodiphenylamine	169		9.487					ND	
297 Benzophenone	105		9.512					ND	
132 1,2-Diphenylhydrazine	77		9.530					ND	
133 Azobenzene	77		9.530					ND	
134 Sulfotepp	202		9.585					ND	
135 1,3,5-Trinitrobenzene	213		9.662					ND	
137 Phenacetin	108		9.715					ND	
228 Diallate Peak 1	86		9.720					ND	
138 Phorate	121		9.729					ND	
230 Diallate Peak 2	86		9.802					ND	
139 4-Bromophenyl phenyl ether	248		9.809					ND	
140 Dimethoate	87		9.869					ND	
141 Hexachlorobenzene	284		9.901					ND	
142 Atrazine	200		9.910					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.028					ND	
244 n-Octadecane	57		10.045					ND	
144 Pronamide	173		10.052					ND	
143 Pentachlorophenol	266		10.054					ND	
145 Pentachloronitrobenzene	237		10.066					ND	
146 Disulfoton	88		10.167					ND	
147 Dinoseb	211		10.181					ND	
148 Phenanthrene	178		10.242					ND	
149 Anthracene	178		10.285					ND	
151 Carbazole	167		10.401					ND	
152 Methyl parathion	109		10.494					ND	
154 Di-n-butyl phthalate	149	10.637	10.641	-0.004	99	29135		0.2543	
153 Diphenylsulfone	125		10.672					ND	
155 Ethyl Parathion	97		10.816					ND	
156 4-Nitroquinoline-1-oxide	190		10.874					ND	
157 Methapyrilene	58		10.917					ND	
158 Isodrin	66		11.138					ND	
159 Fluoranthene	202		11.261					ND	
160 Benzidine	184		11.329					ND	
161 Pyrene	202		11.463					ND	
226 Aramite Peak 1	185		11.489					ND	
229 Aramite Peak 2	185		11.547					ND	
163 p-Dimethylamino azobenzene	225		11.658					ND	
164 Chlorobenzilate	139		11.682					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.889					ND	
168 Butyl benzyl phthalate	149		11.925					ND	
169 3,3'-Dimethylbenzidine	212		11.937					ND	
171 2-Acetylaminofluorene	181		12.163					ND	
172 3,3'-Dimethoxybenzidine	244		12.379					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.402	12.406	-0.004	91	16181		0.2162	
174 4,4'-Methylene bis(2-chlor	231		12.418					ND	
175 3,3'-Dichlorobenzidine	252		12.435					ND	
177 Benzo[a]anthracene	228		12.497					ND	
178 Chrysene	228		12.536					ND	
176 Hexabromobenzene	232		12.543					ND	
179 6-Methylchrysene	242		12.995					ND	
180 Di-n-octyl phthalate	149		13.055					ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.677					ND	
182 Benzo[b]fluoranthene	252		13.709					ND	
183 Benzo[k]fluoranthene	252		13.748					ND	
184 Benzo[a]pyrene	252		14.176					ND	
185 3-Methylcholanthrene	268		14.692					ND	
187 Dibenz[a,h]acridine	279		15.649					ND	
186 Dibenz[a,j]acridine	279		15.746					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.152					ND	
189 Dibenz(a,h)anthracene	278		16.162					ND	
190 Benzo[g,h,i]perylene	276		16.739					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
275 Dieldrin	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
270 Toxaphene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
268 Endrin	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110		5.000					ND	
T 194 Decane TIC	142		5.800					ND	
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121		7.250					ND	
T 235 4-isopropylphenol TIC	121		7.364					ND	
T 236 3-isopropylphenol TIC	121		7.364					ND	
T 237 3-(1,1-Dimethylethyl Pheno	135		7.720					ND	
T 231 2,3,7,8-TCDD	322		8.240					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 195 Hydroquinone TIC	110		9.000					ND	
T 192 Octadecane (TIC)	254		9.600					ND	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326		12.000					ND	
T 280 2,3,7,8-TCDD TIC	198		12.500					ND	
T 241 Tricresyl phosphate TIC	368		12.500					ND	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201		14.000					ND	

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

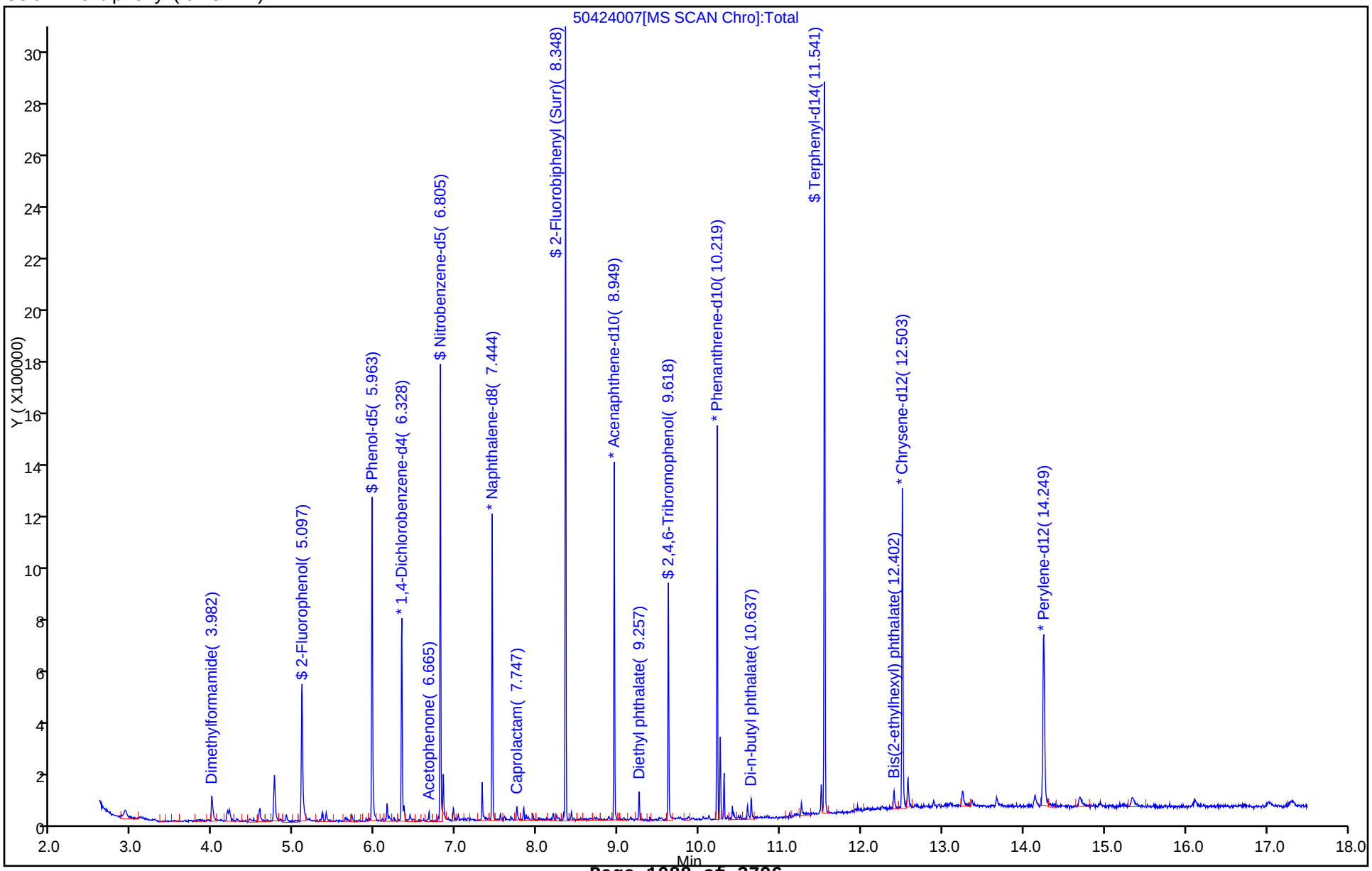
Report Date: 27-Apr-2015 09:33:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424007.D

Injection Date:	24-Apr-2015 10:13:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	MB 240-176654/8-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176086/3-A

Matrix: Water | Lab File ID: 50424006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1000(mL) | Date Analyzed: 04/24/2015 09:48

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	14.7		0.20	0.10	0.044
208-96-8	Acenaphthylene	14.1		0.20	0.10	0.048
120-12-7	Anthracene	15.1		0.20	0.10	0.088
56-55-3	Benzo[a]anthracene	14.6		0.20	0.10	0.030
50-32-8	Benzo[a]pyrene	13.4		0.20	0.10	0.051
205-99-2	Benzo[b]fluoranthene	14.7		0.20	0.10	0.039
191-24-2	Benzo[g,h,i]perylene	14.2		0.20	0.10	0.046
65-85-0	Benzoic acid	13.5	J M	25	20	10
207-08-9	Benzo[k]fluoranthene	15.3		0.20	0.10	0.045
100-51-6	Benzyl alcohol	13.5		5.0	0.50	0.38
111-91-1	Bis(2-chloroethoxy)methane	15.5		1.0	0.50	0.32
111-44-4	Bis(2-chloroethyl)ether	14.5		1.0	0.10	0.10
108-60-1	bis (2-chloroisopropyl) ether	15.5		1.0	0.50	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	14.6		5.0	5.0	1.7
101-55-3	4-Bromophenyl phenyl ether	17.1		2.0	0.50	0.22
85-68-7	Butyl benzyl phthalate	15.1		5.0	0.50	0.26
86-74-8	Carbazole	16.5		1.0	0.50	0.28
106-47-8	4-Chloroaniline	13.8		2.0	0.50	0.21
59-50-7	4-Chloro-3-methylphenol	15.3		2.0	0.50	0.21
91-58-7	2-Chloronaphthalene	14.2		1.0	0.50	0.10
95-57-8	2-Chlorophenol	14.2		1.0	0.50	0.29
7005-72-3	4-Chlorophenyl phenyl ether	15.4		2.0	0.50	0.30
218-01-9	Chrysene	15.8		0.20	0.10	0.050
53-70-3	Dibenz(a,h)anthracene	14.5		0.20	0.10	0.045
132-64-9	Dibenzofuran	15.1		1.0	0.10	0.020
95-50-1	1,2-Dichlorobenzene	13.6		1.0	0.50	0.29
541-73-1	1,3-Dichlorobenzene	12.9		1.0	0.50	0.23
106-46-7	1,4-Dichlorobenzene	13.4		1.0	0.50	0.34
91-94-1	3,3'-Dichlorobenzidine	29.7		5.0	1.0	0.37
120-83-2	2,4-Dichlorophenol	14.9		2.0	0.50	0.19
84-66-2	Diethyl phthalate	16.0		2.0	1.0	0.60
105-67-9	2,4-Dimethylphenol	11.6		2.0	0.50	0.25
131-11-3	Dimethyl phthalate	16.1		2.0	0.50	0.29
84-74-2	Di-n-butyl phthalate	18.0		5.0	5.0	1.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176086/3-A

Matrix: Water | Lab File ID: 50424006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1000(mL) | Date Analyzed: 04/24/2015 09:48

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	29.2		5.0	4.0	2.4
51-28-5	2,4-Dinitrophenol	26.0		5.0	1.0	0.32
121-14-2	2,4-Dinitrotoluene	16.2		5.0	0.50	0.25
606-20-2	2,6-Dinitrotoluene	15.6		5.0	5.0	1.1
117-84-0	Di-n-octyl phthalate	13.7		2.0	0.50	0.23
206-44-0	Fluoranthene	16.8		0.20	0.10	0.045
86-73-7	Fluorene	15.0		0.20	0.10	0.041
118-74-1	Hexachlorobenzene	16.1		0.20	0.10	0.085
87-68-3	Hexachlorobutadiene	12.9		1.0	0.50	0.27
77-47-4	Hexachlorocyclopentadiene	0.839	J	10	0.50	0.24
67-72-1	Hexachloroethane	13.4		1.0	0.50	0.19
193-39-5	Indeno[1,2,3-cd]pyrene	14.0		0.20	0.10	0.043
78-59-1	Isophorone	14.5		1.0	0.50	0.27
91-57-6	2-Methylnaphthalene	13.8		0.20	0.10	0.090
95-48-7	2-Methylphenol	13.7		1.0	0.50	0.17
15831-10-4	3 & 4 Methylphenol	14.1		2.0	1.0	0.80
91-20-3	Naphthalene	13.8		0.20	0.10	0.063
88-74-4	2-Nitroaniline	15.7		2.0	0.50	0.21
99-09-2	3-Nitroaniline	16.9		2.0	0.50	0.28
100-01-6	4-Nitroaniline	16.4		2.0	0.50	0.22
98-95-3	Nitrobenzene	14.4		1.0	0.10	0.040
88-75-5	2-Nitrophenol	14.6		2.0	0.50	0.28
100-02-7	4-Nitrophenol	32.2		5.0	4.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	14.5		1.0	0.50	0.24
86-30-6	N-Nitrosodiphenylamine	33.0		1.0	0.50	0.31
87-86-5	Pentachlorophenol	28.5		5.0	1.0	0.27
85-01-8	Phenanthrene	15.2		0.20	0.10	0.062
108-95-2	Phenol	14.2		1.0	1.0	0.60
129-00-0	Pyrene	15.6		0.20	0.10	0.042
120-82-1	1,2,4-Trichlorobenzene	13.5		1.0	0.50	0.28
95-95-4	2,4,5-Trichlorophenol	15.3		5.0	0.50	0.30
88-06-2	2,4,6-Trichlorophenol	14.5		5.0	0.50	0.24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176086/3-A

Matrix: Water | Lab File ID: 50424006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/13/2015 06:18

Sample wt/vol: 1000(mL) | Date Analyzed: 04/24/2015 09:48

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	69		50-110
367-12-4	2-Fluorophenol (Surr)	70		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	70		40-110
4165-62-2	Phenol-d5 (Surr)	67		10-115
1718-51-0	Terphenyl-d14 (Surr)	70		50-135
118-79-6	2,4,6-Tribromophenol (Surr)	83		40-125

Report Date: 27-Apr-2015 09:33:37 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424006.D
Lims ID: LCS 240-176086/3-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Apr-2015 09:48:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-006
Misc. Info.: LCS 240-176086/3-ALCS 240-176086/3-A
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 10:36:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.328	6.325	0.003	93	94317	4.00	4.00	
* 2 Naphthalene-d8	136	7.444	7.445	-0.001	98	349882	4.00	4.00	
* 3 Acenaphthene-d10	164	8.949	8.950	-0.001	93	216987	4.00	4.00	
* 4 Phenanthrene-d10	188	10.218	10.220	-0.002	95	359916	4.00	4.00	
* 5 Chrysene-d12	240	12.507	12.504	0.003	97	451375	4.00	4.00	
* 6 Perylene-d12	264	14.248	14.245	0.003	99	373210	4.00	4.00	
$ 7 2-Fluorophenol	112	5.097	5.097	0.000	94	242332	10.0	6.98	
$ 8 Phenol-d5	99	5.963	5.962	0.001	93	350101	10.0	6.74	
$ 9 Nitrobenzene-d5	82	6.804	6.804	0.000	86	447450	10.0	7.03	
$ 10 2-Fluorobiphenyl (Surr)	172	8.348	8.352	-0.004	99	502007	10.0	6.88	
$ 11 2,4,6-Tribromophenol	330	9.617	9.622	-0.005	81	66468	10.0	8.27	
$ 12 Terphenyl-d14	244	11.546	11.545	0.001	99	643521	10.0	7.01	
25 1,4-Dioxane	88	2.875	2.875	0.000	88	116803	10.0	5.84	
26 N-Nitrosodimethylamine	74	3.404	3.404	0.000	92	200526	10.0	6.00	
27 Pyridine	79	3.477	3.466	0.011	95	59764	10.0	1.11	
41 Benzaldehyde	77	5.924	5.928	-0.004	89	650511	20.0	16.5	
43 Phenol	94	5.972	5.977	-0.005	95	399127	10.0	7.09	
44 Aniline	93	6.020	6.025	-0.005	94	430972	10.0	6.16	
69 Bis(2-chloroethyl)ether	93	6.064	6.063	0.001	96	341461	10.0	7.24	
46 2-Chlorophenol	128	6.141	6.140	0.001	89	233507	10.0	7.09	
243 n-Decane	57	6.169	6.174	-0.005	97	257644	NC	NC	
47 1,3-Dichlorobenzene	146	6.285	6.284	0.001	87	229170	10.0	6.43	
48 1,4-Dichlorobenzene	146	6.343	6.342	0.001	84	241911	10.0	6.69	
49 Benzyl alcohol	108	6.424	6.429	-0.005	85	179203	10.0	6.75	
50 1,2-Dichlorobenzene	146	6.487	6.486	0.001	86	229106	10.0	6.79	
51 2-Methylphenol	108	6.516	6.515	0.001	93	250357	10.0	6.83	
53 2,2'-oxybis[1-chloropropan	45	6.549	6.549	0.000	97	299969	10.0	7.76	
52 Indene	115	6.564	6.563	0.001	89	870161	20.0	13.1	
21 3 & 4 Methylphenol	108	6.646	6.645	0.001	95	274105	10.0	7.07	
57 N-Nitrosodi-n-propylamine	70	6.655	6.659	-0.004	98	293426	10.0	7.23	
58 Acetophenone	105	6.665	6.669	-0.004	89	425421	10.0	7.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
61 Hexachloroethane	117	6.790	6.794	-0.004	91	114742	10.0	6.68	
62 Nitrobenzene	77	6.819	6.823	-0.004	83	421898	10.0	7.18	
64 Isophorone	82	7.021	7.025	-0.004	97	720286	10.0	7.25	
66 2-Nitrophenol	139	7.102	7.102	0.000	85	118725	10.0	7.31	
65 2,4-Dimethylphenol	107	7.107	7.111	-0.004	95	250072	10.0	5.80	
71 Benzoic acid	122	7.146	7.174	-0.028	82	111881	20.0	6.73	M
70 Bis(2-chloroethoxy)methane	93	7.184	7.188	-0.004	97	386945	10.0	7.74	
73 2,4-Dichlorophenol	162	7.304	7.309	-0.005	92	193150	10.0	7.44	
74 1,2,4-Trichlorobenzene	180	7.391	7.390	0.001	90	193720	10.0	6.77	
75 Naphthalene	128	7.463	7.467	-0.004	98	643976	10.0	6.89	
76 4-Chloroaniline	127	7.482	7.487	-0.005	87	282520	10.0	6.92	
79 Hexachlorobutadiene	225	7.569	7.568	0.001	95	124384	10.0	6.46	
84 Caprolactam	113	7.756	7.770	-0.014	84	167476	20.0	15.3	
86 4-Chloro-3-methylphenol	107	7.877	7.881	-0.004	88	280076	10.0	7.67	
87 2-Methylnaphthalene	142	8.055	8.054	0.001	89	422649	10.0	6.88	
88 1-Methylnaphthalene	142	8.141	8.141	0.000	90	396604	10.0	7.62	
89 Hexachlorocyclopentadiene	237	8.194	8.198	-0.004	89	8511	10.0	0.4196	
91 1,2,4,5-Tetrachlorobenzene	216	8.199	8.203	-0.004	96	218429	10.0	6.98	
92 2,4,6-Trichlorophenol	196	8.281	8.285	-0.004	93	151617	10.0	7.27	
93 2,4,5-Trichlorophenol	196	8.314	8.318	-0.004	90	166625	10.0	7.65	
98 1,1'-Biphenyl	154	8.439	8.443	-0.004	98	531669	10.0	6.98	
100 2-Chloronaphthalene	162	8.473	8.472	0.001	98	427322	10.0	7.09	
102 2-Nitroaniline	65	8.535	8.535	0.000	71	239497	10.0	7.84	
105 Dimethyl phthalate	163	8.665	8.670	-0.005	93	546131	10.0	8.06	
106 1,3-Dinitrobenzene	168	8.699	8.703	-0.004	79	87365	10.0	8.04	
107 2,6-Dinitrotoluene	165	8.723	8.727	-0.004	76	123310	10.0	7.78	
109 Acenaphthylene	152	8.834	8.833	0.001	98	655350	10.0	7.04	
110 3-Nitroaniline	138	8.877	8.881	-0.004	84	133347	10.0	8.43	
111 2,4-Dinitrophenol	184	8.963	8.968	-0.005	97	129127	20.0	13.0	
112 Acenaphthene	153	8.978	8.982	-0.004	97	444085	10.0	7.34	
113 4-Nitrophenol	109	8.987	8.992	-0.005	86	241498	20.0	16.1	
114 2,4-Dinitrotoluene	165	9.074	9.073	0.001	81	168050	10.0	8.11	
116 Dibenzofuran	168	9.122	9.126	-0.004	95	620812	10.0	7.54	
119 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.004	78	141707	10.0	8.08	
121 Diethyl phthalate	149	9.262	9.261	0.001	95	546417	10.0	8.00	
247 Hexadecane	57	9.266	9.266	0.000	96	352866	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.391	9.391	0.000	94	270217	10.0	7.70	
125 4-Nitroaniline	138	9.396	9.400	-0.004	76	125519	10.0	8.20	
126 Fluorene	166	9.415	9.420	-0.005	99	517211	10.0	7.48	
128 4,6-Dinitro-2-methylphenol	198	9.430	9.429	0.001	94	185436	20.0	14.6	
131 N-Nitrosodiphenylamine	169	9.483	9.487	-0.004	99	799262	20.0	16.5	
132 1,2-Diphenylhydrazine	77	9.526	9.530	-0.004	98	923706	10.0	9.19	
133 Azobenzene	77	9.526	9.530	-0.004	95	925381	10.0	9.20	
139 4-Bromophenyl phenyl ether	248	9.810	9.809	0.001	73	158050	10.0	8.57	
141 Hexachlorobenzene	284	9.901	9.901	0.000	88	146338	10.0	8.06	
142 Atrazine	200	9.906	9.910	-0.004	89	305251	20.0	16.5	
244 n-Octadecane	57	10.041	10.045	-0.004	97	376193	NC	NC	
143 Pentachlorophenol	266	10.050	10.054	-0.004	88	180955	20.0	14.2	
148 Phenanthrene	178	10.243	10.242	0.001	98	717319	10.0	7.59	
149 Anthracene	178	10.286	10.285	0.001	98	711384	10.0	7.53	
151 Carbazole	167	10.396	10.401	-0.005	97	698190	10.0	8.27	
154 Di-n-butyl phthalate	149	10.642	10.641	0.001	100	950664	10.0	8.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
159 Fluoranthene	202	11.257	11.261	-0.004	99	917099	10.0	8.41	
160 Benzidine	184	11.329	11.329	0.000	99	500498	20.0	7.65	
161 Pyrene	202	11.459	11.463	-0.004	96	966201	10.0	7.81	
168 Butyl benzyl phthalate	149	11.921	11.925	-0.004	91	434498	10.0	7.56	
173 Bis(2-ethylhexyl) phthalat	149	12.402	12.406	-0.004	95	555413	10.0	7.28	
175 3,3'-Dichlorobenzidine	252	12.431	12.435	-0.004	76	611054	20.0	14.9	
177 Benzo[a]anthracene	228	12.493	12.497	-0.004	98	925167	10.0	7.29	
178 Chrysene	228	12.532	12.536	-0.004	96	913307	10.0	7.88	
180 Di-n-octyl phthalate	149	13.051	13.055	-0.004	99	901969	10.0	6.86	
182 Benzo[b]fluoranthene	252	13.705	13.709	-0.004	96	827070	10.0	7.35	
183 Benzo[k]fluoranthene	252	13.739	13.748	-0.009	97	866694	10.0	7.65	
184 Benzo[a]pyrene	252	14.171	14.176	-0.005	76	717135	10.0	6.68	
188 Indeno[1,2,3-cd]pyrene	276	16.143	16.152	-0.009	94	762551	10.0	7.01	
189 Dibenz(a,h)anthracene	278	16.148	16.162	-0.014	89	650963	10.0	7.26	
190 Benzo[g,h,i]perylene	276	16.725	16.739	-0.014	98	642231	10.0	7.12	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

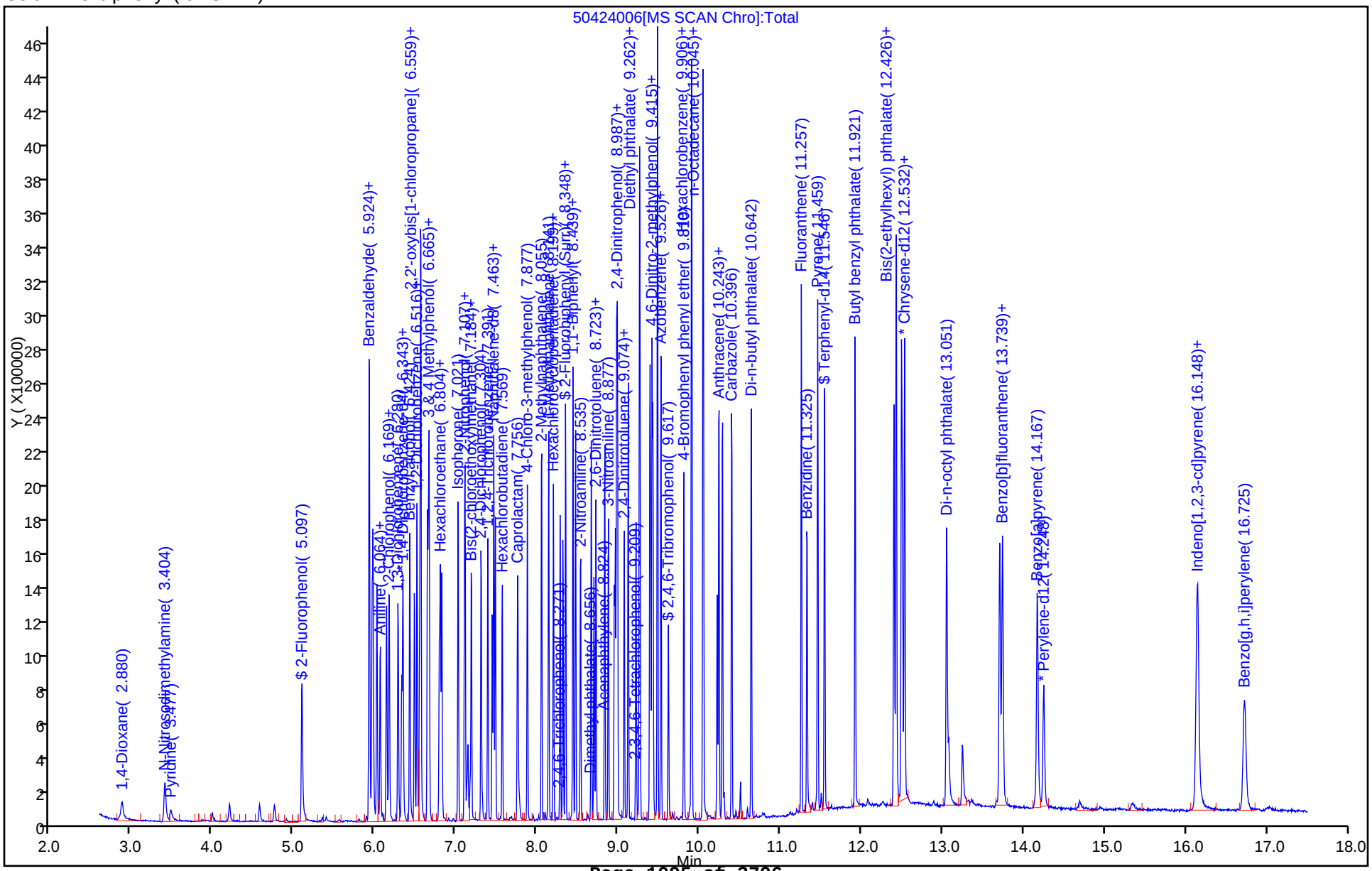
Report Date: 27-Apr-2015 09:33:37 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424006.D

Injection Date:	24-Apr-2015 09:48:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	LCS 240-176086/3-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

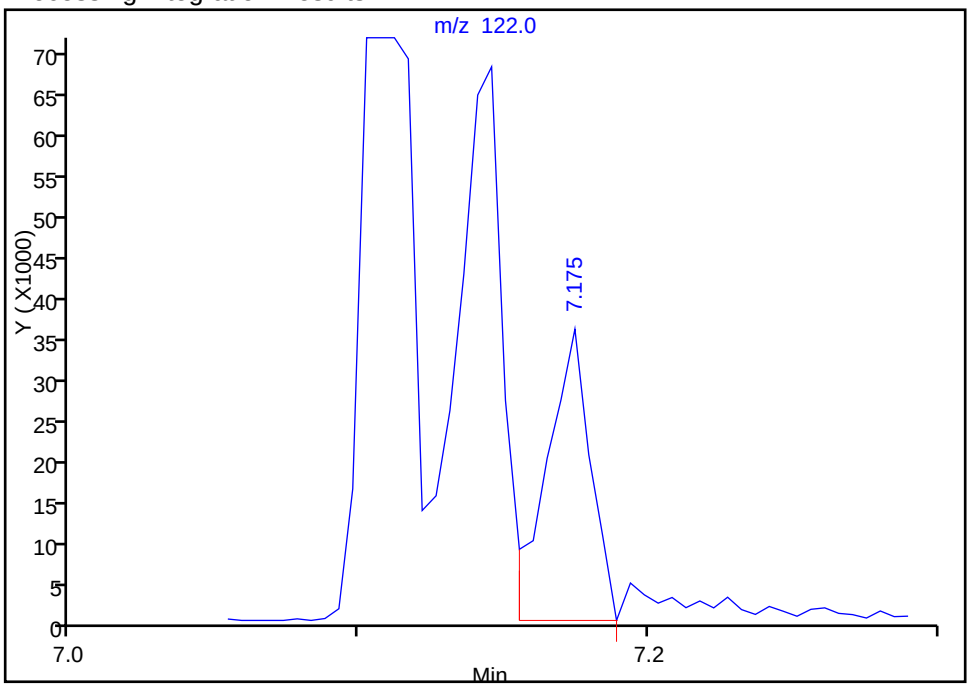
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424006.D
Injection Date: 24-Apr-2015 09:48:30 Instrument ID: A4HP9
Lims ID: LCS 240-176086/3-A
Client ID:
Operator ID: 001574 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

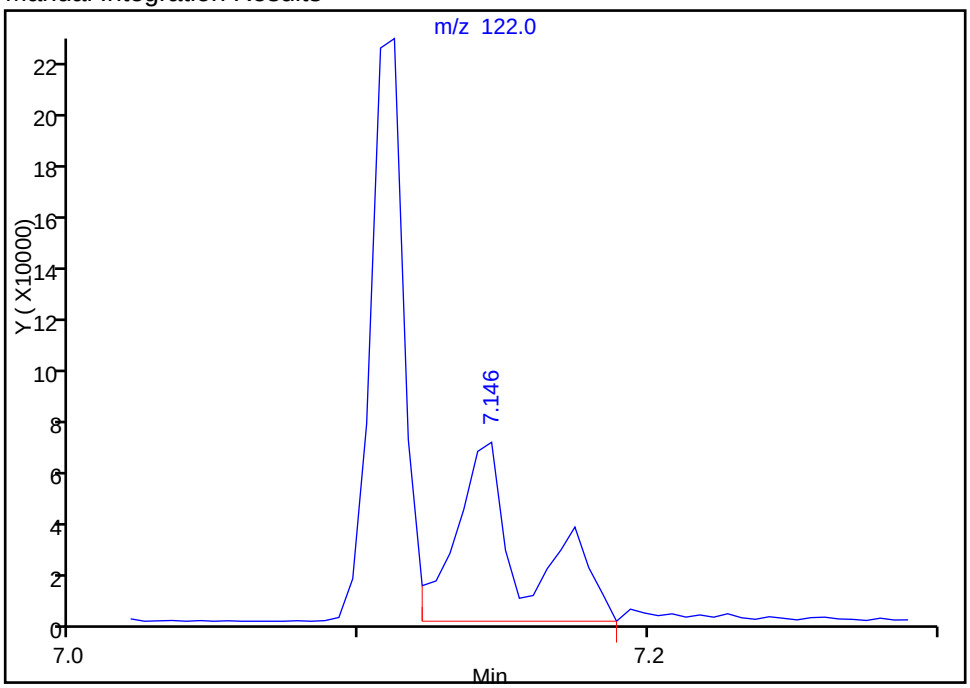
Processing Integration Results

RT: 7.17
Area: 38025
Amount: 3.242238
Amount Units: ng/ul



Manual Integration Results

RT: 7.15
Area: 111881
Amount: 6.733370
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 10:36:18
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176654/9-A

Matrix: Solid | Lab File ID: 50424008.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/16/2015 08:13

Sample wt/vol: 250(mL) | Date Analyzed: 04/24/2015 10:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
110-86-1	Pyridine	0.0583		0.020	0.00050	0.00035
106-46-7	1,4-Dichlorobenzene	0.0633		0.0040	0.00050	0.00034
121-14-2	2,4-Dinitrotoluene	0.0758		0.020	0.00050	0.00025
118-74-1	Hexachlorobenzene	0.0713		0.020	0.00010	0.000085
87-68-3	Hexachlorobutadiene	0.0619		0.020	0.00050	0.00027
67-72-1	Hexachloroethane	0.0620		0.020	0.00050	0.00019
95-48-7	2-Methylphenol	0.0627		0.0040	0.00050	0.00017
15831-10-4	3 & 4 Methylphenol	0.0651		0.040	0.0010	0.00080
98-95-3	Nitrobenzene	0.0686		0.0040	0.00010	0.000040
87-86-5	Pentachlorophenol	0.115		0.040	0.0010	0.00027
95-95-4	2,4,5-Trichlorophenol	0.0674		0.020	0.00050	0.00030
88-06-2	2,4,6-Trichlorophenol	0.0675		0.020	0.00050	0.00024

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	85		22-110
367-12-4	2-Fluorophenol (Surr)	33		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	86		29-111
4165-62-2	Phenol-d5 (Surr)	70		10-110
1718-51-0	Terphenyl-d14 (Surr)	83		40-119
118-79-6	2,4,6-Tribromophenol (Surr)	97		17-117

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424008.D
Lims ID: LCS 240-176654/9-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Apr-2015 10:38:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-008
Misc. Info.: LCS 240-176654/9-ALCS 240-176654/9-A
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 11:26:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.327	6.325	0.002	92	92318	4.00	4.00	
* 2 Naphthalene-d8	136	7.443	7.445	-0.002	98	353801	4.00	4.00	
* 3 Acenaphthene-d10	164	8.953	8.950	0.003	93	214270	4.00	4.00	
* 4 Phenanthrene-d10	188	10.222	10.220	0.002	95	368711	4.00	4.00	
* 5 Chrysene-d12	240	12.506	12.504	0.002	97	458335	4.00	4.00	
* 6 Perylene-d12	264	14.252	14.245	0.007	99	368324	4.00	4.00	
$ 7 2-Fluorophenol	112	5.096	5.097	-0.001	95	111814	10.0	3.29	
$ 8 Phenol-d5	99	5.962	5.962	0.000	95	355835	10.0	7.00	
$ 9 Nitrobenzene-d5	82	6.803	6.804	-0.001	85	553513	10.0	8.60	
$ 10 2-Fluorobiphenyl (Surr)	172	8.351	8.352	-0.001	98	610090	10.0	8.47	
$ 11 2,4,6-Tribromophenol	330	9.621	9.622	-0.001	85	76900	10.0	9.69	
$ 12 Terphenyl-d14	244	11.545	11.545	0.000	99	774080	10.0	8.30	
25 1,4-Dioxane	88	2.869	2.875	-0.006	83	135908	10.0	6.94	
26 N-Nitrosodimethylamine	74	3.398	3.404	-0.006	94	251892	10.0	7.70	
27 Pyridine	79	3.466	3.466	0.000	94	383345	10.0	7.29	
43 Phenol	94	5.976	5.977	-0.001	95	390996	10.0	7.09	
44 Aniline	93	6.019	6.025	-0.006	95	553841	10.0	8.09	
69 Bis(2-chloroethyl)ether	93	6.062	6.063	-0.001	96	396268	10.0	8.58	
46 2-Chlorophenol	128	6.139	6.140	-0.001	89	208594	10.0	6.47	
243 n-Decane	57	6.173	6.174	-0.001	98	305447	NC	NC	
47 1,3-Dichlorobenzene	146	6.284	6.284	0.000	87	271569	10.0	7.78	
48 1,4-Dichlorobenzene	146	6.341	6.342	-0.001	84	280015	10.0	7.91	
49 Benzyl alcohol	108	6.428	6.429	-0.001	85	214349	10.0	8.25	
50 1,2-Dichlorobenzene	146	6.486	6.486	0.000	86	268741	10.0	8.14	
51 2-Methylphenol	108	6.515	6.515	0.000	93	281033	10.0	7.84	
53 2,2'-oxybis[1-chloropropan	45	6.548	6.549	-0.001	97	357514	10.0	9.45	
21 3 & 4 Methylphenol	108	6.644	6.645	-0.001	96	309050	10.0	8.14	
57 N-Nitrosodi-n-propylamine	70	6.659	6.659	0.000	98	344826	10.0	8.69	
58 Acetophenone	105	6.664	6.669	-0.005	88	497808	10.0	9.05	
61 Hexachloroethane	117	6.789	6.794	-0.005	93	130291	10.0	7.75	
62 Nitrobenzene	77	6.822	6.823	-0.001	82	509541	10.0	8.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Isophorone	82	7.024	7.025	-0.001	98	865970	10.0	8.62	
66 2-Nitrophenol	139	7.101	7.102	-0.001	77	126249	10.0	7.69	
65 2,4-Dimethylphenol	107	7.111	7.111	0.000	95	248300	10.0	5.70	
70 Bis(2-chloroethoxy)methane	93	7.188	7.188	0.000	98	454262	10.0	8.98	
73 2,4-Dichlorophenol	162	7.308	7.309	-0.001	92	206978	10.0	7.88	
74 1,2,4-Trichlorobenzene	180	7.390	7.390	0.000	90	237508	10.0	8.21	
75 Naphthalene	128	7.462	7.467	-0.005	95	773436	10.0	8.18	
76 4-Chloroaniline	127	7.481	7.487	-0.006	88	343324	10.0	8.32	
79 Hexachlorobutadiene	225	7.568	7.568	0.000	95	150711	10.0	7.74	
86 4-Chloro-3-methylphenol	107	7.880	7.881	-0.001	88	328581	10.0	8.90	
87 2-Methylnaphthalene	142	8.053	8.054	-0.001	89	495498	10.0	7.98	
88 1-Methylnaphthalene	142	8.140	8.141	-0.001	90	470775	10.0	8.95	
89 Hexachlorocyclopentadiene	237	8.198	8.198	0.000	36	2271	10.0	0.1134	
91 1,2,4,5-Tetrachlorobenzene	216	8.202	8.203	-0.001	97	263587	10.0	8.54	
92 2,4,6-Trichlorophenol	196	8.284	8.285	-0.001	94	173678	10.0	8.43	
93 2,4,5-Trichlorophenol	196	8.318	8.318	0.000	88	181028	10.0	8.42	
98 1,1'-Biphenyl	154	8.438	8.443	-0.005	98	628611	10.0	8.36	
100 2-Chloronaphthalene	162	8.472	8.472	0.000	98	505521	10.0	8.50	
102 2-Nitroaniline	65	8.534	8.535	-0.001	71	285941	10.0	9.48	
105 Dimethyl phthalate	163	8.669	8.670	-0.001	93	614340	10.0	9.19	
106 1,3-Dinitrobenzene	168	8.703	8.703	0.000	80	99397	10.0	9.27	
107 2,6-Dinitrotoluene	165	8.727	8.727	0.000	78	147770	10.0	9.44	
109 Acenaphthylene	152	8.832	8.833	-0.001	98	757183	10.0	8.24	
110 3-Nitroaniline	138	8.876	8.881	-0.005	83	150060	10.0	9.61	
111 2,4-Dinitrophenol	184	8.962	8.968	-0.006	96	113116	20.0	11.8	
112 Acenaphthene	153	8.977	8.982	-0.005	96	518382	10.0	8.67	
113 4-Nitrophenol	109	8.991	8.992	-0.001	87	263923	20.0	17.8	
114 2,4-Dinitrotoluene	165	9.073	9.073	0.000	80	193785	10.0	9.47	
116 Dibenzofuran	168	9.121	9.126	-0.005	94	726716	10.0	8.93	
119 2,3,4,6-Tetrachlorophenol	232	9.217	9.223	-0.005	77	157146	10.0	9.08	
121 Diethyl phthalate	149	9.260	9.261	-0.001	95	609596	10.0	9.03	
247 Hexadecane	57	9.265	9.266	-0.001	93	431305	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.390	9.391	-0.001	94	306454	10.0	8.84	
125 4-Nitroaniline	138	9.400	9.400	0.000	76	138826	10.0	9.18	
126 Fluorene	166	9.414	9.420	-0.006	99	581156	10.0	8.51	
128 4,6-Dinitro-2-methylphenol	198	9.429	9.429	0.000	94	217727	20.0	16.6	
132 1,2-Diphenylhydrazine	77	9.525	9.530	-0.005	98	1063649	10.0	10.3	
133 Azobenzene	77	9.525	9.530	-0.005	95	1063783	10.0	10.3	
139 4-Bromophenyl phenyl ether	248	9.809	9.809	0.000	74	177604	10.0	9.41	
141 Hexachlorobenzene	284	9.900	9.901	-0.001	87	165671	10.0	8.91	
244 n-Octadecane	57	10.044	10.045	-0.001	95	443928	NC	NC	
143 Pentachlorophenol	266	10.049	10.054	-0.005	87	187112	20.0	14.4	
148 Phenanthrene	178	10.241	10.242	-0.001	98	816925	10.0	8.44	
149 Anthracene	178	10.285	10.285	0.000	98	815820	10.0	8.43	
151 Carbazole	167	10.400	10.401	-0.001	98	790456	10.0	9.14	
154 Di-n-butyl phthalate	149	10.640	10.641	-0.001	100	1085843	10.0	10.0	
159 Fluoranthene	202	11.261	11.261	0.000	99	1043635	10.0	9.34	
161 Pyrene	202	11.458	11.463	-0.005	96	1092888	10.0	8.71	
168 Butyl benzyl phthalate	149	11.920	11.925	-0.005	92	500960	10.0	8.58	
173 Bis(2-ethylhexyl) phthalat	149	12.400	12.406	-0.006	95	643727	10.0	8.31	
177 Benzo[a]anthracene	228	12.497	12.497	0.000	97	1093547	10.0	8.49	
178 Chrysene	228	12.530	12.536	-0.006	96	1059331	10.0	9.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
180 Di-n-octyl phthalate	149	13.050	13.055	-0.005	99	1053004	10.0	8.12	
182 Benzo[b]fluoranthene	252	13.704	13.709	-0.005	95	932598	10.0	8.40	
183 Benzo[k]fluoranthene	252	13.742	13.748	-0.006	97	1000990	10.0	8.95	
184 Benzo[a]pyrene	252	14.170	14.176	-0.006	77	826661	10.0	7.80	
188 Indeno[1,2,3-cd]pyrene	276	16.142	16.152	-0.010	98	883858	10.0	8.24	
189 Dibenz(a,h)anthracene	278	16.151	16.162	-0.011	88	719710	10.0	8.13	
190 Benzo[g,h,i]perylene	276	16.728	16.739	-0.011	97	731460	10.0	8.22	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

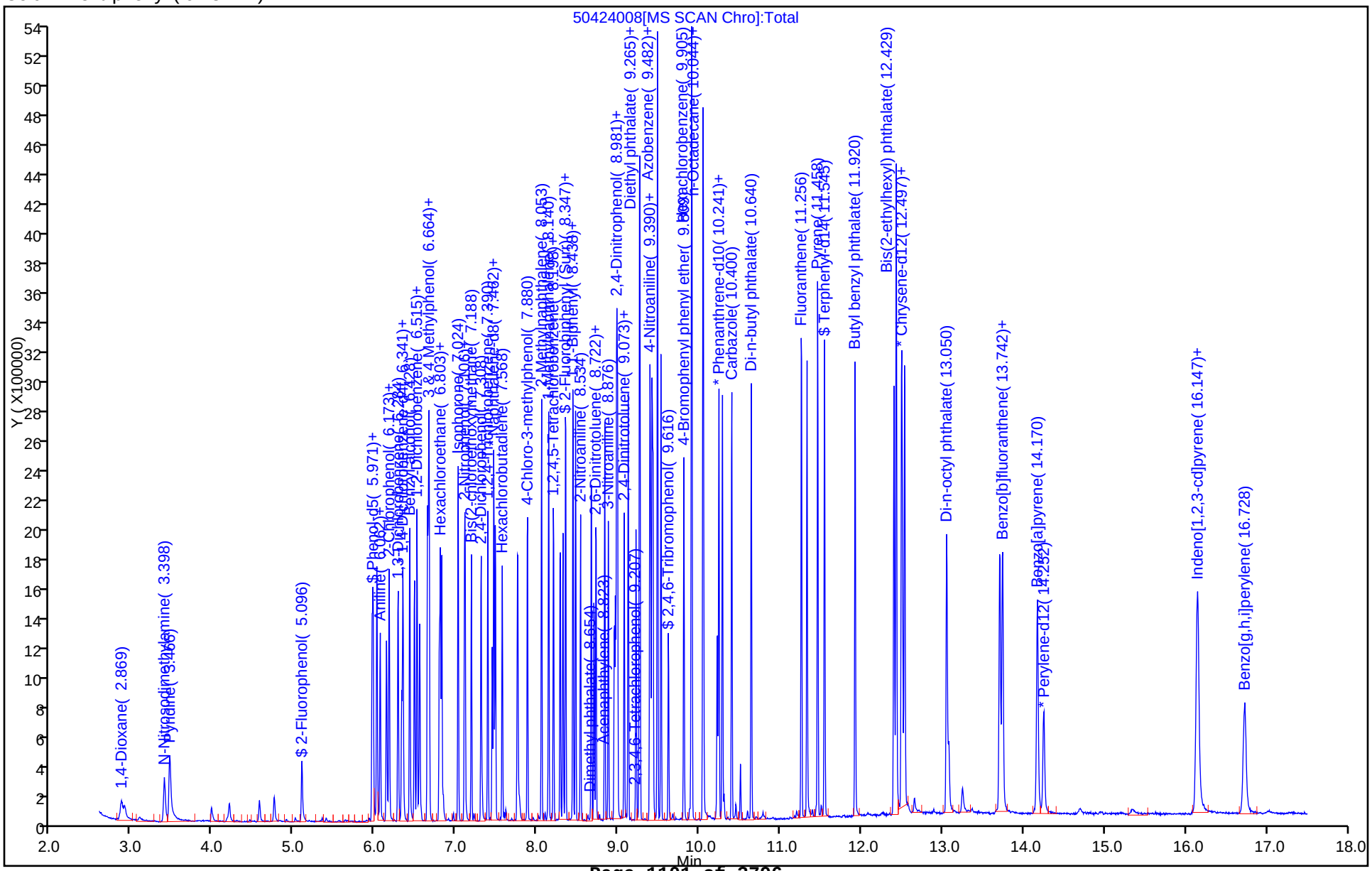
Report Date: 27-Apr-2015 09:33:40 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424008.D

Injection Date:	24-Apr-2015 10:38:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	LCS 240-176654/9-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177779/3

Matrix: Solid | Lab File ID: 50424003.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2015 08:34

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.82		0.00020	0.00010	0.000044
208-96-8	Acenaphthylene	4.81		0.00020	0.00010	0.000048
120-12-7	Anthracene	4.99		0.00020	0.00010	0.000088
56-55-3	Benzo[a]anthracene	4.92		0.00020	0.00010	0.000030
50-32-8	Benzo[a]pyrene	4.91		0.00020	0.00010	0.000051
205-99-2	Benzo[b]fluoranthene	4.62		0.00020	0.00010	0.000039
191-24-2	Benzo[g,h,i]perylene	4.94		0.00020	0.00010	0.000046
65-85-0	Benzoic acid	9.82		0.025	0.020	0.010
207-08-9	Benzo[k]fluoranthene	5.27		0.00020	0.00010	0.000045
100-51-6	Benzyl alcohol	5.12		0.0050	0.00050	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.02		0.0010	0.00050	0.00032
111-44-4	Bis(2-chloroethyl)ether	4.93		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	5.36		0.0010	0.00050	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	4.95		0.0050	0.00050	0.0017
101-55-3	4-Bromophenyl phenyl ether	5.51		0.0020	0.00050	0.00022
85-68-7	Butyl benzyl phthalate	4.76		0.0020	0.0050	0.00026
86-74-8	Carbazole	5.16		0.0010	0.00050	0.00028
106-47-8	4-Chloroaniline	4.85	M	0.0020	0.00050	0.00021
110-86-1	Pyridine	4.95		0.0010	0.00050	0.00035
59-50-7	4-Chloro-3-methylphenol	5.12		0.0020	0.00050	0.00021
91-58-7	2-Chloronaphthalene	4.87		0.0010	0.00050	0.00010
95-57-8	2-Chlorophenol	5.07		0.0010	0.00050	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	5.04		0.0020	0.00050	0.00030
218-01-9	Chrysene	5.00		0.00020	0.00010	0.000050
53-70-3	Dibenz(a,h)anthracene	4.92		0.00020	0.00010	0.000045
132-64-9	Dibenzofuran	4.87		0.0010	0.00010	0.000020
95-50-1	1,2-Dichlorobenzene	5.33		0.0010	0.00050	0.00029
541-73-1	1,3-Dichlorobenzene	5.18		0.0010	0.00050	0.00023
106-46-7	1,4-Dichlorobenzene	5.28		0.0010	0.00050	0.00034
91-94-1	3,3'-Dichlorobenzidine	9.74		0.0050	0.0010	0.00037
120-83-2	2,4-Dichlorophenol	4.96		0.0020	0.00050	0.00019
84-66-2	Diethyl phthalate	5.02		0.0020	0.0010	0.00060
105-67-9	2,4-Dimethylphenol	4.92		0.0020	0.00050	0.00025
131-11-3	Dimethyl phthalate	5.12		0.0020	0.00050	0.00029

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177779/3

Matrix: Solid | Lab File ID: 50424003.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2015 08:34

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
84-74-2	Di-n-butyl phthalate	5.36		0.0050	0.0050	0.0017
534-52-1	4,6-Dinitro-2-methylphenol	10.3		0.0050	0.0040	0.0024
51-28-5	2,4-Dinitrophenol	9.94		0.0050	0.0010	0.00032
121-14-2	2,4-Dinitrotoluene	5.21		0.0050	0.00050	0.00025
606-20-2	2,6-Dinitrotoluene	5.05		0.0050	0.0050	0.0011
117-84-0	Di-n-octyl phthalate	4.79		0.0020	0.00050	0.00023
206-44-0	Fluoranthene	5.18		0.00020	0.00010	0.000045
86-73-7	Fluorene	4.86		0.00020	0.00010	0.000041
118-74-1	Hexachlorobenzene	5.41		0.00020	0.00010	0.000085
87-68-3	Hexachlorobutadiene	4.94		0.0010	0.00050	0.00027
77-47-4	Hexachlorocyclopentadiene	4.97		0.010	0.00050	0.00024
67-72-1	Hexachloroethane	5.44		0.0010	0.00050	0.00019
193-39-5	Indeno[1,2,3-cd]pyrene	4.86		0.00020	0.00010	0.000043
78-59-1	Isophorone	4.85		0.0010	0.00050	0.00027
91-57-6	2-Methylnaphthalene	4.74		0.00020	0.00010	0.000090
95-48-7	2-Methylphenol	5.15		0.0010	0.00050	0.00017
15831-10-4	3 & 4 Methylphenol	5.07		0.0020	0.0010	0.00080
91-20-3	Naphthalene	4.70		0.00020	0.00010	0.000063
88-74-4	2-Nitroaniline	5.03		0.0020	0.00050	0.00021
99-09-2	3-Nitroaniline	5.21		0.0020	0.00050	0.00028
100-01-6	4-Nitroaniline	4.71		0.0020	0.00050	0.00022
98-95-3	Nitrobenzene	4.76		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	5.00		0.0020	0.00050	0.00028
100-02-7	4-Nitrophenol	10.0		0.0050	0.0040	0.00029
621-64-7	N-Nitrosodi-n-propylamine	5.28		0.0010	0.00050	0.00024
86-30-6	N-Nitrosodiphenylamine	11.0		0.0010	0.00050	0.00031
87-86-5	Pentachlorophenol	9.10		0.0050	0.0010	0.00027
85-01-8	Phenanthrene	4.96		0.00020	0.00010	0.000062
108-95-2	Phenol	5.05		0.0010	0.0010	0.00060
129-00-0	Pyrene	4.94		0.00020	0.00010	0.000042
120-82-1	1,2,4-Trichlorobenzene	4.94		0.0010	0.00050	0.00028
95-95-4	2,4,5-Trichlorophenol	5.05		0.0050	0.00050	0.00030
88-06-2	2,4,6-Trichlorophenol	4.86		0.0050	0.00050	0.00024

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177779/3

Matrix: Solid | Lab File ID: 50424003.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2015 08:34

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	94		70-130
367-12-4	2-Fluorophenol (Surr)	107		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	97		50-150
4165-62-2	Phenol-d5 (Surr)	99		50-150
1718-51-0	Terphenyl-d14 (Surr)	98		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	108		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424003.D
Lims ID: mrl qc
Client ID:
Sample Type: MRL
Inject. Date: 24-Apr-2015 08:34:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-003
Misc. Info.: MRL QCMRL QC
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:27 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 09:01:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.328	6.328	0.000	94	116883	4.00	4.00	
* 2 Naphthalene-d8	136	7.444	7.448	-0.004	99	462031	4.00	4.00	
* 3 Acenaphthene-d10	164	8.949	8.953	-0.004	91	286264	4.00	4.00	
* 4 Phenanthrene-d10	188	10.218	10.223	-0.005	98	471050	4.00	4.00	
* 5 Chrysene-d12	240	12.507	12.512	-0.005	97	581371	4.00	4.00	
* 6 Perylene-d12	264	14.248	14.253	-0.005	99	481170	4.00	4.00	
$ 7 2-Fluorophenol	112	5.097	5.097	0.000	95	230518	5.00	5.36	
$ 8 Phenol-d5	99	5.963	5.962	0.001	94	317494	5.00	4.93	
$ 9 Nitrobenzene-d5	82	6.804	6.804	0.000	85	408161	5.00	4.85	
$ 10 2-Fluorobiphenyl (Surr)	172	8.348	8.352	-0.004	99	451878	5.00	4.69	
$ 11 2,4,6-Tribromophenol	330	9.617	9.622	-0.005	81	57091	5.00	5.39	
$ 12 Terphenyl-d14	244	11.546	11.545	0.001	99	578719	5.00	4.89	
25 1,4-Dioxane	88	2.866	2.875	-0.009	89	116722	5.00	4.71	
26 N-Nitrosodimethylamine	74	3.399	3.404	-0.005	93	197947	5.00	4.78	
27 Pyridine	79	3.467	3.466	0.001	93	329622	5.00	4.95	
20 Dimethylformamide	73		3.978					ND	
28 Ethyl methacrylate	69		4.089					ND	
31 2-Picoline	93		4.464					ND	
32 N-Nitrosomethylethylamine	88		4.579					ND	
35 Acrylamide	71		4.853					ND	
34 Methyl methanesulfonate	80		4.897					ND	
233 n,n'-Dimethylacetamide	44		4.993					ND	
36 N-Nitrosodiethylamine	102		5.320					ND	
37 Ethyl methanesulfonate	79		5.589					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.820					ND	
39 3-Methylcyclohexanone	69		5.854					ND	
40 4-Methylcyclohexanone	55		5.902					ND	
41 Benzaldehyde	77	5.924	5.928	-0.004	89	477803	10.0	9.79	
43 Phenol	94	5.972	5.977	-0.005	95	352077	5.00	5.05	
44 Aniline	93	6.020	6.025	-0.005	94	441919	5.00	5.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93	6.064	6.063	0.001	96	288566	5.00	4.93	
45 Pentachloroethane	167		6.080					ND	
46 2-Chlorophenol	128	6.140	6.140	0.000	88	207144	5.00	5.07	
243 n-Decane	57		6.174				ND	ND	
47 1,3-Dichlorobenzene	146	6.280	6.284	-0.004	87	228828	5.00	5.18	
48 1,4-Dichlorobenzene	146	6.342	6.342	0.000	85	236656	5.00	5.28	
232 1-Methyl-2-pyrrilidinone	99		6.421					ND	
49 Benzyl alcohol	108	6.424	6.429	-0.005	86	168475	5.00	5.12	
50 1,2-Dichlorobenzene	146	6.487	6.486	0.001	85	222637	5.00	5.33	
51 2-Methylphenol	108	6.516	6.515	0.001	92	233726	5.00	5.15	
53 2,2'-oxybis[1-chloropropan	45	6.549	6.549	0.000	99	256531	5.00	5.36	
52 Indene	115	6.564	6.563	0.001	89	849020	10.0	10.3	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
56 N-Nitrosopyrrolidine	100		6.633					ND	
21 3 & 4 Methylphenol	108	6.645	6.645	0.000	95	243906	5.00	5.07	
57 N-Nitrosodi-n-propylamine	70	6.655	6.659	-0.004	97	265249	5.00	5.28	
59 N-Nitrosomorpholine	56		6.661					ND	
58 Acetophenone	105	6.665	6.669	-0.004	89	369443	5.00	5.31	
60 2-Toluidine	106		6.700					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
61 Hexachloroethane	117	6.790	6.794	-0.004	93	115737	5.00	5.44	
62 Nitrobenzene	77	6.819	6.823	-0.005	83	369962	5.00	4.76	
63 N-Nitrosopiperidine	114		6.945					ND	
64 Isophorone	82	7.025	7.025	0.000	98	636806	5.00	4.85	
66 2-Nitrophenol	139	7.102	7.102	0.000	81	107205	5.00	5.00	
65 2,4-Dimethylphenol	107	7.107	7.111	-0.004	96	280197	5.00	4.92	
67 1,3,5-Trichlorobenzene	180		7.123					ND	
68 o,o',o''-Triethylphosphoro	198		7.162					ND	
71 Benzoic acid	122	7.155	7.174	-0.019	83	234046	10.0	9.82	
70 Bis(2-chloroethoxy)methane	93	7.184	7.188	-0.004	97	331537	5.00	5.02	
72 alpha,alpha-Dimethyl phene	58		7.277					ND	
73 2,4-Dichlorophenol	162	7.304	7.309	-0.005	91	170079	5.00	4.96	
74 1,2,4-Trichlorobenzene	180	7.391	7.390	0.001	90	186562	5.00	4.94	
75 Naphthalene	128	7.463	7.467	-0.004	95	580811	5.00	4.70	
76 4-Chloroaniline	127	7.482	7.487	-0.005	88	261687	5.00	4.85	M
77 2,6-Dichlorophenol	162	7.501	7.501	0.000	87	165684	5.00	4.92	
78 Hexachloropropene	213		7.546					ND	
79 Hexachlorobutadiene	225	7.569	7.568	0.001	96	125644	5.00	4.94	
80 1,2,3-Trichlorobenzene	180		7.590					ND	
81 Benzothiazole	135		7.676					ND	
82 Quinoline	129		7.739					ND	
83 N-Nitrosodi-n-butylamine	84		7.753					ND	
84 Caprolactam	113	7.761	7.770	-0.009	84	142121	10.0	9.83	
85 p-Phenylene diamine	108		7.777					ND	
86 4-Chloro-3-methylphenol	107	7.876	7.881	-0.005	89	246945	5.00	5.12	
94 Safrole, Total	162		7.955					ND	
87 2-Methylnaphthalene	142	8.054	8.054	0.000	89	384645	5.00	4.74	
88 1-Methylnaphthalene	142	8.141	8.141	0.000	90	334487	5.00	4.87	
90 1,2,3,5-Tetrachlorobenzene	216		8.191					ND	
89 Hexachlorocyclopentadiene	237	8.194	8.198	-0.004	96	132873	5.00	4.97	
225 Isosafrole Peak 1	162		8.200					ND	
91 1,2,4,5-Tetrachlorobenzene	216	8.199	8.203	-0.004	94	201033	5.00	4.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196	8.280	8.285	-0.005	94	133649	5.00	4.86	
93 2,4,5-Trichlorophenol	196	8.314	8.318	-0.004	91	144947	5.00	5.05	
227 Isosafrole Peak 2	162		8.393					ND	
97 2,4-Toluene diamine	121		8.412					ND	
98 1,1'-Biphenyl	154	8.439	8.443	-0.004	98	468941	5.00	4.67	
99 1,2,3,4 -Tetrachlorobenzen	216		8.446					ND	
96 3,4-Dichloronitrobenzene	109		8.465					ND	
100 2-Chloronaphthalene	162	8.473	8.472	0.001	99	387079	5.00	4.87	
246 1-Chloronaphthalene	162		8.498					ND	
101 Phenyl ether	170		8.523					ND	
102 2-Nitroaniline	65	8.535	8.535	0.000	72	202767	5.00	5.03	
103 1,4-Naphthoquinone	158		8.604					ND	
104 1,4-Dinitrobenzene	168		8.628					ND	
105 Dimethyl phthalate	163	8.665	8.670	-0.005	94	457330	5.00	5.12	
106 1,3-Dinitrobenzene	168	8.699	8.703	-0.004	80	73315	5.00	5.12	
107 2,6-Dinitrotoluene	165	8.723	8.727	-0.004	77	105702	5.00	5.05	
109 Acenaphthylene	152	8.833	8.833	0.000	98	590696	5.00	4.81	
110 3-Nitroaniline	138	8.877	8.881	-0.004	83	108744	5.00	5.21	
111 2,4-Dinitrophenol	184	8.963	8.968	-0.005	96	121765	10.0	9.94	
112 Acenaphthene	153	8.978	8.982	-0.004	98	384578	5.00	4.82	
113 4-Nitrophenol	109	8.987	8.992	-0.005	86	198537	10.0	10.0	
114 2,4-Dinitrotoluene	165	9.074	9.073	0.001	81	142314	5.00	5.21	
115 Pentachlorobenzene	250		9.095					ND	
116 Dibenzofuran	168	9.122	9.126	-0.004	94	529483	5.00	4.87	
117 1-Naphthylamine	143		9.176					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.181					ND	
119 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.004	76	125128	5.00	5.41	
120 2-Naphthylamine	143		9.244					ND	
121 Diethyl phthalate	149	9.261	9.261	0.000	95	452775	5.00	5.02	
247 Hexadecane	57		9.266				ND	ND	
122 Thionazin	97		9.330					ND	
123 4-Chlorophenyl phenyl ethe	204	9.391	9.391	0.000	95	233234	5.00	5.04	
124 N-Nitro-o-toluidine	152		9.398					ND	
125 4-Nitroaniline	138	9.396	9.400	-0.004	76	95198	5.00	4.71	
127 Tributyl phosphate	99		9.417					ND	
126 Fluorene	166	9.415	9.420	-0.005	100	443682	5.00	4.86	
128 4,6-Dinitro-2-methylphenol	198	9.425	9.429	-0.004	94	166846	10.0	10.3	
130 Diphenylamine	169		9.484					ND	
131 N-Nitrosodiphenylamine	169	9.483	9.487	-0.004	98	693666	10.0	11.0	
297 Benzophenone	105		9.512					ND	
132 1,2-Diphenylhydrazine	77	9.526	9.530	-0.004	98	742900	5.00	5.65	
133 Azobenzene	77	9.526	9.530	-0.004	96	742302	5.00	5.64	
134 Sulfotepp	202		9.585					ND	
135 1,3,5-Trinitrobenzene	213		9.662					ND	
137 Phenacetin	108		9.715					ND	
228 Diallate Peak 1	86		9.720					ND	
138 Phorate	121		9.729					ND	
230 Diallate Peak 2	86		9.802					ND	
139 4-Bromophenyl phenyl ether	248	9.810	9.809	0.001	75	132894	5.00	5.51	
140 Dimethoate	87		9.869					ND	
141 Hexachlorobenzene	284	9.901	9.901	0.000	90	128555	5.00	5.41	
142 Atrazine	200	9.906	9.910	-0.004	90	267547	10.0	11.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.028					ND	
244 n-Octadecane	57		10.045				ND	ND	
143 Pentachlorophenol	266	10.050	10.054	-0.004	87	148420	10.0	9.10	
144 Pronamide	173		10.052					ND	
145 Pentachloronitrobenzene	237		10.066					ND	
146 Disulfoton	88		10.167					ND	
147 Dinoseb	211		10.181					ND	
148 Phenanthrene	178	10.242	10.242	0.000	98	613266	5.00	4.96	
149 Anthracene	178	10.286	10.285	0.001	98	616876	5.00	4.99	
151 Carbazole	167	10.396	10.401	-0.005	97	570234	5.00	5.16	
152 Methyl parathion	109		10.494					ND	
154 Di-n-butyl phthalate	149	10.642	10.641	0.001	100	740865	5.00	5.36	
153 Diphenylsulfone	125		10.672					ND	
155 Ethyl Parathion	97		10.816					ND	
156 4-Nitroquinoline-1-oxide	190		10.874					ND	
157 Methapyrilene	58		10.917					ND	
158 Isodrin	66		11.138					ND	
159 Fluoranthene	202	11.257	11.261	-0.004	99	739932	5.00	5.18	
160 Benzidine	184	11.329	11.329	0.000	98	859698	10.0	10.2	
161 Pyrene	202	11.459	11.463	-0.004	96	787396	5.00	4.94	
226 Aramite Peak 1	185		11.489					ND	
229 Aramite Peak 2	185		11.547					ND	
163 p-Dimethylamino azobenzene	225		11.658					ND	
164 Chlorobenzilate	139		11.682					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.889					ND	
168 Butyl benzyl phthalate	149	11.921	11.925	-0.004	91	352398	5.00	4.76	
169 3,3'-Dimethylbenzidine	212		11.937					ND	
171 2-Acetylaminofluorene	181		12.163					ND	
172 3,3'-Dimethoxybenzidine	244		12.379					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.402	12.406	-0.004	95	486640	5.00	4.95	
174 4,4'-Methylene bis(2-chlor	231		12.418					ND	
175 3,3'-Dichlorobenzidine	252	12.430	12.435	-0.005	76	516182	10.0	9.74	
177 Benzo[a]anthracene	228	12.493	12.497	-0.004	97	803095	5.00	4.92	
178 Chrysene	228	12.531	12.536	-0.005	96	746889	5.00	5.00	
176 Hexabromobenzene	232		12.543					ND	
179 6-Methylchrysene	242		12.995					ND	
180 Di-n-octyl phthalate	149	13.051	13.055	-0.004	99	812213	5.00	4.79	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.677					ND	
182 Benzo[b]fluoranthene	252	13.705	13.709	-0.004	95	669822	5.00	4.62	
183 Benzo[k]fluoranthene	252	13.738	13.748	-0.010	97	769501	5.00	5.27	
184 Benzo[a]pyrene	252	14.166	14.176	-0.010	76	679836	5.00	4.91	
185 3-Methylcholanthrene	268		14.692					ND	
187 Dibenz[a,h]acridine	279		15.649					ND	
186 Dibenz[a,j]acridine	279		15.746					ND	
188 Indeno[1,2,3-cd]pyrene	276	16.143	16.152	-0.009	95	681105	5.00	4.86	
189 Dibenz(a,h)anthracene	278	16.148	16.162	-0.014	78	569157	5.00	4.92	
190 Benzo[g,h,i]perylene	276	16.720	16.739	-0.019	97	574020	5.00	4.94	
259 o-Phenylphenol	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
266 Heptachlor	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
263 Heptachlor epoxide	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
270 Toxaphene	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
268 Endrin	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
258 Aldrin	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.491					ND	
165 4,4'-DDD	235		11.775					ND	
170 4,4'-DDT	235		12.039					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100				0				10.2
S 245 Total Cresols	100				0				10.2
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110		5.000					ND	
T 194 Decane TIC	142		5.800					ND	
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121		7.250					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121		7.364					ND	
T 236 3-isopropylphenol TIC	121		7.364					ND	
T 237 3-(1,1-Dimethylethyl Pheno	135		7.720					ND	
T 231 2,3,7,8-TCDD	322		8.240					ND	
T 195 Hydroquinone TIC	110		9.000					ND	
T 192 Octadecane (TIC)	254		9.600					ND	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326		12.000					ND	
T 280 2,3,7,8-TCDD TIC	198		12.500					ND	
T 241 Tricresyl phosphate TIC	368		12.500					ND	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201		14.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L5 W_00005 Amount Added: 1.00 Units: mL

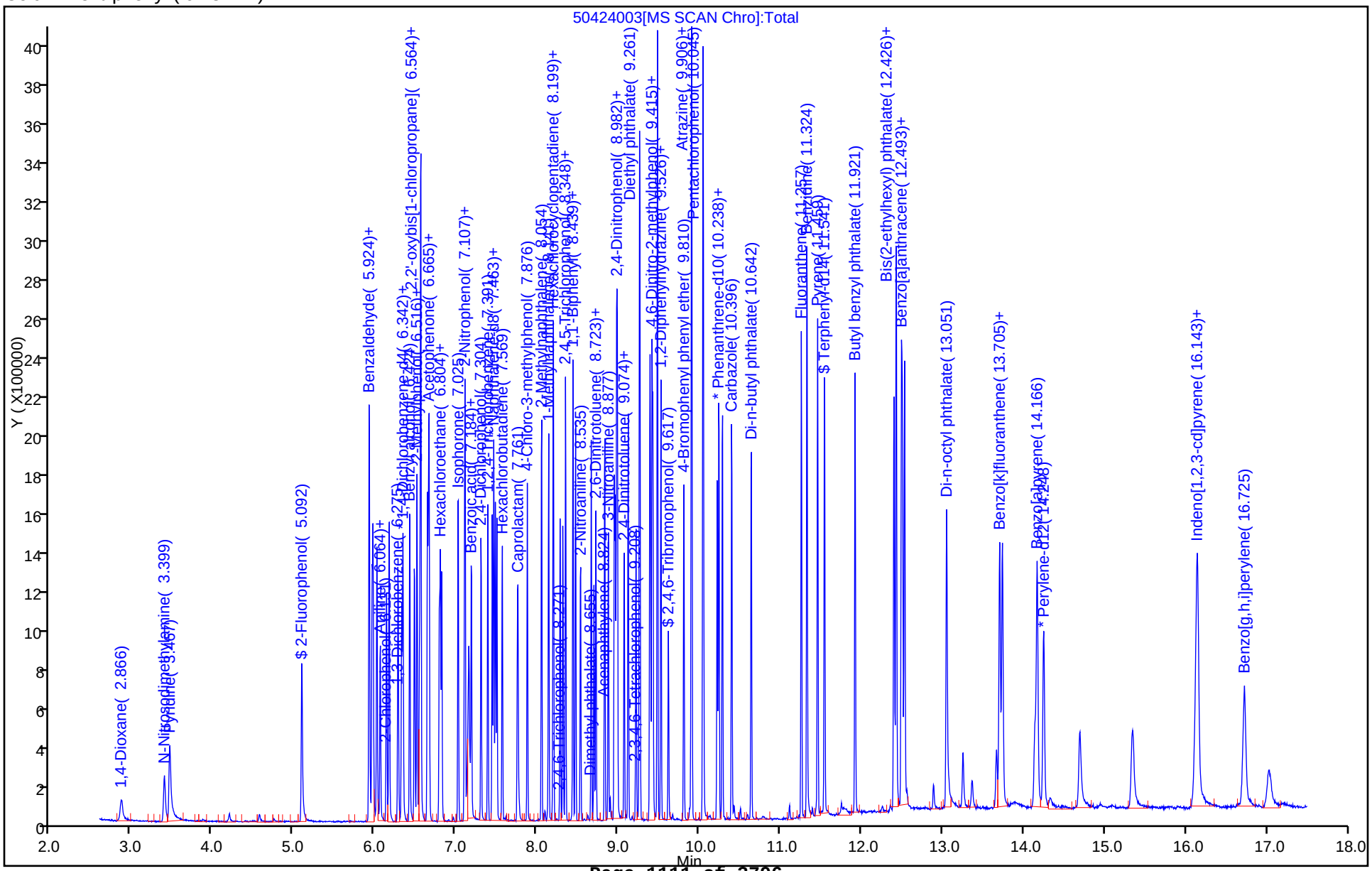
Report Date: 27-Apr-2015 09:33:30 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424003.D

Injection Date:	24-Apr-2015 08:34:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	mrl qc			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

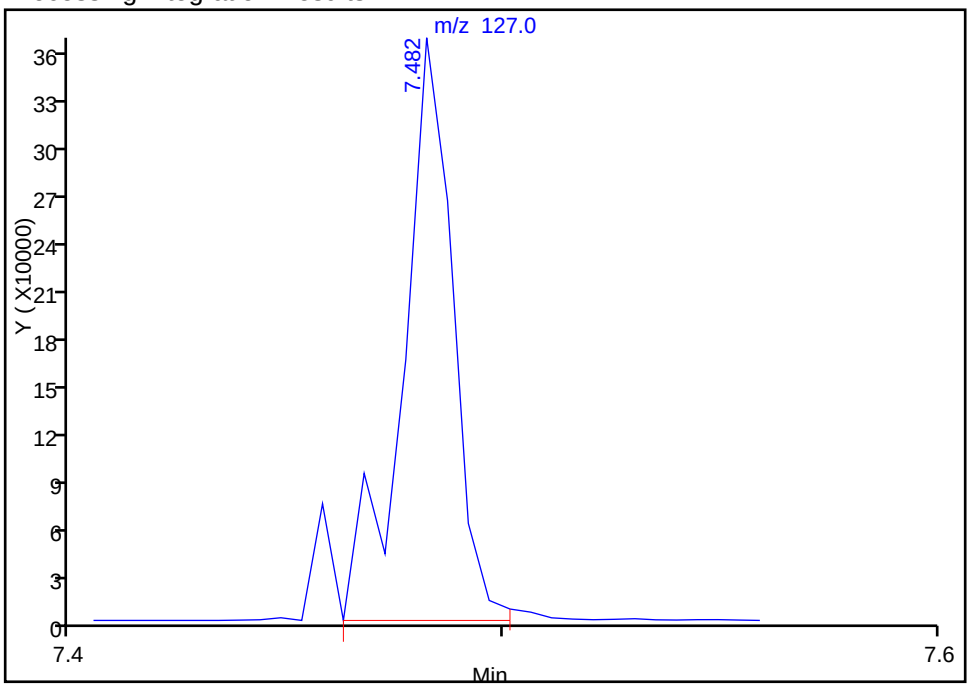
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424003.D
Injection Date: 24-Apr-2015 08:34:30 Instrument ID: A4HP9
Lims ID: mrl qc
Client ID:
Operator ID: 001574 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

76 4-Chloroaniline, CAS: 106-47-8

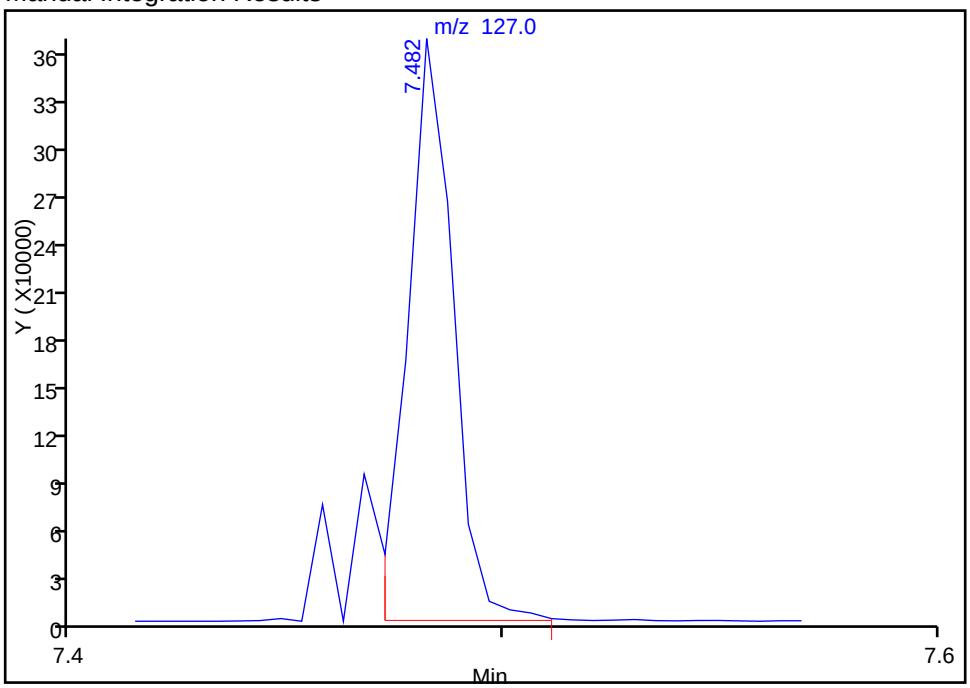
Processing Integration Results

RT: 7.48
Area: 287436
Amount: 5.332300
Amount Units: ng/ul



Manual Integration Results

RT: 7.48
Area: 261687
Amount: 4.854623
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 09:01:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177779/17

Matrix: Solid | Lab File ID: 50424017.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2015 14:23

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.72		0.00020	0.00010	0.000044
208-96-8	Acenaphthylene	4.86		0.00020	0.00010	0.000048
120-12-7	Anthracene	4.94		0.00020	0.00010	0.000088
56-55-3	Benzo[a]anthracene	4.85		0.00020	0.00010	0.000030
50-32-8	Benzo[a]pyrene	4.94		0.00020	0.00010	0.000051
205-99-2	Benzo[b]fluoranthene	4.72		0.00020	0.00010	0.000039
191-24-2	Benzo[g,h,i]perylene	4.79		0.00020	0.00010	0.000046
65-85-0	Benzoic acid	8.79	M	0.025	0.020	0.010
207-08-9	Benzo[k]fluoranthene	5.00		0.00020	0.00010	0.000045
100-51-6	Benzyl alcohol	4.61		0.0050	0.00050	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.01		0.0010	0.00050	0.00032
111-44-4	Bis(2-chloroethyl)ether	4.69		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	5.11		0.0010	0.00050	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	5.02		0.0050	0.00050	0.0017
101-55-3	4-Bromophenyl phenyl ether	5.21		0.0020	0.00050	0.00022
85-68-7	Butyl benzyl phthalate	4.89		0.0020	0.0050	0.00026
86-74-8	Carbazole	4.94		0.0010	0.00050	0.00028
106-47-8	4-Chloroaniline	5.20		0.0020	0.00050	0.00021
110-86-1	Pyridine	4.55		0.0010	0.00050	0.00035
59-50-7	4-Chloro-3-methylphenol	5.15		0.0020	0.00050	0.00021
91-58-7	2-Chloronaphthalene	4.77		0.0010	0.00050	0.00010
95-57-8	2-Chlorophenol	4.74		0.0010	0.00050	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.89		0.0020	0.00050	0.00030
218-01-9	Chrysene	4.88		0.00020	0.00010	0.000050
53-70-3	Dibenz(a,h)anthracene	4.93		0.00020	0.00010	0.000045
132-64-9	Dibenzofuran	4.99		0.0010	0.00010	0.000020
95-50-1	1,2-Dichlorobenzene	4.99		0.0010	0.00050	0.00029
541-73-1	1,3-Dichlorobenzene	4.83		0.0010	0.00050	0.00023
106-46-7	1,4-Dichlorobenzene	4.85		0.0010	0.00050	0.00034
91-94-1	3,3'-Dichlorobenzidine	9.15		0.0050	0.0010	0.00037
120-83-2	2,4-Dichlorophenol	5.08		0.0020	0.00050	0.00019
84-66-2	Diethyl phthalate	5.09		0.0020	0.0010	0.00060
105-67-9	2,4-Dimethylphenol	5.00		0.0020	0.00050	0.00025
131-11-3	Dimethyl phthalate	5.13		0.0020	0.00050	0.00029

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177779/17

Matrix: Solid | Lab File ID: 50424017.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2015 14:23

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
84-74-2	Di-n-butyl phthalate	5.03		0.0050	0.0050	0.0017
534-52-1	4,6-Dinitro-2-methylphenol	4.42	^	0.0050	0.0040	0.0024
51-28-5	2,4-Dinitrophenol	4.84	^	0.0050	0.0010	0.00032
121-14-2	2,4-Dinitrotoluene	5.28		0.0050	0.00050	0.00025
606-20-2	2,6-Dinitrotoluene	4.89		0.0050	0.0050	0.0011
117-84-0	Di-n-octyl phthalate	5.02		0.0020	0.00050	0.00023
206-44-0	Fluoranthene	4.93		0.00020	0.00010	0.000045
86-73-7	Fluorene	4.98		0.00020	0.00010	0.000041
118-74-1	Hexachlorobenzene	4.80		0.00020	0.00010	0.000085
87-68-3	Hexachlorobutadiene	4.95		0.0010	0.00050	0.00027
77-47-4	Hexachlorocyclopentadiene	2.69	^	0.010	0.00050	0.00024
67-72-1	Hexachloroethane	4.93		0.0010	0.00050	0.00019
193-39-5	Indeno[1,2,3-cd]pyrene	4.96		0.00020	0.00010	0.000043
78-59-1	Isophorone	4.99		0.0010	0.00050	0.00027
91-57-6	2-Methylnaphthalene	4.67		0.00020	0.00010	0.000090
95-48-7	2-Methylphenol	4.98		0.0010	0.00050	0.00017
15831-10-4	3 & 4 Methylphenol	4.87		0.0020	0.0010	0.00080
91-20-3	Naphthalene	4.87		0.00020	0.00010	0.000063
88-74-4	2-Nitroaniline	5.10		0.0020	0.00050	0.00021
99-09-2	3-Nitroaniline	5.26		0.0020	0.00050	0.00028
100-01-6	4-Nitroaniline	4.71		0.0020	0.00050	0.00022
98-95-3	Nitrobenzene	4.74		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	4.89		0.0020	0.00050	0.00028
100-02-7	4-Nitrophenol	9.69		0.0050	0.0040	0.00029
621-64-7	N-Nitrosodi-n-propylamine	4.92		0.0010	0.00050	0.00024
86-30-6	N-Nitrosodiphenylamine	10.4		0.0010	0.00050	0.00031
87-86-5	Pentachlorophenol	8.76		0.0050	0.0010	0.00027
85-01-8	Phenanthrene	4.87		0.00020	0.00010	0.000062
108-95-2	Phenol	4.91		0.0010	0.0010	0.00060
129-00-0	Pyrene	4.90		0.00020	0.00010	0.000042
120-82-1	1,2,4-Trichlorobenzene	4.91		0.0010	0.00050	0.00028
95-95-4	2,4,5-Trichlorophenol	4.94		0.0050	0.00050	0.00030
88-06-2	2,4,6-Trichlorophenol	5.14		0.0050	0.00050	0.00024

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177779/17

Matrix: Solid | Lab File ID: 50424017.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2015 14:23

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177779 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	95		70-130
367-12-4	2-Fluorophenol (Surr)	101		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	95		50-150
4165-62-2	Phenol-d5 (Surr)	96		50-150
1718-51-0	Terphenyl-d14 (Surr)	98		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	113		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424017.D
Lims ID: mrl qccl
Client ID:
Sample Type: MRL
Inject. Date: 24-Apr-2015 14:23:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042899-017
Misc. Info.: MRL QCCLMRL QCCL
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 27-Apr-2015 09:33:32 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: ulmanm Date: 24-Apr-2015 15:06:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.330	6.325	0.005	92	128975	4.00	4.00	
* 2 Naphthalene-d8	136	7.445	7.445	0.000	99	483106	4.00	4.00	
* 3 Acenaphthene-d10	164	8.950	8.950	0.000	92	301950	4.00	4.00	
* 4 Phenanthrene-d10	188	10.220	10.220	0.000	95	528572	4.00	4.00	
* 5 Chrysene-d12	240	12.509	12.504	0.005	97	611711	4.00	4.00	
* 6 Perylene-d12	264	14.250	14.245	0.005	98	513616	4.00	4.00	
$ 7 2-Fluorophenol	112	5.094	5.097	-0.003	95	238808	5.00	5.03	
$ 8 Phenol-d5	99	5.964	5.962	0.002	95	342454	5.00	4.82	
$ 9 Nitrobenzene-d5	82	6.806	6.804	0.002	85	416449	5.00	4.74	
$ 10 2-Fluorobiphenyl (Surr)	172	8.349	8.352	-0.003	99	482422	5.00	4.75	
$ 11 2,4,6-Tribromophenol	330	9.619	9.622	-0.003	83	63157	5.00	5.65	
$ 12 Terphenyl-d14	244	11.542	11.545	-0.003	99	610365	5.00	4.90	
25 1,4-Dioxane	88	2.867	2.875	-0.008	90	113907	5.00	4.16	
26 N-Nitrosodimethylamine	74	3.396	3.404	-0.008	91	204253	5.00	4.47	
27 Pyridine	79	3.468	3.466	0.002	93	334502	5.00	4.55	
20 Dimethylformamide	73		3.978					ND	
28 Ethyl methacrylate	69		4.089					ND	
31 2-Picoline	93		4.464					ND	
32 N-Nitrosomethylethylamine	88		4.579					ND	
35 Acrylamide	71		4.853					ND	
34 Methyl methanesulfonate	80		4.897					ND	
233 n,n'-Dimethylacetamide	44		4.993					ND	
36 N-Nitrosodiethylamine	102		5.320					ND	
37 Ethyl methanesulfonate	79		5.589					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.820					ND	
39 3-Methylcyclohexanone	69		5.854					ND	
40 4-Methylcyclohexanone	55		5.902					ND	
41 Benzaldehyde	77	5.926	5.928	-0.002	89	497244	10.0	9.24	
43 Phenol	94	5.974	5.977	-0.003	96	378179	5.00	4.91	
44 Aniline	93	6.022	6.025	-0.003	95	453883	5.00	4.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93	6.060	6.063	-0.003	96	302769	5.00	4.69	
45 Pentachloroethane	167		6.080					ND	
46 2-Chlorophenol	128	6.137	6.140	-0.003	88	213594	5.00	4.74	
243 n-Decane	57		6.174				ND	ND	
47 1,3-Dichlorobenzene	146	6.282	6.284	-0.002	88	235361	5.00	4.83	
48 1,4-Dichlorobenzene	146	6.344	6.342	0.002	84	239953	5.00	4.85	
232 1-Methyl-2-pyrrilidinone	99		6.421					ND	
49 Benzyl alcohol	108	6.426	6.429	-0.003	85	167328	5.00	4.61	
50 1,2-Dichlorobenzene	146	6.484	6.486	-0.002	88	230369	5.00	4.99	
51 2-Methylphenol	108	6.517	6.515	0.002	94	249639	5.00	4.98	
53 2,2'-oxybis[1-chloropropan	45	6.546	6.549	-0.003	98	269994	5.00	5.11	
52 Indene	115	6.561	6.563	-0.003	89	881173	10.0	9.70	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
56 N-Nitrosopyrrolidine	100		6.633					ND	
21 3 & 4 Methylphenol	108	6.647	6.645	0.002	95	258512	5.00	4.87	
57 N-Nitrosodi-n-propylamine	70	6.657	6.659	-0.002	99	273139	5.00	4.92	
59 N-Nitrosomorpholine	56		6.661					ND	
58 Acetophenone	105	6.666	6.669	-0.003	91	378698	5.00	4.93	
60 2-Toluidine	106		6.700					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
61 Hexachloroethane	117	6.791	6.794	-0.003	92	115781	5.00	4.93	
62 Nitrobenzene	77	6.820	6.823	-0.003	82	384628	5.00	4.74	
63 N-Nitrosopiperidine	114		6.945					ND	
64 Isophorone	82	7.022	7.025	-0.003	97	684379	5.00	4.99	
66 2-Nitrophenol	139	7.104	7.102	0.002	83	109727	5.00	4.89	
65 2,4-Dimethylphenol	107	7.109	7.111	-0.002	94	297520	5.00	5.00	
67 1,3,5-Trichlorobenzene	180		7.123					ND	
68 o,o',o''-Triethylphosphoro	198		7.162					ND	
71 Benzoic acid	122	7.152	7.174	-0.022	85	214690	10.0	8.79	M
70 Bis(2-chloroethoxy)methane	93	7.186	7.188	-0.002	97	346181	5.00	5.01	
72 alpha,alpha-Dimethyl phene	58		7.277					ND	
73 2,4-Dichlorophenol	162	7.306	7.309	-0.003	93	182049	5.00	5.08	
74 1,2,4-Trichlorobenzene	180	7.392	7.390	0.002	90	193908	5.00	4.91	
75 Naphthalene	128	7.465	7.467	-0.002	96	628032	5.00	4.87	
76 4-Chloroaniline	127	7.484	7.487	-0.003	89	293230	5.00	5.20	
77 2,6-Dichlorophenol	162	7.503	7.501	0.002	88	179712	5.00	5.10	
78 Hexachloropropene	213		7.546					ND	
79 Hexachlorobutadiene	225	7.566	7.568	-0.002	96	131650	5.00	4.95	
80 1,2,3-Trichlorobenzene	180		7.590					ND	
81 Benzothiazole	135		7.676					ND	
82 Quinoline	129		7.739					ND	
83 N-Nitrosodi-n-butylamine	84		7.753					ND	
84 Caprolactam	113	7.763	7.770	-0.007	85	156522	10.0	10.4	
85 p-Phenylene diamine	108		7.777					ND	
86 4-Chloro-3-methylphenol	107	7.878	7.881	-0.003	88	259781	5.00	5.15	
94 Safrole, Total	162		7.955					ND	
87 2-Methylnaphthalene	142	8.051	8.054	-0.003	88	395958	5.00	4.67	
88 1-Methylnaphthalene	142	8.143	8.141	0.002	90	358105	5.00	4.98	
90 1,2,3,5-Tetrachlorobenzene	216		8.191					ND	
89 Hexachlorocyclopentadiene	237	8.196	8.198	-0.002	94	75950	5.00	2.69	
225 Isosafrole Peak 1	162		8.200					ND	
91 1,2,4,5-Tetrachlorobenzene	216	8.200	8.203	-0.003	97	215407	5.00	4.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196	8.282	8.285	-0.003	95	149249	5.00	5.14	
93 2,4,5-Trichlorophenol	196	8.316	8.318	-0.002	89	149671	5.00	4.94	
227 Isosafrole Peak 2	162		8.393					ND	
97 2,4-Toluene diamine	121		8.412					ND	
98 1,1'-Biphenyl	154	8.441	8.443	-0.002	97	504097	5.00	4.76	
99 1,2,3,4 -Tetrachlorobenzen	216		8.446					ND	
96 3,4-Dichloronitrobenzene	109		8.465					ND	
100 2-Chloronaphthalene	162	8.474	8.472	0.002	98	400040	5.00	4.77	
246 1-Chloronaphthalene	162		8.498					ND	
101 Phenyl ether	170		8.523					ND	
102 2-Nitroaniline	65	8.532	8.535	-0.003	73	216753	5.00	5.10	
103 1,4-Naphthoquinone	158		8.604					ND	
104 1,4-Dinitrobenzene	168		8.628					ND	
105 Dimethyl phthalate	163	8.667	8.670	-0.003	94	483404	5.00	5.13	
106 1,3-Dinitrobenzene	168	8.700	8.703	-0.003	81	76805	5.00	5.08	
107 2,6-Dinitrotoluene	165	8.724	8.727	-0.003	77	107907	5.00	4.89	
109 Acenaphthylene	152	8.830	8.833	-0.003	99	628583	5.00	4.86	
110 3-Nitroaniline	138	8.878	8.881	-0.003	84	115655	5.00	5.26	
111 2,4-Dinitrophenol	184	8.965	8.968	-0.003	82	43199	10.0	4.84	
112 Acenaphthene	153	8.979	8.982	-0.003	96	397593	5.00	4.72	
113 4-Nitrophenol	109	8.989	8.992	-0.003	85	202321	10.0	9.69	
114 2,4-Dinitrotoluene	165	9.071	9.073	-0.002	82	152347	5.00	5.28	
115 Pentachlorobenzene	250		9.095					ND	
116 Dibenzofuran	168	9.124	9.126	-0.002	95	571922	5.00	4.99	
117 1-Naphthylamine	143		9.176					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.181					ND	
119 2,3,4,6-Tetrachlorophenol	232	9.220	9.223	-0.002	76	130967	5.00	5.37	
120 2-Naphthylamine	143		9.244					ND	
121 Diethyl phthalate	149	9.258	9.261	-0.003	96	483905	5.00	5.09	
247 Hexadecane	57		9.266				ND	ND	
122 Thionazin	97		9.330					ND	
123 4-Chlorophenyl phenyl ethe	204	9.388	9.391	-0.003	95	238767	5.00	4.89	
124 N-Nitro-o-toluidine	152		9.398					ND	
125 4-Nitroaniline	138	9.398	9.400	-0.002	76	100402	5.00	4.71	
127 Tributyl phosphate	99		9.417					ND	
126 Fluorene	166	9.417	9.420	-0.003	99	478943	5.00	4.98	
128 4,6-Dinitro-2-methylphenol	198	9.427	9.429	-0.002	93	72822	10.0	4.42	
130 Diphenylamine	169		9.484					ND	
131 N-Nitrosodiphenylamine	169	9.484	9.487	-0.003	99	740746	10.0	10.4	
297 Benzophenone	105		9.512					ND	
132 1,2-Diphenylhydrazine	77	9.528	9.530	-0.002	98	767874	5.00	5.20	
133 Azobenzene	77	9.528	9.530	-0.002	96	767053	5.00	5.19	
134 Sulfotepp	202		9.585					ND	
135 1,3,5-Trinitrobenzene	213		9.662					ND	
137 Phenacetin	108		9.715					ND	
228 Diallate Peak 1	86		9.720					ND	
138 Phorate	121		9.729					ND	
230 Diallate Peak 2	86		9.802					ND	
139 4-Bromophenyl phenyl ether	248	9.811	9.809	0.002	73	140931	5.00	5.21	
140 Dimethoate	87		9.869					ND	
141 Hexachlorobenzene	284	9.903	9.901	0.002	87	128065	5.00	4.80	
142 Atrazine	200	9.907	9.910	-0.003	89	280750	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.028					ND	
244 n-Octadecane	57		10.045				ND	ND	
144 Pronamide	173		10.052					ND	
143 Pentachlorophenol	266	10.052	10.054	-0.002	89	160059	10.0	8.76	
145 Pentachloronitrobenzene	237		10.066					ND	
146 Disulfoton	88		10.167					ND	
147 Dinoseb	211		10.181					ND	
148 Phenanthrene	178	10.239	10.242	-0.003	97	676318	5.00	4.87	
149 Anthracene	178	10.283	10.285	-0.002	98	685751	5.00	4.94	
151 Carbazole	167	10.398	10.401	-0.003	97	612716	5.00	4.94	
152 Methyl parathion	109		10.494					ND	
154 Di-n-butyl phthalate	149	10.638	10.641	-0.003	99	780296	5.00	5.03	
153 Diphenylsulfone	125		10.672					ND	
155 Ethyl Parathion	97		10.816					ND	
156 4-Nitroquinoline-1-oxide	190		10.874					ND	
157 Methapyrilene	58		10.917					ND	
158 Isodrin	66		11.138					ND	
159 Fluoranthene	202	11.259	11.261	-0.002	99	789293	5.00	4.93	
160 Benzidine	184	11.326	11.329	-0.003	99	652742	10.0	7.36	
161 Pyrene	202	11.461	11.463	-0.002	96	821726	5.00	4.90	
226 Aramite Peak 1	185		11.489					ND	
229 Aramite Peak 2	185		11.547					ND	
163 p-Dimethylamino azobenzene	225		11.658					ND	
164 Chlorobenzilate	139		11.682					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.889					ND	
168 Butyl benzyl phthalate	149	11.922	11.925	-0.003	92	380488	5.00	4.89	
169 3,3'-Dimethylbenzidine	212		11.937					ND	
171 2-Acetylaminofluorene	181		12.163					ND	
172 3,3'-Dimethoxybenzidine	244		12.379					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.398	12.406	-0.008	96	519057	5.00	5.02	
174 4,4'-Methylene bis(2-chlor	231		12.418					ND	
175 3,3'-Dichlorobenzidine	252	12.427	12.435	-0.008	75	509881	10.0	9.15	
177 Benzo[a]anthracene	228	12.495	12.497	-0.002	98	833532	5.00	4.85	
178 Chrysene	228	12.533	12.536	-0.003	96	766868	5.00	4.88	
176 Hexabromobenzene	232		12.543					ND	
179 6-Methylchrysene	242		12.995					ND	
180 Di-n-octyl phthalate	149	13.048	13.055	-0.007	100	907397	5.00	5.02	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.677					ND	
182 Benzo[b]fluoranthene	252	13.706	13.709	-0.003	96	730539	5.00	4.72	
183 Benzo[k]fluoranthene	252	13.740	13.748	-0.008	98	778777	5.00	5.00	
184 Benzo[a]pyrene	252	14.168	14.176	-0.008	76	730209	5.00	4.94	
185 3-Methylcholanthrene	268		14.692					ND	
187 Dibenz[a,h]acridine	279		15.649					ND	
186 Dibenz[a,j]acridine	279		15.746					ND	
188 Indeno[1,2,3-cd]pyrene	276	16.144	16.152	-0.008	98	742818	5.00	4.96	
189 Dibenz(a,h)anthracene	278	16.149	16.162	-0.013	89	608838	5.00	4.93	
190 Benzo[g,h,i]perylene	276	16.722	16.739	-0.017	98	593952	5.00	4.79	
272 2,3-Dinitrotoluene	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
275 Dieldrin	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
270 Toxaphene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
268 Endrin	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.491					ND	
165 4,4'-DDD	235		11.775					ND	
170 4,4'-DDT	235		12.039					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100				0				9.86
S 245 Total Cresols	100				0				9.86
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	5.094	5.003	0.094	0	1139			0
T 194 Decane TIC	142	6.171	5.800	0.371	95	291016			0
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121	7.263	7.249	0.013	0	143			0

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121	7.388	7.363	0.024	0	1615		0	
T 236 3-isopropylphenol TIC	121	7.388	7.363	0.024	0	1615		0	
T 237 3-(1,1-Dimethylethyl Pheno	135	7.710	7.719	-0.010	1	55		0	
T 231 2,3,7,8-TCDD	322		8.240					ND	
T 195 Hydroquinone TIC	110	8.989	8.999	-0.011	43	17465		0	
T 192 Octadecane (TIC)	254	10.042	9.600	0.442	87	372209		0	
T 196 Kepone TIC	272	10.052	11.999	-1.948	1	5149		0.0337	
T 242 Triphenyl Phosphate TIC	326	11.994	11.999	-0.006	0	346		0	
T 280 2,3,7,8-TCDD TIC	198	12.495	12.499	-0.005	0	13911		0	
T 241 Tricresyl phosphate TIC	368	12.504	12.499	0.004	0	277		0	
T 248 2,3,7,8 TCDF TIC	304	13.048	12.999	0.048	0	60		0	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201	14.005	13.999	0.005	0	473		0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L5 W_00005 Amount Added: 1.00 Units: mL

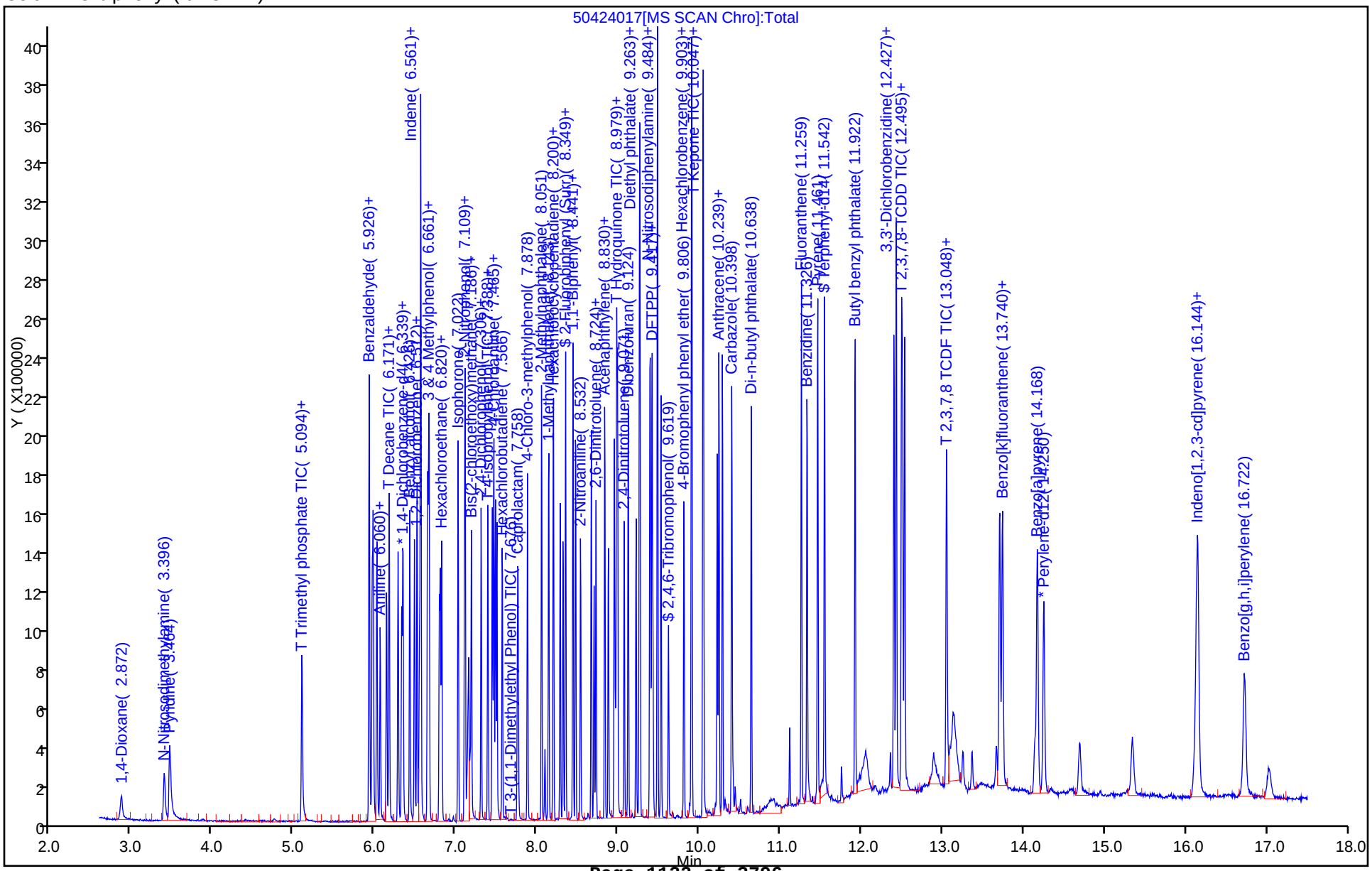
Report Date: 27-Apr-2015 09:33:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424017.D

Injection Date:	24-Apr-2015 14:23:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	mrl qccl			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

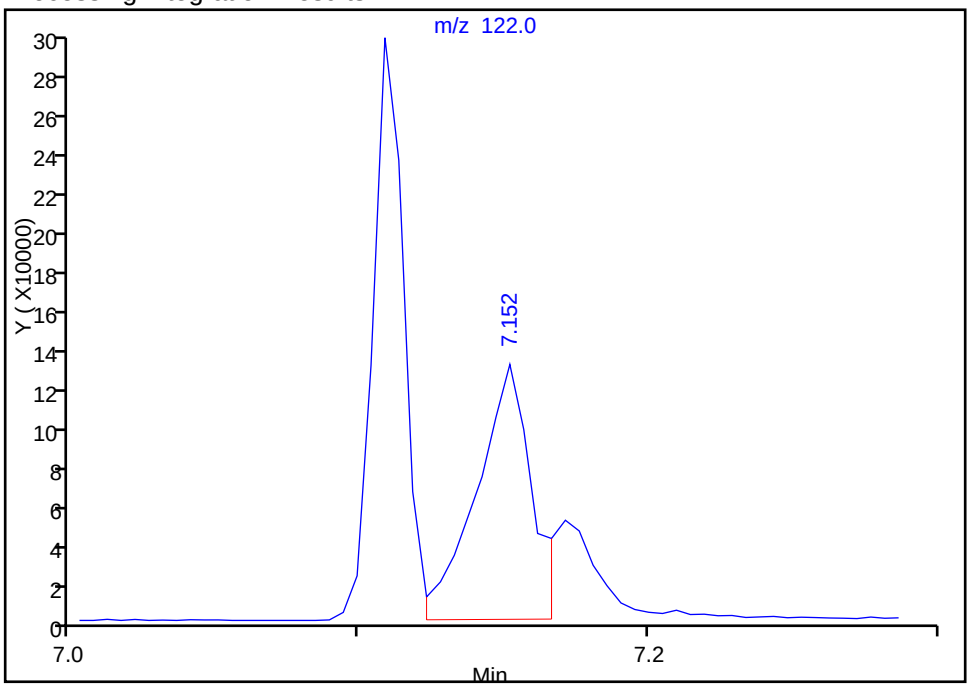
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150424-42899.b\50424017.D				
Injection Date:	24-Apr-2015 14:23:30	Instrument ID:	A4HP9		
Lims ID:	mrl qccl				
Client ID:					
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 Benzoic acid, CAS: 65-85-0

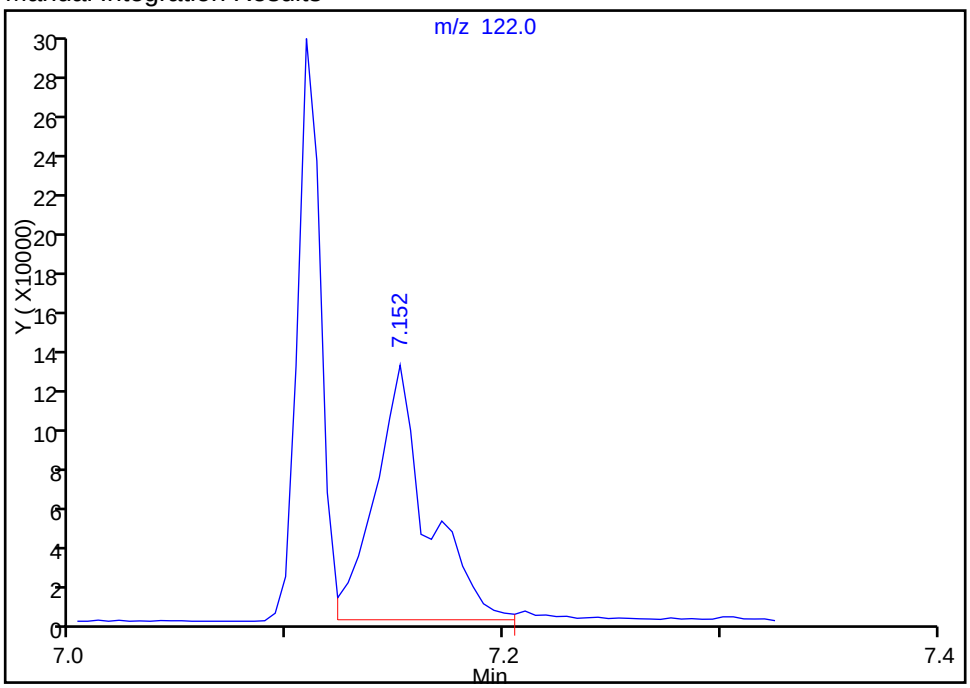
Processing Integration Results

RT: 7.15
Area: 170591
Amount: 7.284857
Amount Units: ng/ul



Manual Integration Results

RT: 7.15
Area: 214690
Amount: 8.794549
Amount Units: ng/ul



Reviewer: ulmanm, 24-Apr-2015 15:06:31
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A4HP9 Start Date: 04/20/2015 08:28

Analysis Batch Number: 177011 End Date: 04/20/2015 20:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-177011/1		04/20/2015 08:28	1	50420001.D	RXI-5SILMS 0.45(mm)
STD5 240-177011/2 IC		04/20/2015 08:49	1	50420002.D	RXI-5SILMS 0.45(mm)
STD4 240-177011/3 IC		04/20/2015 09:14	1	50420003.D	RXI-5SILMS 0.45(mm)
STD3 240-177011/4 IC		04/20/2015 09:40	1	50420004.D	RXI-5SILMS 0.45(mm)
STD2 240-177011/5 IC		04/20/2015 10:05	1	50420005.D	RXI-5SILMS 0.45(mm)
STD1 240-177011/6 IC		04/20/2015 10:31	1	50420006.D	RXI-5SILMS 0.45(mm)
STD9 240-177011/7 IC		04/20/2015 10:56	1	50420007.D	RXI-5SILMS 0.45(mm)
STD8 240-177011/8 IC		04/20/2015 11:22	1	50420008.D	RXI-5SILMS 0.45(mm)
STD7 240-177011/9 IC		04/20/2015 11:47	1	50420009.D	RXI-5SILMS 0.45(mm)
STD6 240-177011/10 ICIS		04/20/2015 12:41	1	50420010.D	RXI-5SILMS 0.45(mm)
ICV 240-177011/11		04/20/2015 13:07	1	50420011.D	RXI-5SILMS 0.45(mm)
STD5 240-177011/12 IC		04/20/2015 13:33	1		RXI-5SILMS 0.45(mm)
STD4 240-177011/13 IC		04/20/2015 13:59	1		RXI-5SILMS 0.45(mm)
STD3 240-177011/14 IC		04/20/2015 14:24	1		RXI-5SILMS 0.45(mm)
STD2 240-177011/15 IC		04/20/2015 14:48	1		RXI-5SILMS 0.45(mm)
STD6 240-177011/16 IC		04/20/2015 15:13	1		RXI-5SILMS 0.45(mm)
STD7 240-177011/17 IC		04/20/2015 15:37	1		RXI-5SILMS 0.45(mm)
STD8 240-177011/18 IC		04/20/2015 16:02	1		RXI-5SILMS 0.45(mm)
STD9 240-177011/19 IC		04/20/2015 16:27	1		RXI-5SILMS 0.45(mm)
ICV 240-177011/20		04/20/2015 16:51	1		RXI-5SILMS 0.45(mm)
STD5 240-177011/21 IC		04/20/2015 17:16	1		RXI-5SILMS 0.45(mm)
STD4 240-177011/22 IC		04/20/2015 17:41	1		RXI-5SILMS 0.45(mm)
STD3 240-177011/23 IC		04/20/2015 18:05	1		RXI-5SILMS 0.45(mm)
STD2 240-177011/24 IC		04/20/2015 18:30	1		RXI-5SILMS 0.45(mm)
STD6 240-177011/25 IC		04/20/2015 18:54	1		RXI-5SILMS 0.45(mm)
STD7 240-177011/26 IC		04/20/2015 19:19	1		RXI-5SILMS 0.45(mm)
STD8 240-177011/27 IC		04/20/2015 19:43	1		RXI-5SILMS 0.45(mm)
STD9 240-177011/28 IC		04/20/2015 20:08	1		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A4HP9 Start Date: 04/24/2015 07:43

Analysis Batch Number: 177779 End Date: 04/24/2015 15:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-177779/1		04/24/2015 07:43	1	50424001.D	RXI-5SILMS 0.45(mm)
CCV 240-177779/2		04/24/2015 08:09	1	50424002.D	RXI-5SILMS 0.45(mm)
MRL 240-177779/3		04/24/2015 08:34	1	50424003.D	RXI-5SILMS 0.45(mm)
MB 240-176086/2-A		04/24/2015 09:23	1	50424005.D	RXI-5SILMS 0.45(mm)
LCS 240-176086/3-A		04/24/2015 09:48	1	50424006.D	RXI-5SILMS 0.45(mm)
MB 240-176654/8-A		04/24/2015 10:13	1	50424007.D	RXI-5SILMS 0.45(mm)
LCS 240-176654/9-A		04/24/2015 10:38	1	50424008.D	RXI-5SILMS 0.45(mm)
ZZZZZ		04/24/2015 11:03	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/24/2015 11:28	1		RXI-5SILMS 0.45(mm)
240-49236-3	079SB-0385-0001-SW	04/24/2015 11:53	1	50424011.D	RXI-5SILMS 0.45(mm)
240-49236-1	079SB-0383-0001-IDW	04/24/2015 12:18	1	50424012.D	RXI-5SILMS 0.45(mm)
240-49236-2	079SB-0384-0001-IDW	04/24/2015 12:43	4	50424013.D	RXI-5SILMS 0.45(mm)
ZZZZZ		04/24/2015 13:08	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/24/2015 13:33	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/24/2015 13:58	1		RXI-5SILMS 0.45(mm)
MRL 240-177779/17		04/24/2015 14:23	1	50424017.D	RXI-5SILMS 0.45(mm)
LODV 240-177779/18		04/24/2015 14:52	1	50424018.D	RXI-5SILMS 0.45(mm)
LODV 240-177779/19		04/24/2015 15:17	1	50424019.D	RXI-5SILMS 0.45(mm)
LODV 240-177779/20		04/24/2015 15:42	1	50424020.D	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176086 Batch Start Date: 04/13/15 07:00 Batch Analyst: Coast, Chris

Batch Method: 3520C Batch End Date: 04/14/15 01:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EXBenzaldehyd 00019	EXBNASPIKE 00038
240-49236-I-3	079SB-0385-0001-SW	3520C, 8270C	T	1040 mL	2 mL	7	2		
MB 240-176086/2		3520C, 8270C		1000 mL	2 mL	7	2		
LCS 240-176086/3		3520C, 8270C		1000 mL	2 mL	7	2	1 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURR W 00021					
240-49236-I-3	079SB-0385-0001-SW	3520C, 8270C	T	1 mL					
MB 240-176086/2		3520C, 8270C		1 mL					
LCS 240-176086/3		3520C, 8270C		1 mL					

Batch Notes	
Acid used for pH adjust Lot #	1889346
Na2SO4 Lot Number	1942692
pH Paper Lot Number	1385030
Prep Solvent Lot #	1943045

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176620 Batch Start Date: 04/15/15 17:00 Batch Analyst: Jones, Diane

Batch Method: 1311 Batch End Date: 04/16/15 09:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXpH(0-14) 00006	EXTCLPBUFF1 00469	EXTCLPFILTERS 00023	EXTCLPHCLW 00044	AnalysisComment	
240-49236-B-1	079SB-0383-0001-IDW	1311, 3520C, 8270C	P	1 mL	1 mL	1	1 mL	MS for Herb	
240-49236-F-2	079SB-0384-0001-IDW	1311, 3520C, 8270C	P	1 mL	1 mL	1	1 mL	Filter only H2O	

Batch Notes	
Tumbler Rotations per Minute	A, E = 31rpm

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176654 Batch Start Date: 04/16/15 13:30 Batch Analyst: Coast, Chris

Batch Method: 3520C Batch End Date: 04/18/15 07:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	EXBNASURR W 00021
240-49236-B-1-C	079SB-0383-0001-IDW	3520C, 8270C	P	250 mL	2 mL	5	2	12	1 mL
240-49236-F-2-A	079SB-0384-0001-IDW	3520C, 8270C	P	250 mL	2 mL	7	2	12	1 mL
MB 240-176654/8		3520C, 8270C		250 mL	2 mL	5	2	12	1 mL
LCS 240-176654/9		3520C, 8270C		250 mL	2 mL	5	2	12	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXTCLPBNA W 00037
240-49236-B-1-C	079SB-0383-0001-IDW	3520C, 8270C	P	
240-49236-F-2-A	079SB-0384-0001-IDW	3520C, 8270C	P	
MB 240-176654/8		3520C, 8270C		
LCS 240-176654/9		3520C, 8270C		1 mL

Batch Notes	
Acid used for pH adjust Lot #	1889345
Base used for pH adjust Lot #	1889396
Na2SO4 Lot Number	1942693
pH Paper Lot Number	1385030
Prep Solvent Lot #	1952537

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8081 DOD

Organochlorine Pesticides (GC) by Method 8081/DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCB1	#	DCB2	#
079SB-0383-0001-ID W	240-49236-1	92	Q	90	Q	93	Q	92	Q
	MB 240-176661/5-A	80		83		82		78	
	LCS 240-176661/6-A	87		89		101		102	

	QC LIMITS
TCX = Tetrachloro-m-xylene	44-127
DCB = DCB Decachlorobiphenyl	44-144

Column to be used to flag recovery values

FORM II 8081A

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079SB-0385-0001-SW RE	240-49236-3 RE	73	78	28 Q	35
	MB 240-176509/2-A	84	84	96	99
	LCS 240-176509/3-A	88	91	93	92

	QC LIMITS
TCX = Tetrachloro-m-xylene	25-140
DCB = DCB Decachlorobiphenyl	30-135

Column to be used to flag recovery values

FORM II 8081A

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-176694/16	109	107	120	125
	MRL 240-176694/31	112	112	123	126
	MRL 240-177258/31	120	116	123	123
	MRL 240-177258/49	118	117	117	116
	MRL 240-178086/12	113	109	101	101
	MRL 240-178086/19	115	112	115	119

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8081A

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water (TCLP) Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCB1	#	DCB2	#
079SB-0384-0001-ID W RE	240-49236-2 RE	25	Q	35	Q	4	Q	4	Q
	MB 240-177491/3-A	78		79		98		98	
	LCS 240-177491/4-A	71		72		105		108	
079SB-0384-0001-ID W MS	240-49236-2 MS	26	Q	34	Q	2	Q	2	Q

	QC LIMITS
TCX = Tetrachloro-m-xylene	44-127
DCB = DCB Decachlorobiphenyl	44-144

Column to be used to flag recovery values

FORM II 8081A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3041618.D

Lab ID: LCS 240-176509/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	0.500	0.579	116	25-150	
4,4'-DDE	0.500	0.518	104	35-140	
4,4'-DDT	0.500	0.561	112	45-140	
Aldrin	0.500	0.452	90	25-140	
alpha-BHC	0.500	0.496	99	60-130	
alpha-Chlordane	0.500	0.482	96	65-125	
beta-BHC	0.500	0.476	95	65-125	
delta-BHC	0.500	0.511	102	45-135	
Dieldrin	0.500	0.506	101	60-130	
Endosulfan I	0.500	0.358	72	50-110	
Endosulfan II	0.500	0.399	80	30-130	
Endosulfan sulfate	0.500	0.487	97	55-135	
Endrin	0.500	0.530	106	55-135	
Endrin aldehyde	0.500	0.479	96	55-135	
Endrin ketone	0.500	0.458	92	75-125	
gamma-BHC (Lindane)	0.500	0.498	100	25-135	
gamma-Chlordane	0.500	0.491	98	60-125	
Heptachlor	0.500	0.509	102	40-130	
Heptachlor epoxide	0.500	0.485	97	60-130	
Methoxychlor	0.500	0.534	107	55-150	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3042146.D

Lab ID: LCS 240-176661/6-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Endrin	0.00200	0.00208 J	104	56-144	D
gamma-BHC (Lindane)	0.00200	0.00186 J	93	60-139	D
Heptachlor	0.00200	0.00191 J	96	65-123	D
Heptachlor epoxide	0.00200	0.00195 J	98	62-141	D
Methoxychlor	0.00400	0.00347 J	87	52-138	D

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3042716.D

Lab ID: LCS 240-177491/4-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Endrin	0.00200	0.00209 J	104	56-144	D
gamma-BHC (Lindane)	0.00200	0.00167 J	84	60-139	D
Heptachlor	0.00200	0.00181 J	91	65-123	D
Heptachlor epoxide	0.00200	0.00191 J	96	62-141	D
Methoxychlor	0.00400	0.00403 J	101	52-138	D

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3041616.D

Lab ID: MRL 240-176694/16 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	5.00	5.13	103	70-130	
4,4'-DDD	5.00	5.09	102	70-130	
4,4'-DDE	5.00	4.76	95	70-130	
4,4'-DDE	5.00	5.08	102	70-130	
4,4'-DDT	5.00	4.74	95	70-130	
4,4'-DDT	5.00	4.80	96	70-130	
Aldrin	5.00	5.06	101	70-130	
Aldrin	5.00	5.14	103	70-130	
alpha-BHC	5.00	4.81	96	70-130	
alpha-BHC	5.00	4.86	97	70-130	
alpha-Chlordane	5.00	5.25	105	70-130	
alpha-Chlordane	5.00	5.37	107	70-130	
beta-BHC	5.00	5.62	112	70-130	
beta-BHC	5.00	5.74	115	70-130	
delta-BHC	5.00	4.71	94	70-130	
delta-BHC	5.00	4.80	96	70-130	
Dieldrin	5.00	5.19	104	70-130	
Dieldrin	5.00	5.30	106	70-130	
Endosulfan I	5.00	5.38	108	70-130	
Endosulfan I	5.00	5.52	110	70-130	
Endosulfan II	5.00	5.84	117	70-130	
Endosulfan II	5.00	5.86	117	70-130	
Endosulfan sulfate	5.00	5.75	115	70-130	
Endosulfan sulfate	5.00	5.68	114	70-130	
Endrin	5.00	5.53	111	70-130	
Endrin	5.00	5.58	112	70-130	
Endrin aldehyde	5.00	5.72	114	70-130	
Endrin aldehyde	5.00	5.74	115	70-130	
Endrin ketone	5.00	5.65	113	70-130	
Endrin ketone	5.00	5.57	111	70-130	
gamma-BHC (Lindane)	5.00	4.98	100	70-130	
gamma-BHC (Lindane)	5.00	5.02	100	70-130	
gamma-Chlordane	5.00	5.14	103	70-130	
gamma-Chlordane	5.00	5.34	107	70-130	
Heptachlor	5.00	5.41	108	70-130	
Heptachlor	5.00	5.51	110	70-130	
Heptachlor epoxide	5.00	5.41	108	70-130	
Heptachlor epoxide	5.00	5.51	110	70-130	
Methoxychlor	5.00	6.05	121	70-130	
Methoxychlor	5.00	5.80	116	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3041631.D

Lab ID: MRL 240-176694/31 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	5.00	6.17	123	70-130	
4,4'-DDD	5.00	5.65	113	70-130	
4,4'-DDE	5.00	5.51	110	70-130	
4,4'-DDE	5.00	5.34	107	70-130	
4,4'-DDT	5.00	4.83	97	70-130	
4,4'-DDT	5.00	4.70	94	70-130	
Aldrin	5.00	5.30	106	70-130	
Aldrin	5.00	5.32	106	70-130	
alpha-BHC	5.00	5.15	103	70-130	
alpha-BHC	5.00	5.11	102	70-130	
alpha-Chlordane	5.00	5.51	110	70-130	
alpha-Chlordane	5.00	5.53	111	70-130	
beta-BHC	5.00	6.09	122	70-130	
beta-BHC	5.00	5.96	119	70-130	
delta-BHC	5.00	5.27	105	70-130	
delta-BHC	5.00	5.15	103	70-130	
Dieldrin	5.00	5.46	109	70-130	
Dieldrin	5.00	5.37	107	70-130	
Endosulfan I	5.00	5.72	114	70-130	
Endosulfan I	5.00	5.72	114	70-130	
Endosulfan II	5.00	5.88	118	70-130	
Endosulfan II	5.00	5.73	115	70-130	
Endosulfan sulfate	5.00	6.01	120	70-130	
Endosulfan sulfate	5.00	5.74	115	70-130	
Endrin	5.00	5.81	116	70-130	
Endrin	5.00	5.65	113	70-130	
Endrin aldehyde	5.00	6.02	120	70-130	
Endrin aldehyde	5.00	5.80	116	70-130	
Endrin ketone	5.00	5.79	116	70-130	
Endrin ketone	5.00	5.56	111	70-130	
gamma-BHC (Lindane)	5.00	5.33	107	70-130	
gamma-BHC (Lindane)	5.00	5.27	105	70-130	
gamma-Chlordane	5.00	5.43	109	70-130	
gamma-Chlordane	5.00	5.52	110	70-130	
Heptachlor	5.00	5.76	115	70-130	
Heptachlor	5.00	5.81	116	70-130	
Heptachlor epoxide	5.00	5.71	114	70-130	
Heptachlor epoxide	5.00	5.72	114	70-130	
Methoxychlor	5.00	6.22	124	70-130	
Methoxychlor	5.00	5.73	115	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3042131.D

Lab ID: MRL 240-177258/31 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
Endrin	5.00	5.75	115	70-130	
Endrin	5.00	5.81	116	70-130	
gamma-BHC (Lindane)	5.00	5.48	110	70-130	
gamma-BHC (Lindane)	5.00	5.54	111	70-130	
Heptachlor	5.00	5.88	118	70-130	
Heptachlor	5.00	6.12	122	70-130	
Heptachlor epoxide	5.00	5.86	117	70-130	
Heptachlor epoxide	5.00	6.00	120	70-130	
Methoxychlor	5.00	5.97	119	70-130	
Methoxychlor	5.00	6.05	121	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3042149.D

Lab ID: MRL 240-177258/49 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
Endrin	5.00	5.61	112	70-130	
Endrin	5.00	5.42	108	70-130	
gamma-BHC (Lindane)	5.00	5.36	107	70-130	
gamma-BHC (Lindane)	5.00	5.46	109	70-130	
Heptachlor	5.00	5.73	115	70-130	
Heptachlor	5.00	5.96	119	70-130	
Heptachlor epoxide	5.00	5.76	115	70-130	
Heptachlor epoxide	5.00	5.86	117	70-130	
Methoxychlor	5.00	4.23	85	70-130	
Methoxychlor	5.00	3.94	79	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3042712.D

Lab ID: MRL 240-178086/12 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
Endrin	5.00	4.63	93	70-130	
Endrin	5.00	4.62	92	70-130	
gamma-BHC (Lindane)	5.00	5.09	102	70-130	
gamma-BHC (Lindane)	5.00	5.14	103	70-130	
Heptachlor	5.00	5.21	104	70-130	
Heptachlor	5.00	5.42	108	70-130	
Heptachlor epoxide	5.00	5.45	109	70-130	
Heptachlor epoxide	5.00	5.54	111	70-130	
Methoxychlor	5.00	5.00	100	70-130	
Methoxychlor	5.00	5.12	102	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P3042719.D

Lab ID: MRL 240-178086/19 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
Endrin	5.00	5.60	112	70-130	
Endrin	5.00	5.47	109	70-130	
gamma-BHC (Lindane)	5.00	4.98	100	70-130	
gamma-BHC (Lindane)	5.00	4.91	98	70-130	
Heptachlor	5.00	5.61	112	70-130	
Heptachlor	5.00	5.65	113	70-130	
Heptachlor epoxide	5.00	5.64	113	70-130	
Heptachlor epoxide	5.00	5.60	112	70-130	
Methoxychlor	5.00	6.15	123	70-130	
Methoxychlor	5.00	5.77	115	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water (TCLP) Level: Low Lab File ID: P3042714.D

Lab ID: 240-49236-2 MS Client ID: 079SB-0384-0001-IDW MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Endrin	0.00250	0.00015 U	0.000411 J	16	50-150	D Q J
gamma-BHC (Lindane)	0.00250	0.00015 U	0.00157 J	63	50-150	D Q
Heptachlor	0.00250	0.00015 U	0.000356 J	14	50-150	D Q J
Heptachlor epoxide	0.00250	0.00015 U	0.000591 J	24	50-150	D Q J
Methoxychlor	0.00500	0.00015 U	0.00106 J	21	50-150	D Q J

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: MB 240-176509/2-A

Matrix: Water Date Extracted: 04/15/2015 09:05

Lab File ID:(1) P3041617.D Lab File ID:(2) P3041617.D

Date Analyzed:(1) 04/16/2015 19:56 Date Analyzed:(2) 04/16/2015 19:56

Instrument ID:(1) A2HP3 Instrument ID:(2) A2HP3

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 240-176509/3-A	04/16/2015 20:19	04/16/2015 20:19
079SB-0385-0001-SW RE	240-49236-3 RE	04/16/2015 20:43	04/16/2015 20:43

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: MB 240-176661/5-A

Matrix: Water Date Extracted: 04/16/2015 08:22

Lab File ID:(1) P3042145.D Lab File ID:(2) P3042145.D

Date Analyzed:(1) 04/22/2015 05:39 Date Analyzed:(2) 04/22/2015 05:39

Instrument ID:(1) A2HP3 Instrument ID:(2) A2HP3

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SB-0383-0001-IDW	240-49236-1	04/22/2015 04:55	04/22/2015 04:55
	LCS 240-176661/6-A	04/22/2015 06:03	04/22/2015 06:03

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: MB 240-177491/3-A

Matrix: Water Date Extracted: 04/22/2015 15:15

Lab File ID:(1) P3042715.D Lab File ID:(2) P3042715.D

Date Analyzed:(1) 04/27/2015 16:16 Date Analyzed:(2) 04/27/2015 16:16

Instrument ID:(1) A2HP3 Instrument ID:(2) A2HP3

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SB-0384-0001-IDW RE	240-49236-2 RE	04/27/2015 15:27	04/27/2015 15:27
079SB-0384-0001-IDW MS	240-49236-2 MS	04/27/2015 15:52	04/27/2015 15:52
	LCS 240-177491/4-A	04/27/2015 16:39	04/27/2015 16:39

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD 240-174448/27 Date Analyzed: 03/31/2015 21:20

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3033127.D Heated Purge: (Y/N) N

Calibration ID: 27642

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				3.60	13.01	
UPPER LIMIT				3.63	13.04	
LOWER LIMIT				3.57	12.98	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-174448/27 ICRT		03/31/2015 21:20	P3033127.D	3.60	13.01	

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD 240-174448/27 Date Analyzed: 03/31/2015 21:20

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3033127.D Heated Purge: (Y/N) N

Calibration ID: 27643

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				4.29	14.57	
UPPER LIMIT				4.32	14.60	
LOWER LIMIT				4.26	14.54	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-174448/27 ICRT		03/31/2015 21:20	P3033127.D	4.29	14.57	

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-176694/14 Date Analyzed: 04/16/2015 18:47

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3041614.D Heated Purge: (Y/N) N

Calibration ID: 27642

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.56	12.94	
UPPER LIMIT				3.59	12.97	
LOWER LIMIT				3.53	12.91	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-176694/14 CCVRT		04/16/2015 18:47	P3041614.D	3.56	12.94	
MB 240-176509/2-A		04/16/2015 19:56	P3041617.D	3.56	12.94	
LCS 240-176509/3-A		04/16/2015 20:19	P3041618.D	3.56	12.94	
240-49236-3 RE	079SB-0385-0001-SW RE	04/16/2015 20:43	P3041619.D	3.56	12.94	
CCV 240-176694/26		04/16/2015 23:24	P3041626.D	3.56	12.94	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-176694/14 Date Analyzed: 04/16/2015 18:47

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3041614.D Heated Purge: (Y/N) N

Calibration ID: 27643

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.24	14.50	
UPPER LIMIT				4.27	14.53	
LOWER LIMIT				4.21	14.47	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-176694/14 CCVRT		04/16/2015 18:47	P3041614.D	4.24	14.50	
MB 240-176509/2-A		04/16/2015 19:56	P3041617.D	4.24	14.50	
LCS 240-176509/3-A		04/16/2015 20:19	P3041618.D	4.24	14.49	
240-49236-3 RE	079SB-0385-0001-SW RE	04/16/2015 20:43	P3041619.D	4.24	14.50	
CCV 240-176694/26		04/16/2015 23:24	P3041626.D	4.24	14.50	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-177258/10 Date Analyzed: 04/21/2015 16:19

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3042110.D Heated Purge: (Y/N) N

Calibration ID: 27642

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.56	12.94	
UPPER LIMIT				3.59	12.97	
LOWER LIMIT				3.53	12.91	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177258/10 CCVRT		04/21/2015 16:19	P3042110.D	3.56	12.94	
PEM 240-177258/27		04/21/2015 22:49	P3042127.D	3.55		
CCV 240-177258/40		04/22/2015 03:48	P3042140.D	3.55	12.94	
240-49236-1	079SB-0383-0001-IDW	04/22/2015 04:55	P3042143.D	3.55	12.94	
MB 240-176661/5-A		04/22/2015 05:39	P3042145.D	3.55	12.94	
LCS 240-176661/6-A		04/22/2015 06:03	P3042146.D	3.56	12.94	
CCV 240-177258/54		04/22/2015 09:08	P3042154.D	3.56	12.94	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-177258/10 Date Analyzed: 04/21/2015 16:19

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3042110.D Heated Purge: (Y/N) N

Calibration ID: 27643

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.23	14.49	
UPPER LIMIT				4.26	14.52	
LOWER LIMIT				4.20	14.46	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177258/10 CCVRT		04/21/2015 16:19	P3042110.D	4.23	14.49	
PEM 240-177258/27		04/21/2015 22:49	P3042127.D	4.24		
CCV 240-177258/40		04/22/2015 03:48	P3042140.D	4.24	14.49	
240-49236-1	079SB-0383-0001-IDW	04/22/2015 04:55	P3042143.D	4.24	14.49	
MB 240-176661/5-A		04/22/2015 05:39	P3042145.D	4.24	14.49	
LCS 240-176661/6-A		04/22/2015 06:03	P3042146.D	4.24	14.49	
CCV 240-177258/54		04/22/2015 09:08	P3042154.D	4.23	14.49	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-178086/8 Date Analyzed: 04/27/2015 13:27

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3042708.D Heated Purge: (Y/N) N

Calibration ID: 27642

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.55	12.93	
UPPER LIMIT				3.58	12.96	
LOWER LIMIT				3.52	12.90	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-178086/8 CCVRT		04/27/2015 13:27	P3042708.D	3.55	12.93	
240-49236-2 RE	079SB-0384-0001-IDW RE	04/27/2015 15:27	P3042713.D	3.55	12.93	
240-49236-2 MS	079SB-0384-0001-IDW MS	04/27/2015 15:52	P3042714.D	3.55	12.93	
MB 240-177491/3-A		04/27/2015 16:16	P3042715.D	3.55	12.93	
LCS 240-177491/4-A		04/27/2015 16:39	P3042716.D	3.55	12.93	
CCV 240-178086/22		04/27/2015 19:02	P3042722.D	3.55	12.93	
PEM 240-178086/33		04/27/2015 23:18	P3042733.D	3.55		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-178086/8 Date Analyzed: 04/27/2015 13:27

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3042708.D Heated Purge: (Y/N) N

Calibration ID: 27643

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.23	14.48	
UPPER LIMIT				4.26	14.51	
LOWER LIMIT				4.20	14.45	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-178086/8 CCVRT		04/27/2015 13:27	P3042708.D	4.23	14.48	
240-49236-2 RE	079SB-0384-0001-IDW RE	04/27/2015 15:27	P3042713.D	4.23	14.48	
240-49236-2 MS	079SB-0384-0001-IDW MS	04/27/2015 15:52	P3042714.D	4.23	14.48	
MB 240-177491/3-A		04/27/2015 16:16	P3042715.D	4.23	14.48	
LCS 240-177491/4-A		04/27/2015 16:39	P3042716.D	4.23	14.49	
CCV 240-178086/22		04/27/2015 19:02	P3042722.D	4.23	14.48	
PEM 240-178086/33		04/27/2015 23:18	P3042733.D	4.23		

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW MS Lab Sample ID: 240-49236-2 MS

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/27/2015 15:52 Date Analyzed (2): 04/27/2015 15:52

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		5.75	5.71	5.77	0.00139		12.2
	2		4.64	4.60	4.66	0.00157		
Heptachlor	1		6.65	6.62	6.68	0.000310		13.7
	2		5.28	5.25	5.31	0.000356		
Heptachlor epoxide	1		8.88	8.85	8.91	0.000560		5.4
	2		7.02	6.98	7.04	0.000591		
Endrin	1		10.67	10.64	10.70	0.000490		17.5
	2		8.95	8.93	8.99	0.000411		
Methoxychlor	1		12.55	12.52	12.58	0.000476		76.1
	2		10.78	10.76	10.82	0.00106		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176509/3-A

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/16/2015 20:19 Date Analyzed (2): 04/16/2015 20:19

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		5.13	5.10	5.16	0.490		1.3
	2		4.25	4.23	4.29	0.496		
gamma-BHC (Lindane)	1		5.76	5.73	5.79	0.490		1.6
	2		4.64	4.62	4.68	0.498		
beta-BHC	1		5.96	5.93	5.99	0.450		5.6
	2		4.78	4.75	4.81	0.476		
delta-BHC	1		6.58	6.55	6.61	0.479		6.4
	2		5.00	4.98	5.04	0.511		
Heptachlor	1		6.66	6.63	6.69	0.490		3.9
	2		5.29	5.26	5.32	0.509		
Aldrin	1		7.47	7.44	7.50	0.473		4.3
	2		5.75	5.73	5.79	0.452		
Heptachlor epoxide	1		8.90	8.87	8.93	0.481		1.0
	2		7.03	7.01	7.07	0.485		
gamma-Chlordane	1		9.29	9.26	9.32	0.474		3.5
	2		7.35	7.32	7.38	0.491		
alpha-Chlordane	1		9.59	9.56	9.62	0.473		2.0
	2		7.69	7.67	7.73	0.482		
Endosulfan I	1		9.66	9.63	9.69	0.354		1.4
	2		7.97	7.94	8.00	0.358		
4,4'-DDE	1		10.02	9.99	10.05	0.494		4.7
	2		8.06	8.04	8.10	0.518		
Dieldrin	1		10.17	10.14	10.20	0.498		1.7
	2		8.52	8.49	8.55	0.506		
Endrin	1		10.69	10.66	10.72	0.513		3.2
	2		8.97	8.94	9.00	0.530		
4,4'-DDD	1		11.01	10.98	11.04	0.532		8.4
	2		9.32	9.30	9.36	0.579		
Endosulfan II	1		11.05	11.03	11.09	0.400		0.3
	2		9.42	9.39	9.45	0.399		
4,4'-DDT	1		11.49	11.46	11.52	0.524		6.8
	2		9.84	9.82	9.88	0.561		
Endrin aldehyde	1		11.61	11.58	11.64	0.470		1.8
	2		10.21	10.19	10.25	0.479		
Endosulfan sulfate	1		12.03	12.00	12.06	0.481		1.3
	2		10.94	10.91	10.97	0.487		
Methoxychlor	1		12.56	12.53	12.59	0.525		1.7
	2		10.79	10.77	10.83	0.534		
Endrin ketone	1		12.78	12.75	12.81	0.452		1.3
	2		11.34	11.31	11.37	0.458		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176661/6-A

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/22/2015 06:03 Date Analyzed (2): 04/22/2015 06:03

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		5.75	5.72	5.78	0.00153		19.3
	2		4.64	4.61	4.67	0.00186		
Heptachlor	1		6.65	6.62	6.68	0.00182		5.1
	2		5.28	5.25	5.31	0.00191		
Heptachlor epoxide	1		8.89	8.86	8.92	0.00190		2.7
	2		7.02	6.99	7.05	0.00195		
Endrin	1		10.68	10.65	10.71	0.00194		6.8
	2		8.96	8.93	8.99	0.00208		
Methoxychlor	1		12.55	12.52	12.58	0.00306		12.5
	2		10.79	10.76	10.82	0.00347		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-177491/3-A

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/27/2015 16:16 Date Analyzed (2): 04/27/2015 16:16

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methoxychlor	1		12.57	12.52	12.58	0.0000237		113.1
	2		10.77	10.76	10.82	0.0000855		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-177491/4-A

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/27/2015 16:39 Date Analyzed (2): 04/27/2015 16:39

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		5.75	5.71	5.77	0.00138		19.3
	2		4.63	4.60	4.66	0.00167		
Heptachlor	1		6.65	6.62	6.68	0.00168		7.6
	2		5.28	5.25	5.31	0.00181		
Heptachlor epoxide	1		8.88	8.85	8.91	0.00181		5.6
	2		7.01	6.98	7.04	0.00191		
Endrin	1		10.67	10.64	10.70	0.00196		6.5
	2		8.95	8.93	8.99	0.00209		
Methoxychlor	1		12.55	12.52	12.58	0.00360		11.1
	2		10.78	10.76	10.82	0.00403		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW | Lab Sample ID: 240-49236-1

Matrix: Solid (TCLP) | Lab File ID: P3042143.D

Analysis Method: 8081A | Date Collected: 04/10/2015 08:00

Extraction Method: 3520C | Date Extracted: 04/16/2015 08:22

Sample wt/vol: 250(mL) | Date Analyzed: 04/22/2015 04:55

Con. Extract Vol.: 3(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	0.0012	U	0.030	0.0012	0.00014
72-20-8	Endrin	0.00012	U Q	0.010	0.00012	0.000013
58-89-9	gamma-BHC (Lindane)	0.00012	U Q	0.010	0.00012	0.000013
76-44-8	Heptachlor	0.00012	U Q	0.010	0.00012	0.000014
1024-57-3	Heptachlor epoxide	0.00012	U Q	0.010	0.00012	0.000015
72-43-5	Methoxychlor	0.00012	U Q	0.030	0.00012	0.000013
8001-35-2	Toxaphene	0.0048	U	0.50	0.0048	0.00020

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92	Q	44-144
877-09-8	Tetrachloro-m-xylene	90	Q	44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042143.D
Lims ID: 240-49236-B-1-E Lab Sample ID: 240-49236-1
Client ID: 079SB-0383-0001-IDW
Sample Type: Client
Inject. Date: 22-Apr-2015 04:55:18 ALS Bottle#: 43 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-043
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:35:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.554	3.554	0.000	58697676	59.7	
2	4.235	4.235	0.000	68752130	61.0	
					RPD = 2.19	
5 gamma-BHC (Lindane)						
1		4.637			ND	
2		5.751				
8 Chlordane (technical)						
1		5.166			ND	
1		6.055				
1		7.339				
1		7.677				
2		6.325				
2		7.950				
2		9.283				
2		9.581				
9 Heptachlor						
1		5.283			ND	
2		6.653				
12 Heptachlor epoxide						
1		7.021			ND	
2		8.889				
18 Endrin						
1		8.962			ND	
2		10.680				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
24 Toxaphene						
1		9.622			ND	
1		10.081				
1		10.393				
1		10.735				
1		10.840				
2		11.025				
2		11.195				
2		11.618				
2		12.353				
2		12.444				
27 Methoxychlor						
1		10.789			ND	
2		12.553				
$ 30 DCB Decachlorobiphenyl						
1	12.937	12.938	-0.001	57536804	61.4	
2	14.492	14.493	-0.001	63080526	62.0	
					RPD = 0.85	

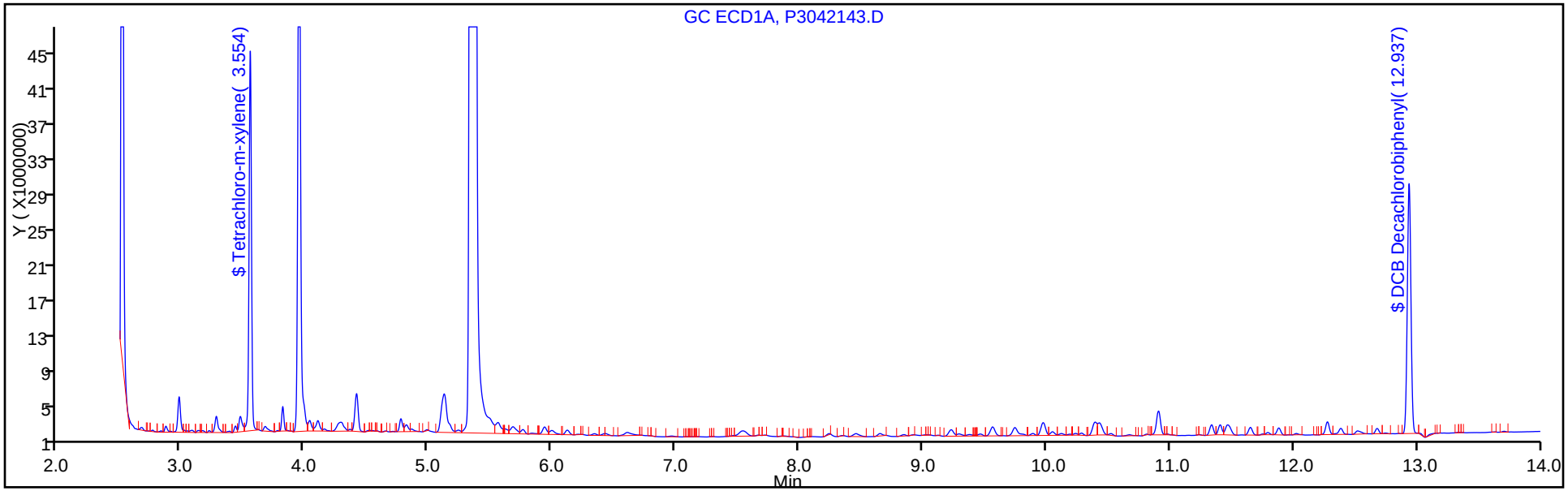
Report Date: 22-Apr-2015 08:58:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

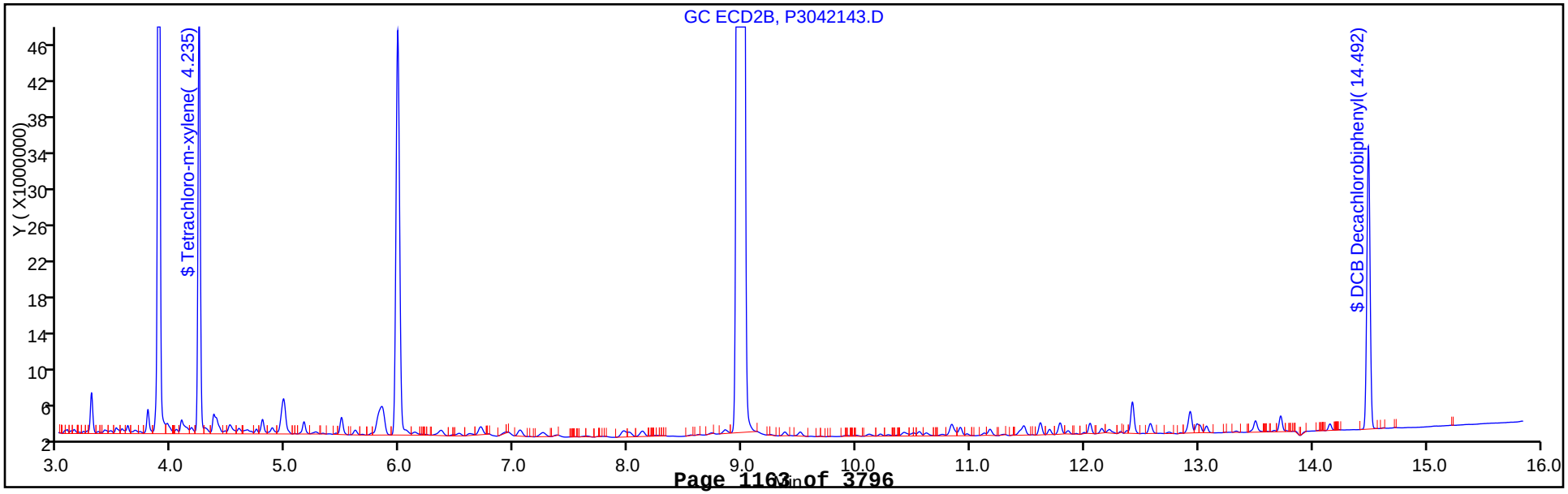
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042143.D

Injection Date:	22-Apr-2015 04:55:18	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-B-1-E	Lab Sample ID:	240-49236-1	Worklist Smp#:	43
Client ID:	079SB-0383-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW Lab Sample ID: 240-49236-1

Matrix: Solid (TCLP) Lab File ID: P3042143.D

Analysis Method: 8081A Date Collected: 04/10/2015 08:00

Extraction Method: 3520C Date Extracted: 04/16/2015 08:22

Sample wt/vol: 250(mL) Date Analyzed: 04/22/2015 04:55

Con. Extract Vol.: 3(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	93	Q	44-144
877-09-8	Tetrachloro-m-xylene	92	Q	44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042143.D
Lims ID: 240-49236-B-1-E Lab Sample ID: 240-49236-1
Client ID: 079SB-0383-0001-IDW
Sample Type: Client
Inject. Date: 22-Apr-2015 04:55:18 ALS Bottle#: 43 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-043
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:35:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.554	3.554	0.000	58697676	59.7	
2	4.235	4.235	0.000	68752130	61.0	
					RPD = 2.19	
5 gamma-BHC (Lindane)						
1		4.637			ND	
2		5.751				
8 Chlordane (technical)						
1		5.166			ND	
1		6.055				
1		7.339				
1		7.677				
2		6.325				
2		7.950				
2		9.283				
2		9.581				
9 Heptachlor						
1		5.283			ND	
2		6.653				
12 Heptachlor epoxide						
1		7.021			ND	
2		8.889				
18 Endrin						
1		8.962			ND	
2		10.680				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
24 Toxaphene						
1		9.622			ND	
1		10.081				
1		10.393				
1		10.735				
1		10.840				
2		11.025				
2		11.195				
2		11.618				
2		12.353				
2		12.444				
27 Methoxychlor						
1		10.789			ND	
2		12.553				
$ 30 DCB Decachlorobiphenyl						
1	12.937	12.938	-0.001	57536804	61.4	
2	14.492	14.493	-0.001	63080526	62.0	
					RPD = 0.85	

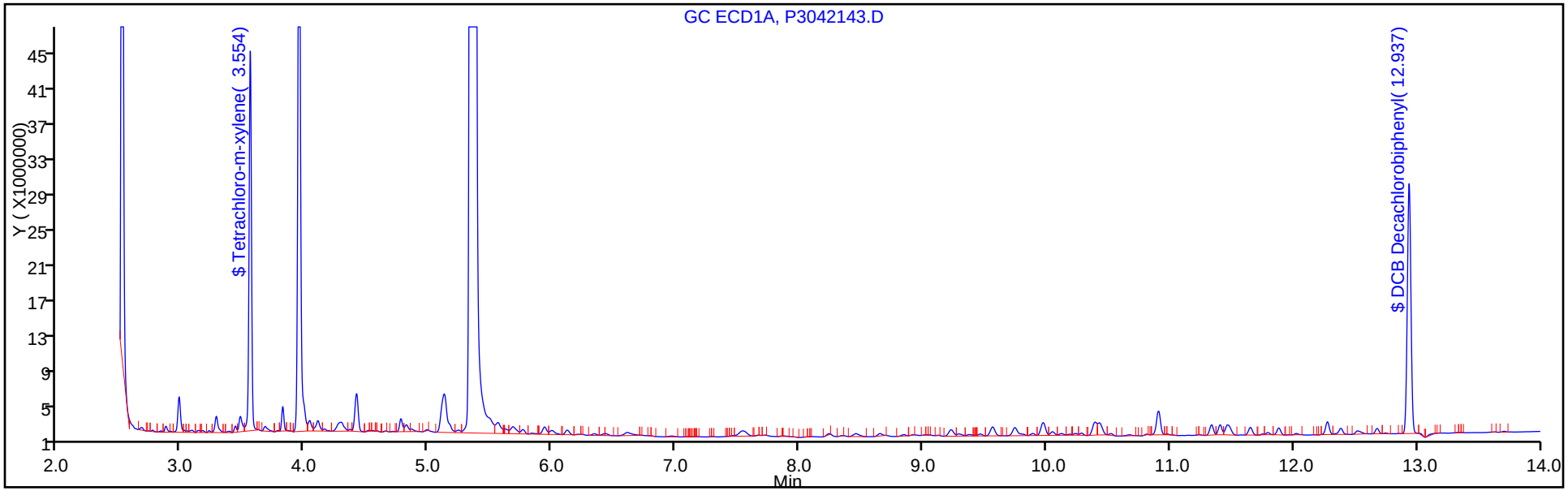
Report Date: 22-Apr-2015 08:58:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

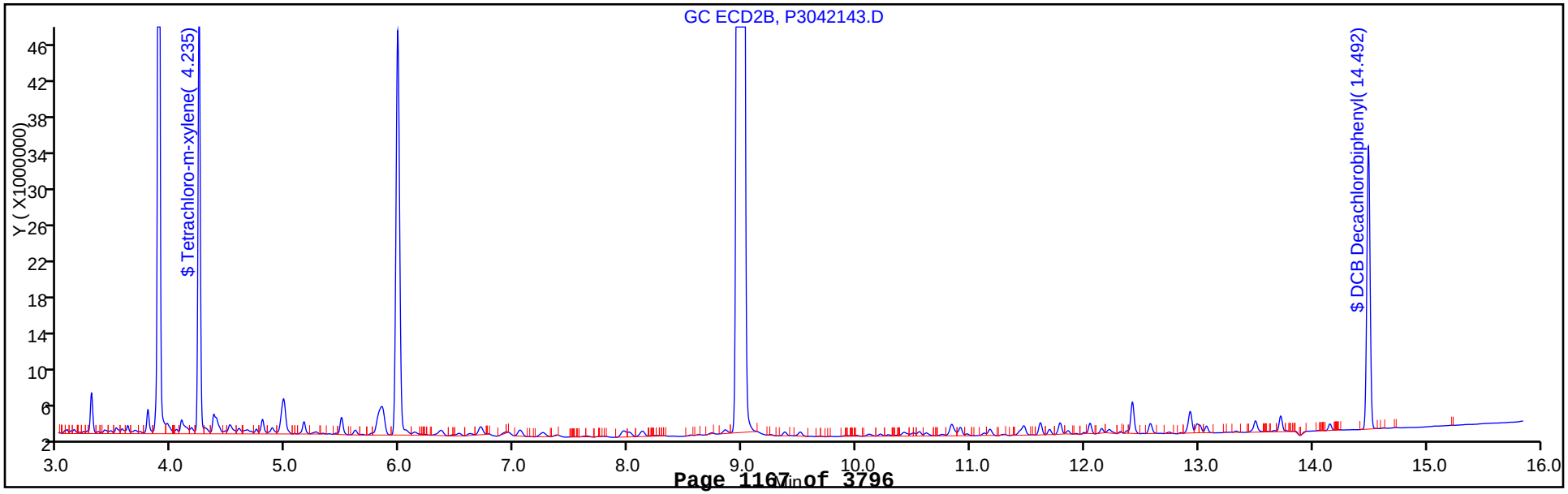
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042143.D

Injection Date:	22-Apr-2015 04:55:18	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-B-1-E	Lab Sample ID:	240-49236-1	Worklist Smp#:	43
Client ID:	079SB-0383-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW RE | Lab Sample ID: 240-49236-2 RE

Matrix: Water (TCLP) | Lab File ID: P3042713.D

Analysis Method: 8081A | Date Collected: 04/10/2015 08:30

Extraction Method: 3520C | Date Extracted: 04/22/2015 15:15

Sample wt/vol: 200(mL) | Date Analyzed: 04/27/2015 15:27

Con. Extract Vol.: 3(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	0.0015	U Q	0.038	0.0015	0.00018
72-20-8	Endrin	0.00015	U Q J	0.013	0.00015	0.000016
58-89-9	gamma-BHC (Lindane)	0.00015	U Q	0.013	0.00015	0.000016
76-44-8	Heptachlor	0.00015	U Q J	0.013	0.00015	0.000018
1024-57-3	Heptachlor epoxide	0.00015	U Q J	0.013	0.00015	0.000019
72-43-5	Methoxychlor	0.00015	U Q J	0.038	0.00015	0.000016
8001-35-2	Toxaphene	0.0060	U Q	0.63	0.0060	0.00024

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	4	Q	44-144
877-09-8	Tetrachloro-m-xylene	35	Q	44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042713.D
Lims ID: 240-49236-F-2-H Lab Sample ID: 240-49236-2
Client ID: 079SB-0384-0001-IDW
Sample Type: Client
Inject. Date: 27-Apr-2015 15:27:52 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-013
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:19:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.551	3.550	0.001	23220908	23.6	
2	4.232	4.231	0.001	19024645	16.9	
					RPD = 33.24	
5 gamma-BHC (Lindane)						
1		4.633			ND	
2		5.744				
8 Chlordane (technical)						
1		5.161			ND	
1		6.047				
1		7.325				
1		7.669				
2		6.319				
2		7.942				
2		9.276				
2		9.574				
9 Heptachlor						
1		5.276			ND	
2		6.645				
12 Heptachlor epoxide						
1		7.013			ND	
2		8.882				
18 Endrin						
1		8.955			ND	
2		10.672				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
24 Toxaphene						
1		9.608			ND	
1		10.072				
1		10.384				
1		10.723				
1		10.833				
2		11.019				
2		11.186				
2		11.611				
2		12.346				
2		12.436				
27 Methoxychlor						
1		10.785			ND	
2		12.546				
$ 30 DCB Decachlorobiphenyl						
1	12.930	12.930	0.000	2247268	2.40	
2	14.483	14.484	-0.001	2449574	2.41	
					RPD = 0.27	

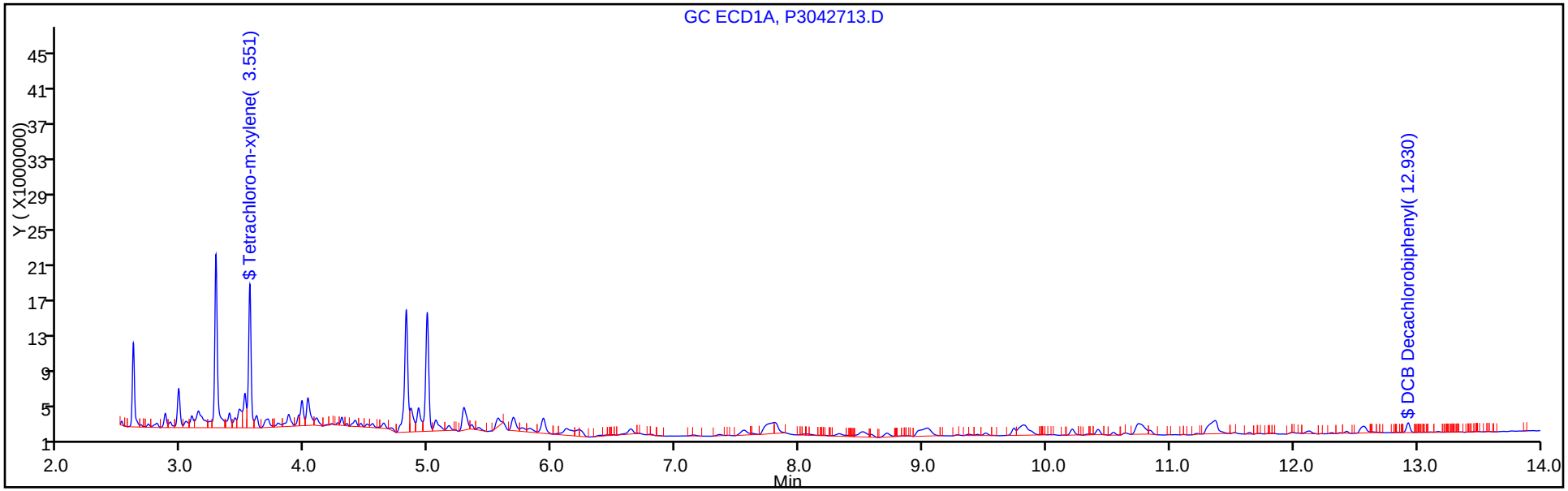
Report Date: 28-Apr-2015 08:11:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

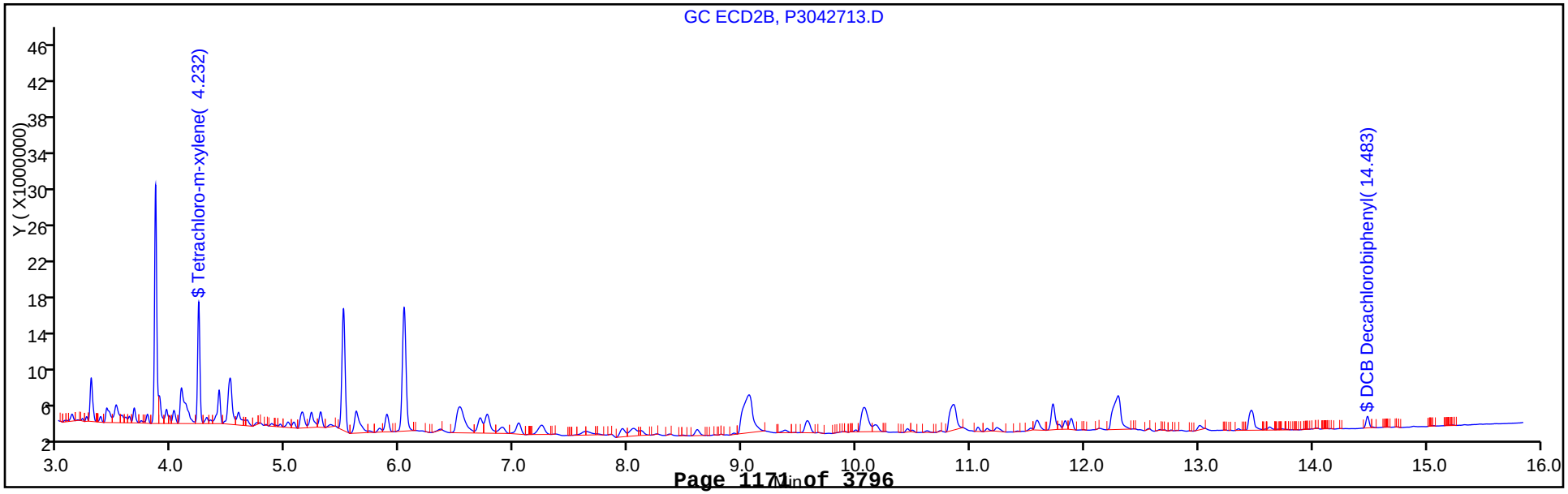
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042713.D

Injection Date:	27-Apr-2015 15:27:52	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-F-2-H	Lab Sample ID:	240-49236-2	Worklist Smp#:	13
Client ID:	079SB-0384-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW RE Lab Sample ID: 240-49236-2 RE

Matrix: Water (TCLP) Lab File ID: P3042713.D

Analysis Method: 8081A Date Collected: 04/10/2015 08:30

Extraction Method: 3520C Date Extracted: 04/22/2015 15:15

Sample wt/vol: 200(mL) Date Analyzed: 04/27/2015 15:27

Con. Extract Vol.: 3(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	4	Q	44-144
877-09-8	Tetrachloro-m-xylene	25	Q	44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042713.D
Lims ID: 240-49236-F-2-H Lab Sample ID: 240-49236-2
Client ID: 079SB-0384-0001-IDW
Sample Type: Client
Inject. Date: 27-Apr-2015 15:27:52 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-013
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:19:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.551	3.550	0.001	23220908	23.6	
2	4.232	4.231	0.001	19024645	16.9	
					RPD = 33.24	
5 gamma-BHC (Lindane)						
1		4.633			ND	
2		5.744				
8 Chlordane (technical)						
1		5.161			ND	
1		6.047				
1		7.325				
1		7.669				
2		6.319				
2		7.942				
2		9.276				
2		9.574				
9 Heptachlor						
1		5.276			ND	
2		6.645				
12 Heptachlor epoxide						
1		7.013			ND	
2		8.882				
18 Endrin						
1		8.955			ND	
2		10.672				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
24 Toxaphene						
1		9.608			ND	
1		10.072				
1		10.384				
1		10.723				
1		10.833				
2		11.019				
2		11.186				
2		11.611				
2		12.346				
2		12.436				
27 Methoxychlor						
1		10.785			ND	
2		12.546				
$ 30 DCB Decachlorobiphenyl						
1	12.930	12.930	0.000	2247268	2.40	
2	14.483	14.484	-0.001	2449574	2.41	
					RPD = 0.27	

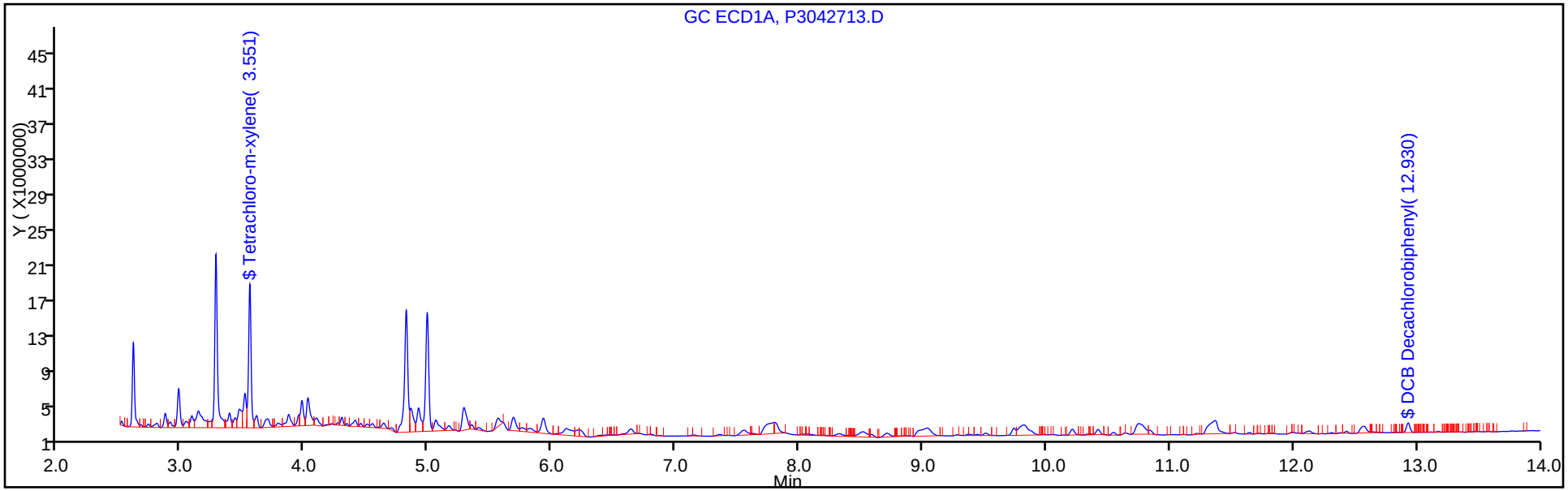
Report Date: 28-Apr-2015 08:11:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

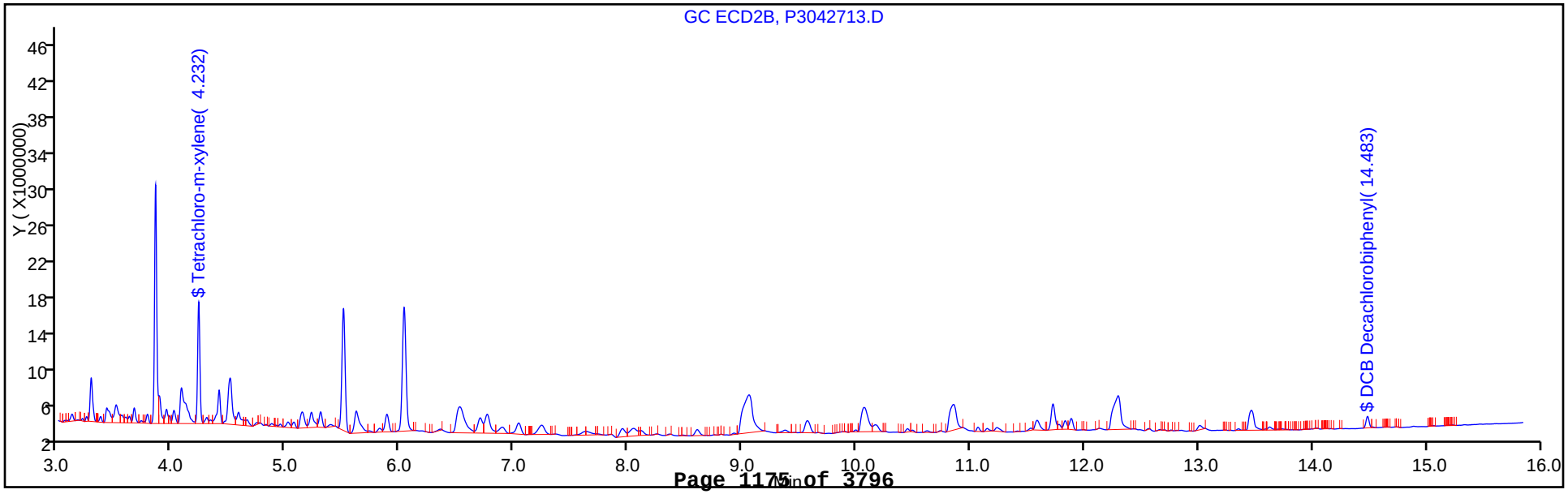
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042713.D

Injection Date:	27-Apr-2015 15:27:52	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-F-2-H	Lab Sample ID:	240-49236-2	Worklist Smp#:	13
Client ID:	079SB-0384-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW RE | Lab Sample ID: 240-49236-3 RE

Matrix: Water | Lab File ID: P3041619.D

Analysis Method: 8081A | Date Collected: 04/10/2015 08:45

Extraction Method: 3520C | Date Extracted: 04/15/2015 09:05

Sample wt/vol: 1040(mL) | Date Analyzed: 04/16/2015 20:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.048	U Q	0.048	0.048	0.017
72-55-9	4,4'-DDE	0.048	U	0.048	0.048	0.012
50-29-3	4,4'-DDT	0.048	U	0.048	0.048	0.016
309-00-2	Aldrin	0.048	U	0.048	0.048	0.013
319-84-6	alpha-BHC	0.048	U	0.048	0.048	0.013
5103-71-9	alpha-Chlordane	0.048	U	0.048	0.048	0.012
319-85-7	beta-BHC	0.048	U	0.048	0.048	0.017
319-86-8	delta-BHC	0.048	U	0.048	0.048	0.028
60-57-1	Dieldrin	0.048	U	0.048	0.048	0.013
959-98-8	Endosulfan I	0.048	U	0.048	0.048	0.015
33213-65-9	Endosulfan II	0.048	U	0.048	0.048	0.014
1031-07-8	Endosulfan sulfate	0.048	U	0.048	0.048	0.014
72-20-8	Endrin	0.048	U	0.048	0.048	0.013
7421-93-4	Endrin aldehyde	0.048	U	0.048	0.048	0.017
53494-70-5	Endrin ketone	0.048	U	0.048	0.048	0.015
58-89-9	gamma-BHC (Lindane)	0.048	U	0.048	0.048	0.013
5103-74-2	gamma-Chlordane	0.048	U	0.048	0.048	0.013
76-44-8	Heptachlor	0.048	U	0.048	0.048	0.013
1024-57-3	Heptachlor epoxide	0.048	U	0.048	0.048	0.014
72-43-5	Methoxychlor	0.048	U	0.096	0.048	0.013
8001-35-2	Toxaphene	1.9	U	1.9	1.9	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	35		30-135
877-09-8	Tetrachloro-m-xylene	78		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041619.D
Lims ID: 240-49236-K-3-A Lab Sample ID: 240-49236-3
Client ID: 079SB-0385-0001-SW
Sample Type: Client
Inject. Date: 16-Apr-2015 20:43:36 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-019
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.562	3.563	-0.001	30526807	31.0	
2	4.240	4.240	0.000	32781887	29.1	
					RPD = 6.49	
4 alpha-BHC						
1		4.258			ND	
2		5.134				
5 gamma-BHC (Lindane)						
1		4.646			ND	
2		5.758				
6 beta-BHC						
1		4.784			ND	
2		5.957				
7 delta-BHC						
1		5.007			ND	
2		6.581				
9 Heptachlor						
1		5.293			ND	
2		6.663				
10 Aldrin						
1		5.759			ND	
2		7.469				
12 Heptachlor epoxide						
1		7.036			ND	
2		8.898				
13 gamma-Chlordane						
1		7.352			ND	
2		9.291				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
14 alpha-Chlordane						
1		7.698			ND	
2		9.589				
15 Endosulfan I						
1		7.971			ND	
2		9.658				
16 4,4'-DDE						
1		8.068			ND	
2		10.016				
17 Dieldrin						
1		8.521			ND	
2		10.172				
18 Endrin						
1		8.973			ND	
2		10.685				
20 4,4'-DDD						
1		9.334			ND	
2		11.009				
21 Endosulfan II						
1		9.422			ND	
2		11.055				
24 Toxaphene						
1		9.626			ND	
1		10.087				
1		10.399				
1		10.741				
1		10.847				
2		11.033				
2		11.200				
2		11.624				
2		12.359				
2		12.449				
23 4,4'-DDT						
1		9.847			ND	
2		11.491				
25 Endrin aldehyde						
1		10.215			ND	
2		11.613				
27 Methoxychlor						
1		10.796			ND	
2		12.557				
28 Endosulfan sulfate						
1		10.939			ND	
2		12.034				
29 Endrin ketone						
1		11.338			ND	
2		12.779				
$ 30 DCB Decachlorobiphenyl						
1	12.939	12.943	-0.004	12948630	13.8	
2	14.496	14.496	0.000	11303531	11.1	

RPD = 21.85

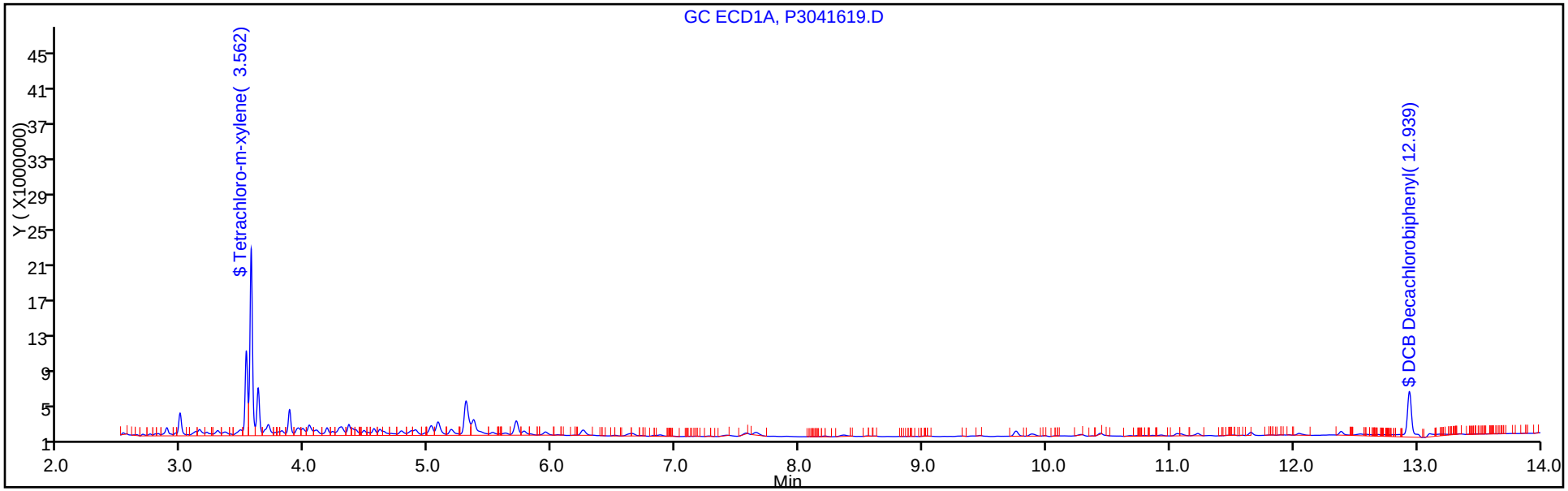
Report Date: 17-Apr-2015 08:37:55 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

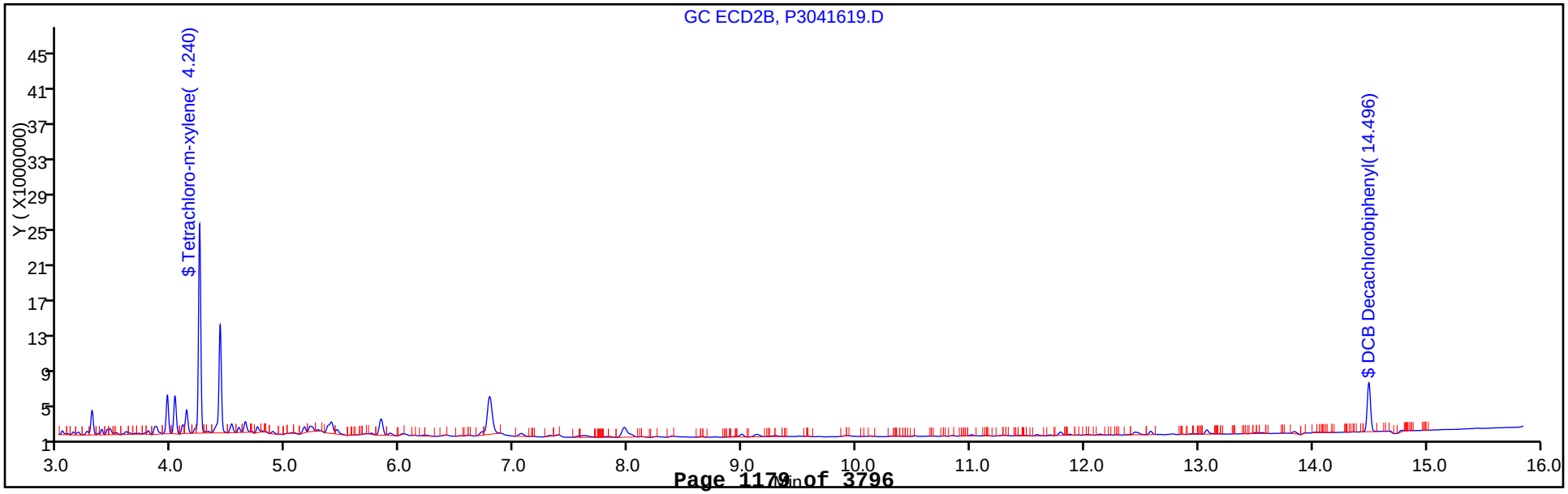
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041619.D

Injection Date:	16-Apr-2015 20:43:36	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-K-3-A	Lab Sample ID:	240-49236-3	Worklist Smp#:	19
Client ID:	079SB-0385-0001-SW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW RE Lab Sample ID: 240-49236-3 RE

Matrix: Water Lab File ID: P3041619.D

Analysis Method: 8081A Date Collected: 04/10/2015 08:45

Extraction Method: 3520C Date Extracted: 04/15/2015 09:05

Sample wt/vol: 1040(mL) Date Analyzed: 04/16/2015 20:43

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	28	Q	30-135
877-09-8	Tetrachloro-m-xylene	73		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041619.D
Lims ID: 240-49236-K-3-A Lab Sample ID: 240-49236-3
Client ID: 079SB-0385-0001-SW
Sample Type: Client
Inject. Date: 16-Apr-2015 20:43:36 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-019
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.562	3.563	-0.001	30526807	31.0	
2	4.240	4.240	0.000	32781887	29.1	
					RPD = 6.49	
4 alpha-BHC						
1		4.258			ND	
2		5.134				
5 gamma-BHC (Lindane)						
1		4.646			ND	
2		5.758				
6 beta-BHC						
1		4.784			ND	
2		5.957				
7 delta-BHC						
1		5.007			ND	
2		6.581				
9 Heptachlor						
1		5.293			ND	
2		6.663				
10 Aldrin						
1		5.759			ND	
2		7.469				
12 Heptachlor epoxide						
1		7.036			ND	
2		8.898				
13 gamma-Chlordane						
1		7.352			ND	
2		9.291				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
14 alpha-Chlordane						
1		7.698			ND	
2		9.589				
15 Endosulfan I						
1		7.971			ND	
2		9.658				
16 4,4'-DDE						
1		8.068			ND	
2		10.016				
17 Dieldrin						
1		8.521			ND	
2		10.172				
18 Endrin						
1		8.973			ND	
2		10.685				
20 4,4'-DDD						
1		9.334			ND	
2		11.009				
21 Endosulfan II						
1		9.422			ND	
2		11.055				
24 Toxaphene						
1		9.626			ND	
1		10.087				
1		10.399				
1		10.741				
1		10.847				
2		11.033				
2		11.200				
2		11.624				
2		12.359				
2		12.449				
23 4,4'-DDT						
1		9.847			ND	
2		11.491				
25 Endrin aldehyde						
1		10.215			ND	
2		11.613				
27 Methoxychlor						
1		10.796			ND	
2		12.557				
28 Endosulfan sulfate						
1		10.939			ND	
2		12.034				
29 Endrin ketone						
1		11.338			ND	
2		12.779				
$ 30 DCB Decachlorobiphenyl						
1	12.939	12.943	-0.004	12948630	13.8	
2	14.496	14.496	0.000	11303531	11.1	

RPD = 21.85

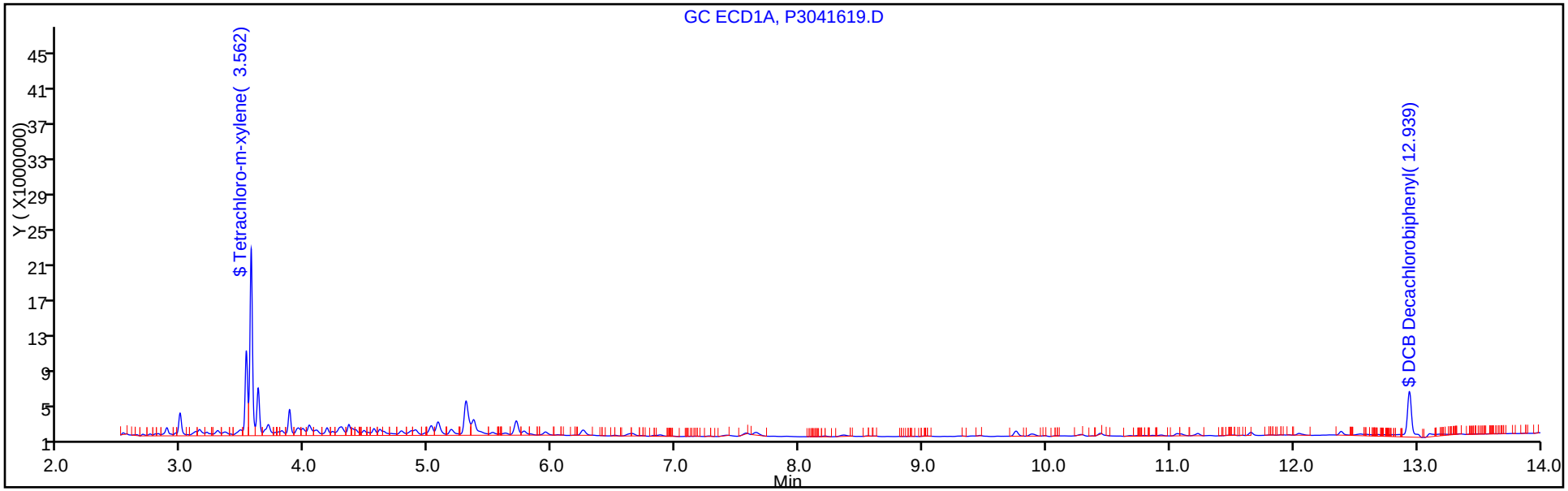
Report Date: 17-Apr-2015 08:37:55 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

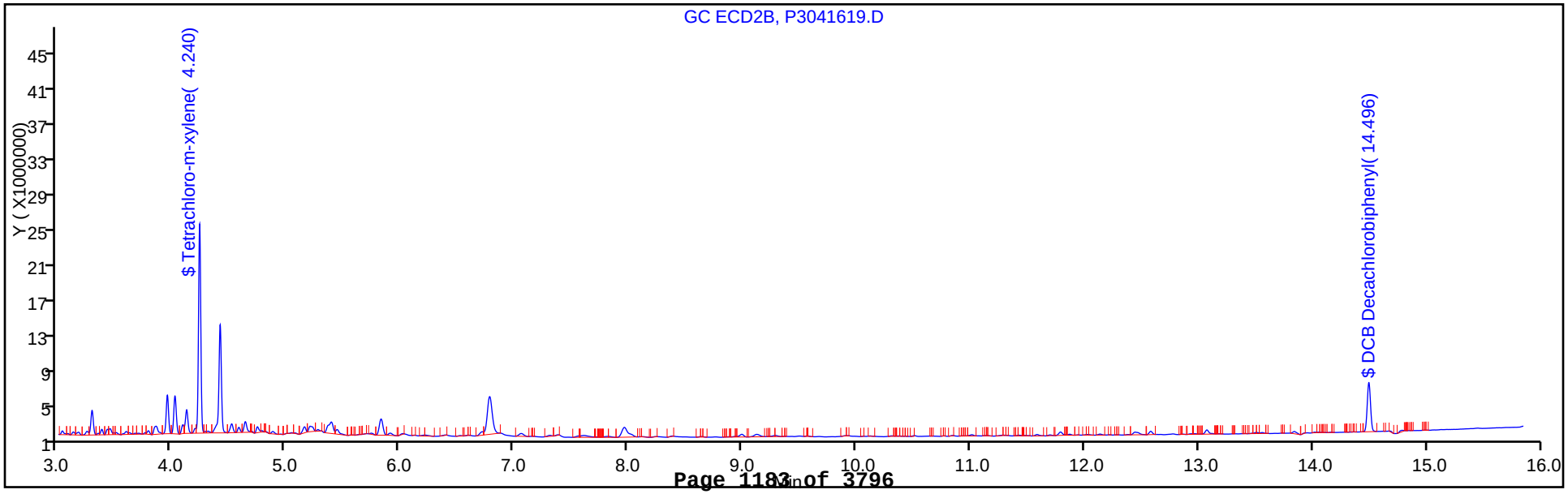
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041619.D

Injection Date:	16-Apr-2015 20:43:36	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-K-3-A	Lab Sample ID:	240-49236-3	Worklist Smp#:	19
Client ID:	079SB-0385-0001-SW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27630

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	9.707	9.709	9.708	9.709	9.707						9.679 - 9.739	9.708
Toxaphene Peak 2	10.168	10.166	10.167	10.167	10.165						10.137 - 10.197	10.167
Toxaphene Peak 3	10.478	10.478	10.478	10.478	10.476						10.448 - 10.508	10.478
Toxaphene Peak 4	10.817	10.817	10.814	10.815	10.814						10.787 - 10.847	10.815
Toxaphene Peak 5	10.922	10.923	10.922	10.924	10.923						10.895 - 10.955	10.923

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27630

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	33404 40248	35287	39031	41193	Ave		37832.5475				8.8		20.0			
Toxaphene Peak 2	33940 37623	34960	37655	39042	Ave		36644.1592				5.8		20.0			
Toxaphene Peak 3	19708 26420	21420	23896	25331	Ave		23354.9331				11.9		20.0			
Toxaphene Peak 4	29918 34558	31534	34529	35340	Ave		33175.8815				7.0		20.0			
Toxaphene Peak 5	25216 37567	29043	33391	36435	Ave		32330.3653				16.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27630

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	6680791	17643317	39031109	82385228	201242128	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	6788028	17480003	37655028	78084498	188116864	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	3941532	10709959	23896272	50661085	132101364	200	500	1000	2000	5000
Toxaphene Peak 4	Ave	5983653	15767196	34529098	70679302	172790007	200	500	1000	2000	5000
Toxaphene Peak 5	Ave	5043128	14521281	33391038	72870864	187835772	200	500	1000	2000	5000

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D
Lims ID: STD TOX1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 15:37:59 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-012
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:20 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.709	-0.002	6680791	200.0	176.6	M
1	10.168	10.167	0.001	6788028	200.0	185.2	M
1	10.478	10.478	0.000	3941532	200.0	168.8	M
1	10.817	10.817	0.000	5983653	200.0	180.4	M
1	10.922	10.925	-0.003	5043128	200.0	156.0	M
		Average of Peak Amounts =				173.4	
2	11.109	11.110	-0.001	9809075	200.0	189.3	M
2	11.275	11.277	-0.002	9537081	200.0	187.1	M
2	11.698	11.700	-0.002	6513590	200.0	182.8	M
2	12.434	12.434	0.000	8469581	200.0	185.6	M
2	12.523	12.523	0.000	2797896	200.0	179.7	M
		Average of Peak Amounts =				184.9	
						RPD = 6.42	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

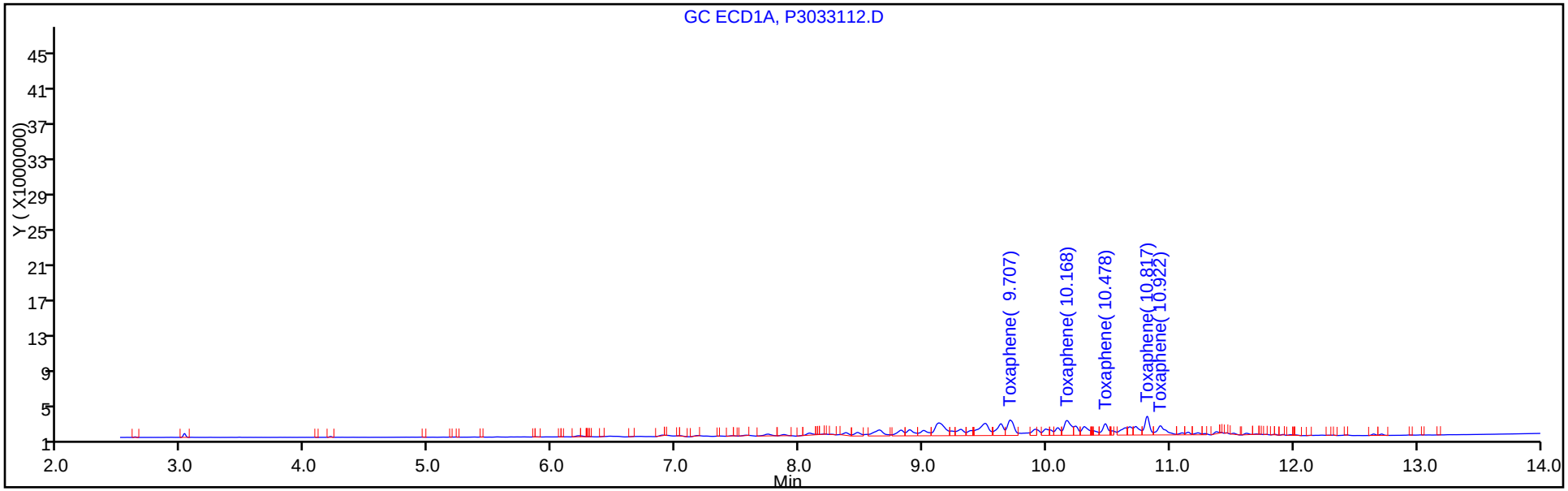
Report Date: 01-Apr-2015 08:57:21 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

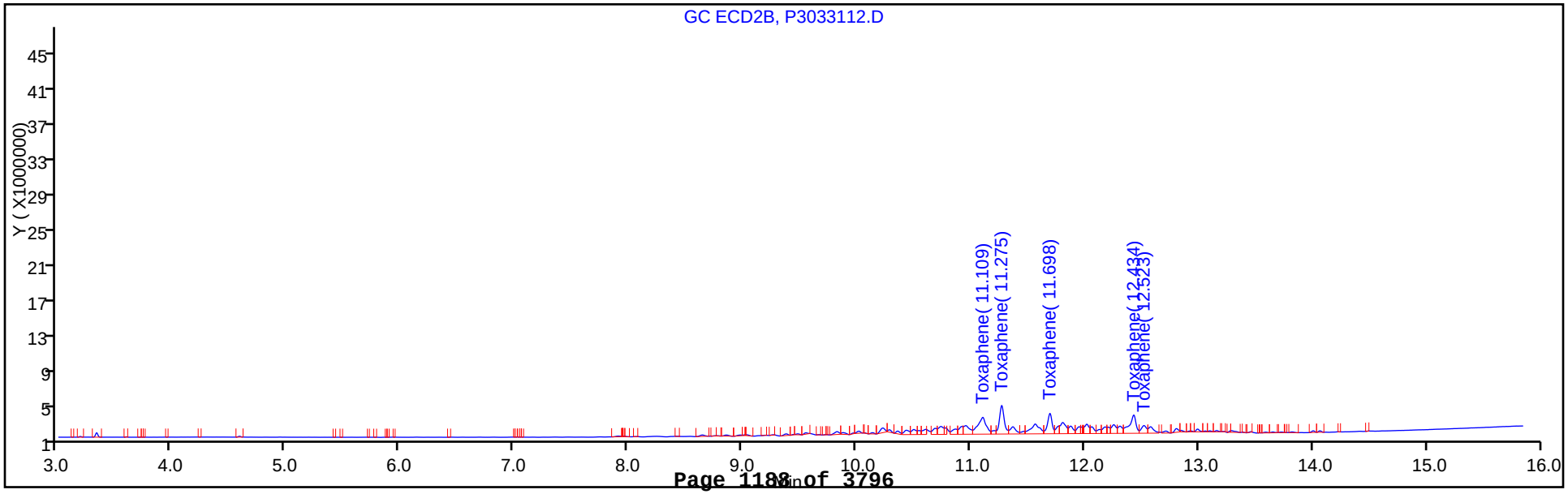
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date:	31-Mar-2015 15:37:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX1			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:22 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date: 31-Mar-2015 15:37:59 Instrument ID: A2HP3

Lims ID: STD TOX1

Client ID:

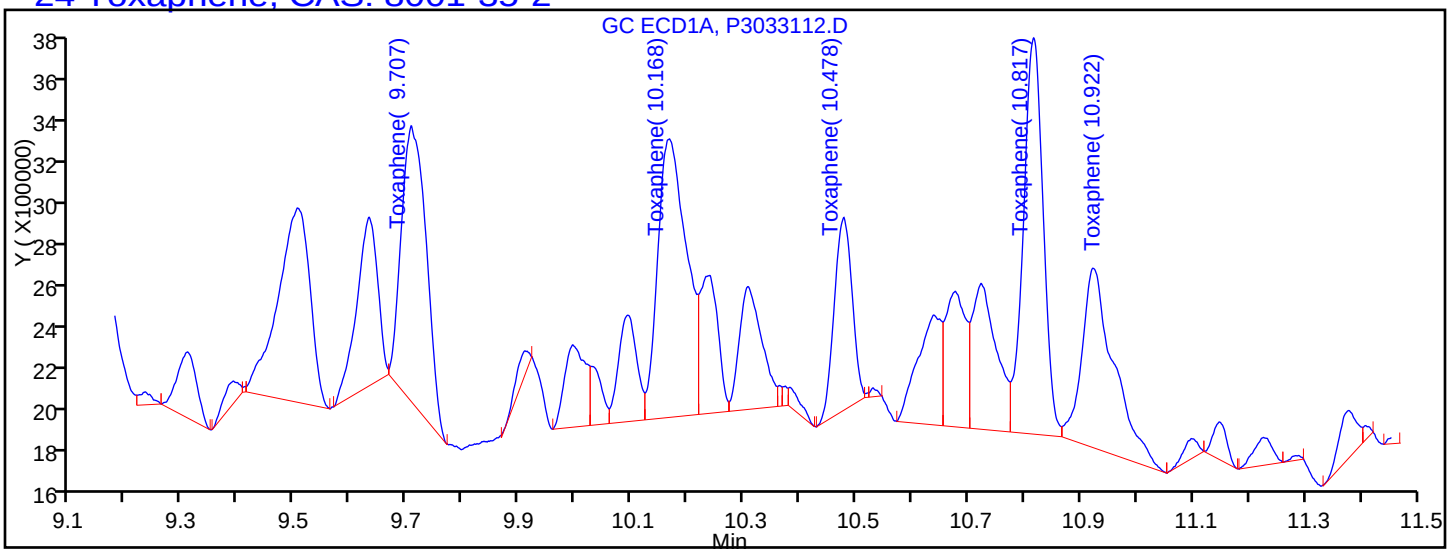
Operator ID: 430893 ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

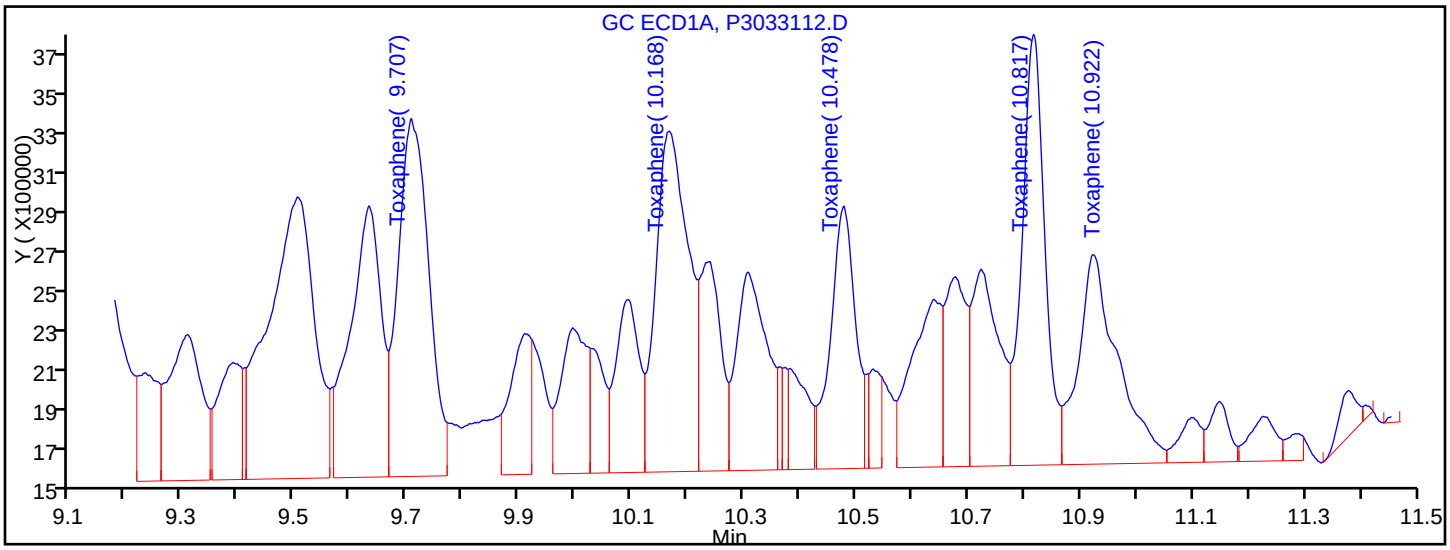
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.707	Response = 4028335	M
RT = 10.168	Response = 4681248	M
RT = 10.478	Response = 2013334	M
RT = 10.817	Response = 4588014	M
RT = 10.922	Response = 3357965	M



Manual Integration Results

RT = 9.707	Response = 6680791	M
RT = 10.168	Response = 6788028	M
RT = 10.478	Response = 3941532	M
RT = 10.817	Response = 5983653	M
RT = 10.922	Response = 5043128	M

Reviewer: matthewsb, 01-Apr-2015 08:31:27

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D
Lims ID: STD TOX2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 16:01:17 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-013
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:23 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:31:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.709	0.000	17643317	500.0	466.4	M
1	10.166	10.167	-0.001	17480003	500.0	477.0	M
1	10.478	10.478	0.000	10709959	500.0	458.6	M
1	10.817	10.817	0.000	15767196	500.0	475.3	M
1	10.923	10.925	-0.002	14521281	500.0	449.2	M
		Average of Peak Amounts =				465.3	
2	11.109	11.110	-0.001	24670801	500.0	476.1	M
2	11.275	11.277	-0.002	24796029	500.0	486.5	M
2	11.697	11.700	-0.003	17040990	500.0	478.1	M
2	12.433	12.434	-0.001	21923625	500.0	480.5	M
2	12.520	12.523	-0.003	7281721	500.0	467.7	M
		Average of Peak Amounts =				477.8	
						RPD = 2.65	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 50.00 Units: uL

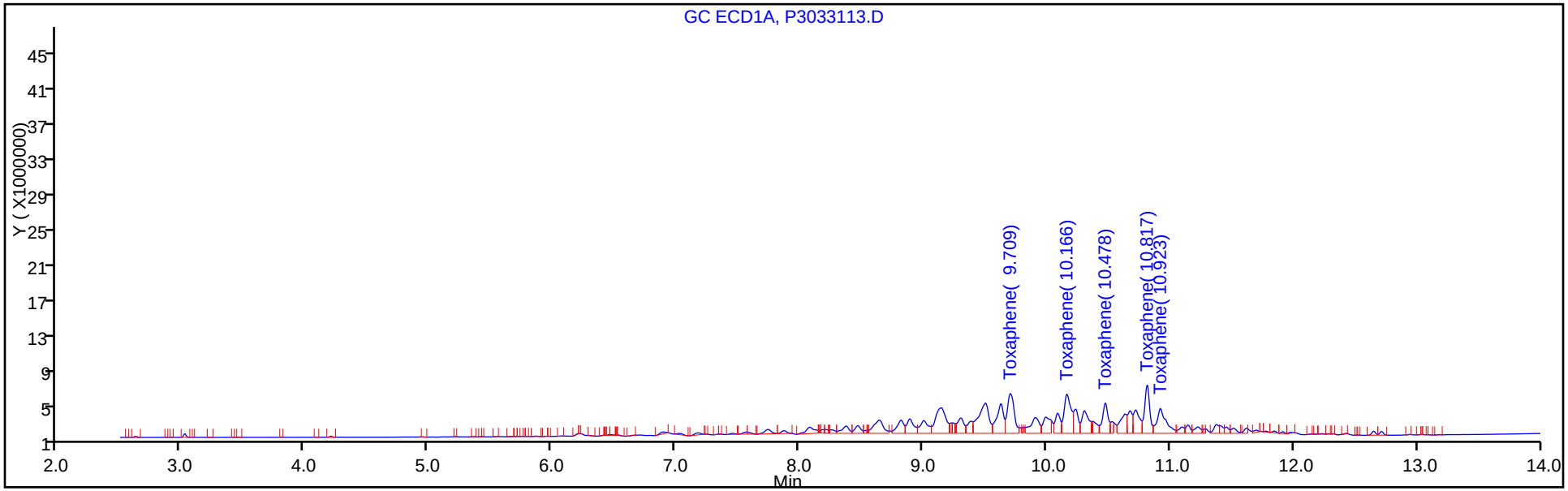
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

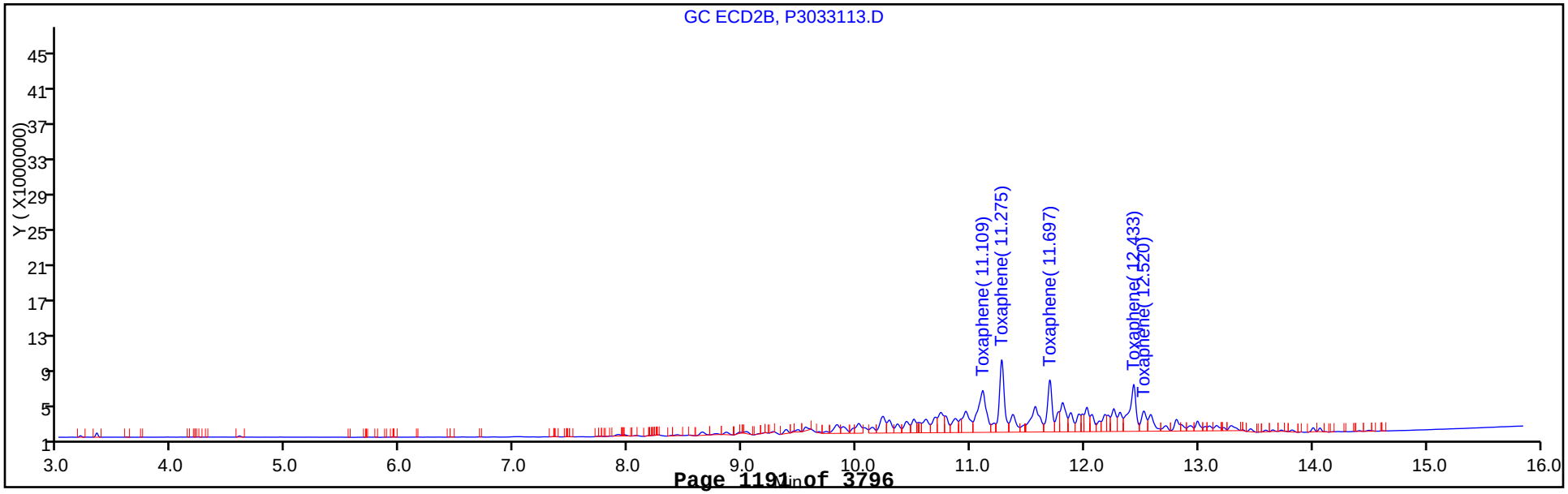
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX2			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



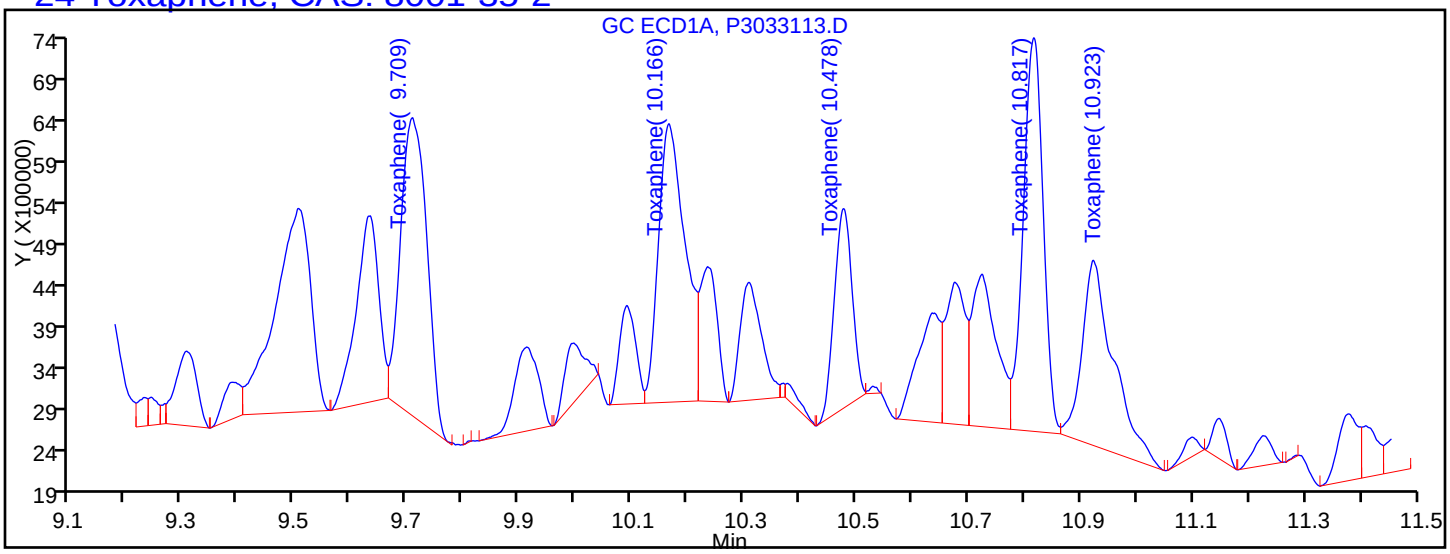
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

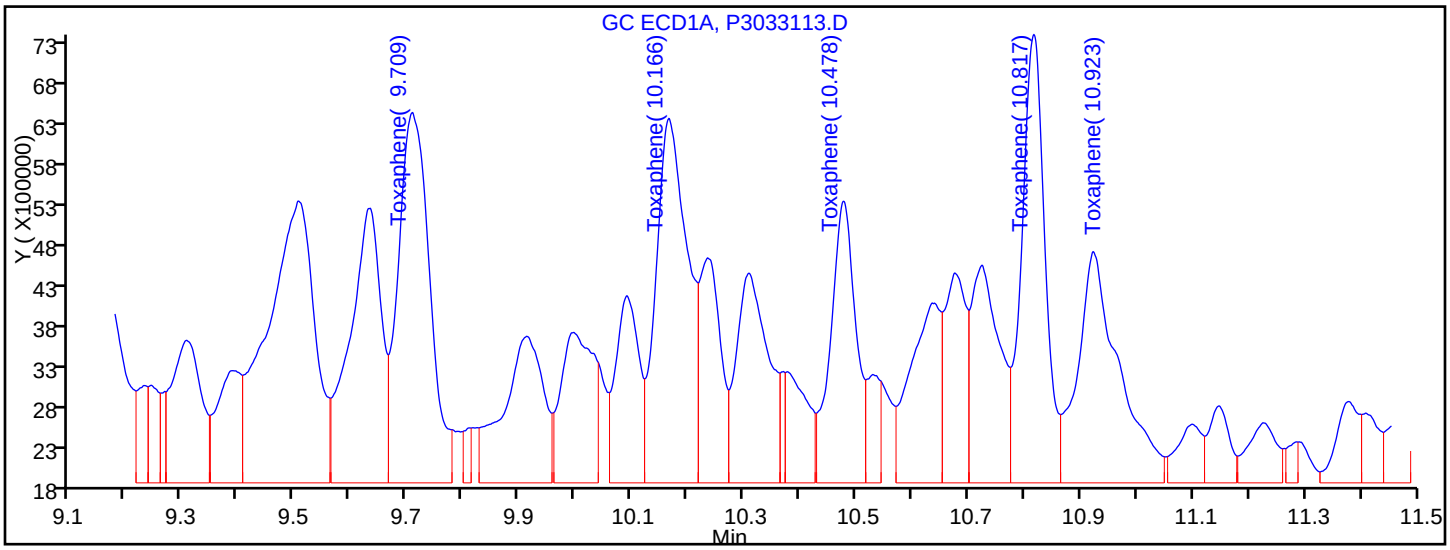
Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3		
Lims ID:	STD TOX2				
Client ID:					
Operator ID:	430893	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ECD1A		

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.709	Response = 11532603	M
RT = 10.166	Response = 10985496	M
RT = 10.478	Response = 5260986	M
RT = 10.817	Response = 11594742	M
RT = 10.923	Response = 8591029	M



Manual Integration Results

RT = 9.709	Response = 17643317	M
RT = 10.166	Response = 17480003	M
RT = 10.478	Response = 10709959	M
RT = 10.817	Response = 15767196	M
RT = 10.923	Response = 14521281	M

Reviewer: matthewsb, 01-Apr-2015 08:31:47

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D
Lims ID: STD TOX3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 16:24:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-014
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:26 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	39031109	1000.0	1031.7	M
1	10.167	10.167	0.000	37655028	1000.0	1027.6	M
1	10.478	10.478	0.000	23896272	1000.0	1023.2	M
1	10.814	10.814	0.000	34529098	1000.0	1040.8	M
1	10.922	10.922	0.000	33391038	1000.0	1032.8	M
		Average of Peak Amounts =				1031.2	
2	11.108	11.108	0.000	51233967	1000.0	988.6	M
2	11.275	11.275	0.000	51076818	1000.0	1002.2	M
2	11.698	11.698	0.000	35702538	1000.0	1001.7	M
2	12.433	12.433	0.000	45291737	1000.0	992.6	M
2	12.523	12.523	0.000	15291056	1000.0	982.1	M
		Average of Peak Amounts =				993.5	
						RPD = 3.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

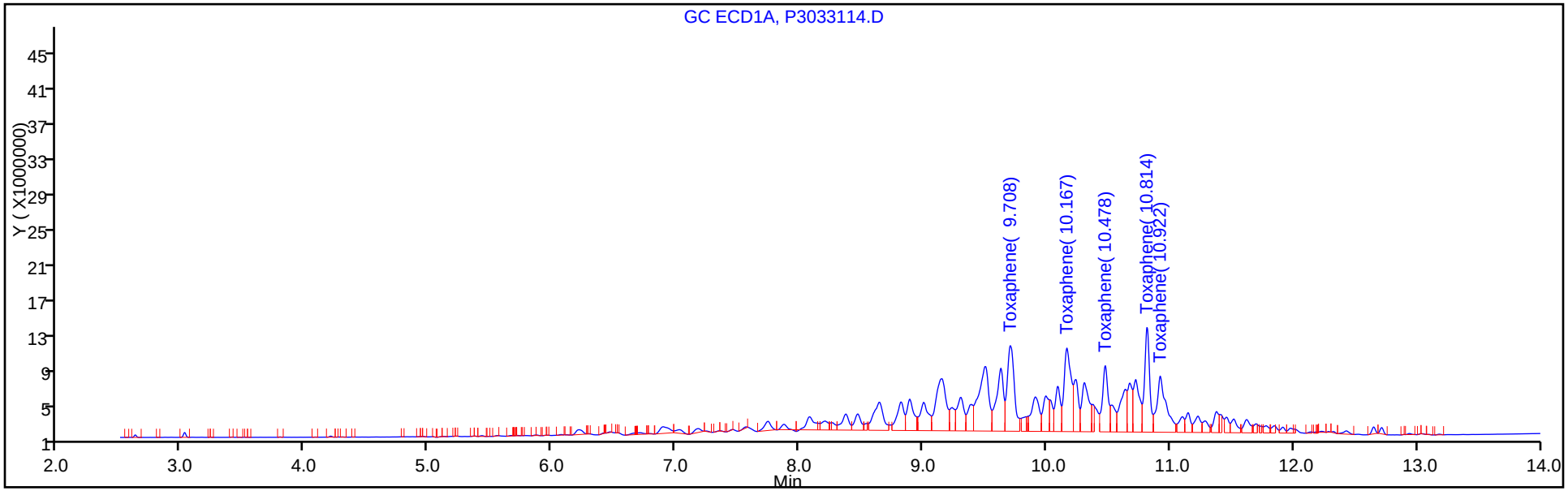
Report Date: 01-Apr-2015 08:57:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

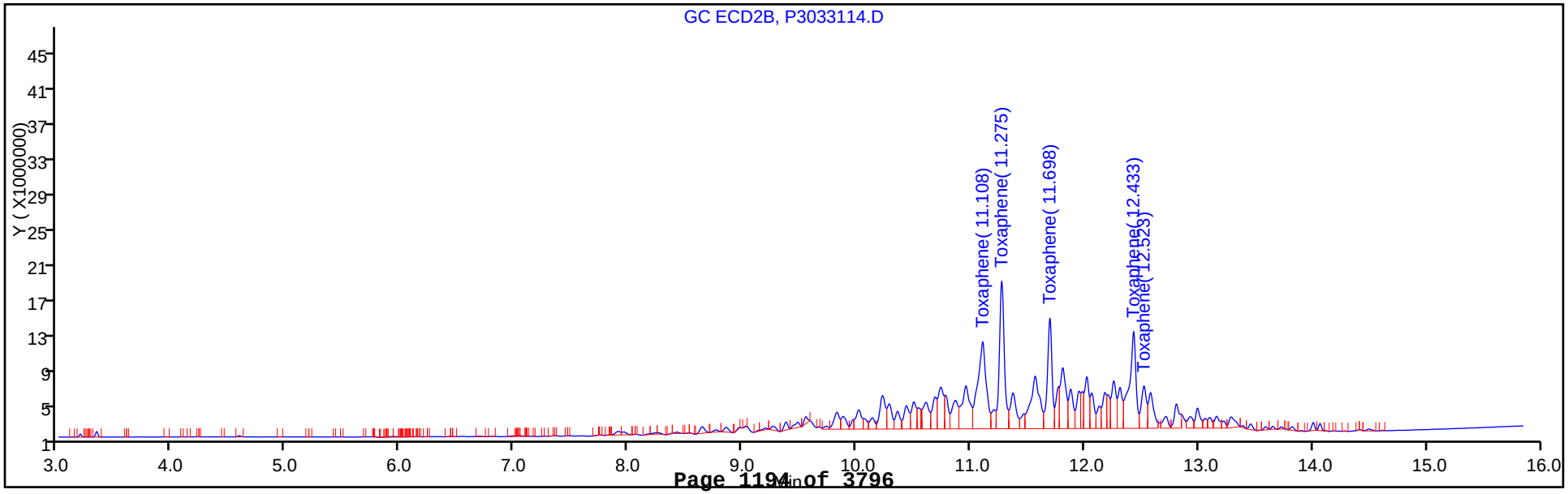
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date:	31-Mar-2015 16:24:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date: 31-Mar-2015 16:24:32 Instrument ID: A2HP3

Lims ID: STD TOX3

Client ID:

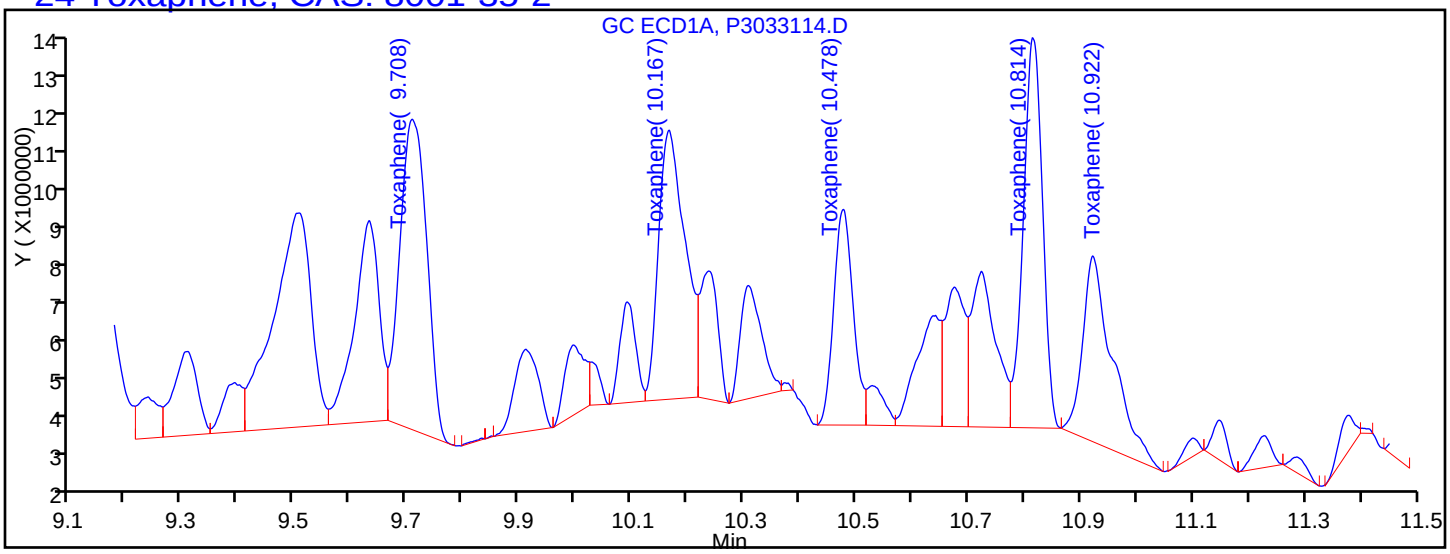
Operator ID: 430893 ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

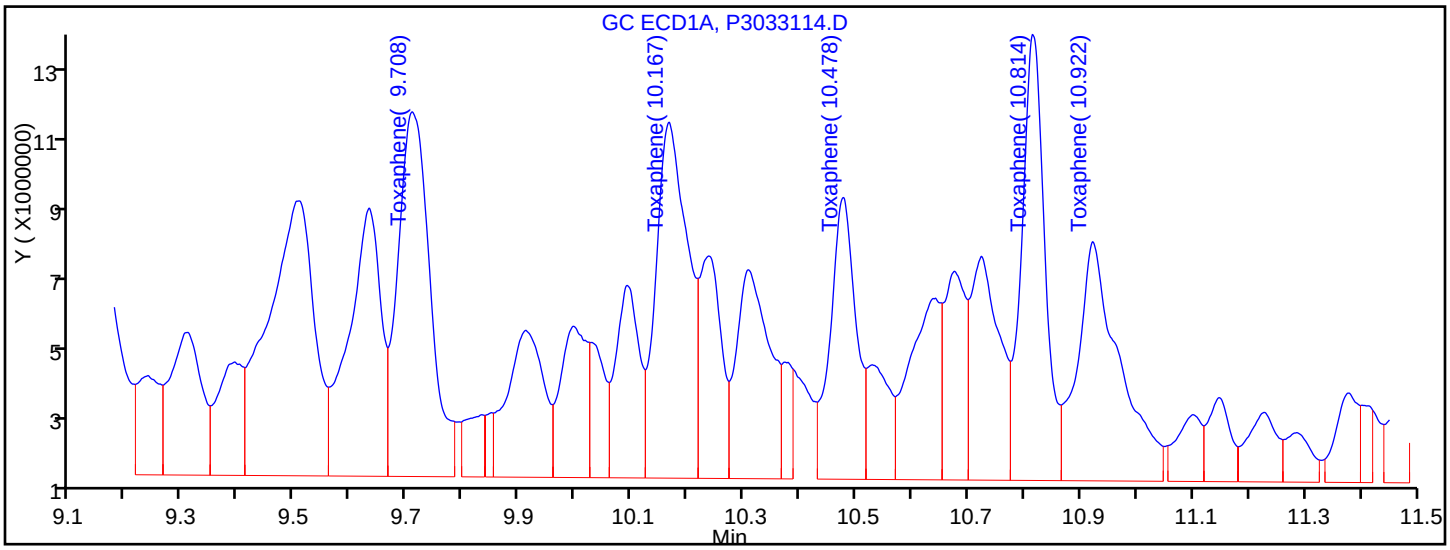
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.708	Response = 26349651	M
RT = 10.167	Response = 22531941	M
RT = 10.478	Response = 13246178	M
RT = 10.814	Response = 23579023	M
RT = 10.922	Response = 17427040	M



Manual Integration Results

RT = 9.708	Response = 39031109	M
RT = 10.167	Response = 37655028	M
RT = 10.478	Response = 23896272	M
RT = 10.814	Response = 34529098	M
RT = 10.922	Response = 33391038	M

Reviewer: matthewsb, 01-Apr-2015 08:32:04

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D
Lims ID: STD TOX4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 16:47:48 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-015
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:29 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.708	0.001	82385228	2000.0	2177.6	M
1	10.167	10.167	0.000	78084498	2000.0	2130.9	M
1	10.478	10.478	0.000	50661085	2000.0	2169.2	M
1	10.815	10.814	0.001	70679302	2000.0	2130.4	M
1	10.924	10.922	0.002	72870864	2000.0	2253.9	M
		Average of Peak Amounts =				2172.4	
2	11.108	11.108	0.000	110160431	2000.0	2125.7	M
2	11.275	11.275	0.000	107527323	2000.0	2109.8	M
2	11.698	11.698	0.000	76152937	2000.0	2136.6	M
2	12.431	12.433	-0.002	97042833	2000.0	2126.8	M
2	12.524	12.523	0.001	34039899	2000.0	2186.3	M
		Average of Peak Amounts =				2137.1	
						RPD = 1.64	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 200.00 Units: uL

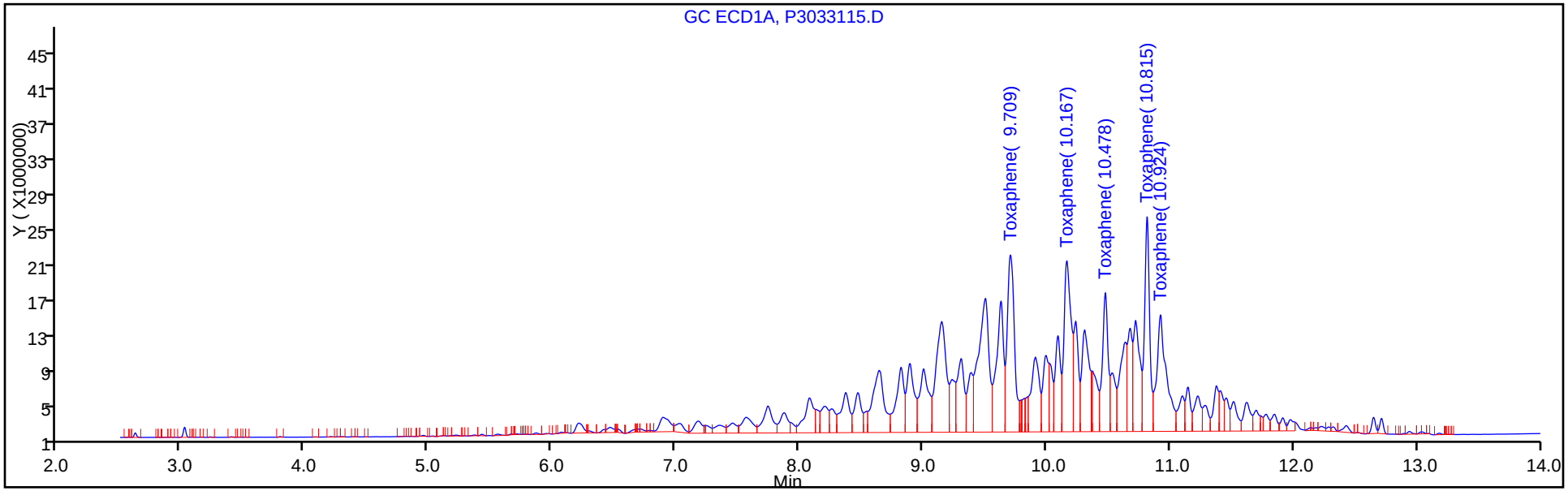
Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

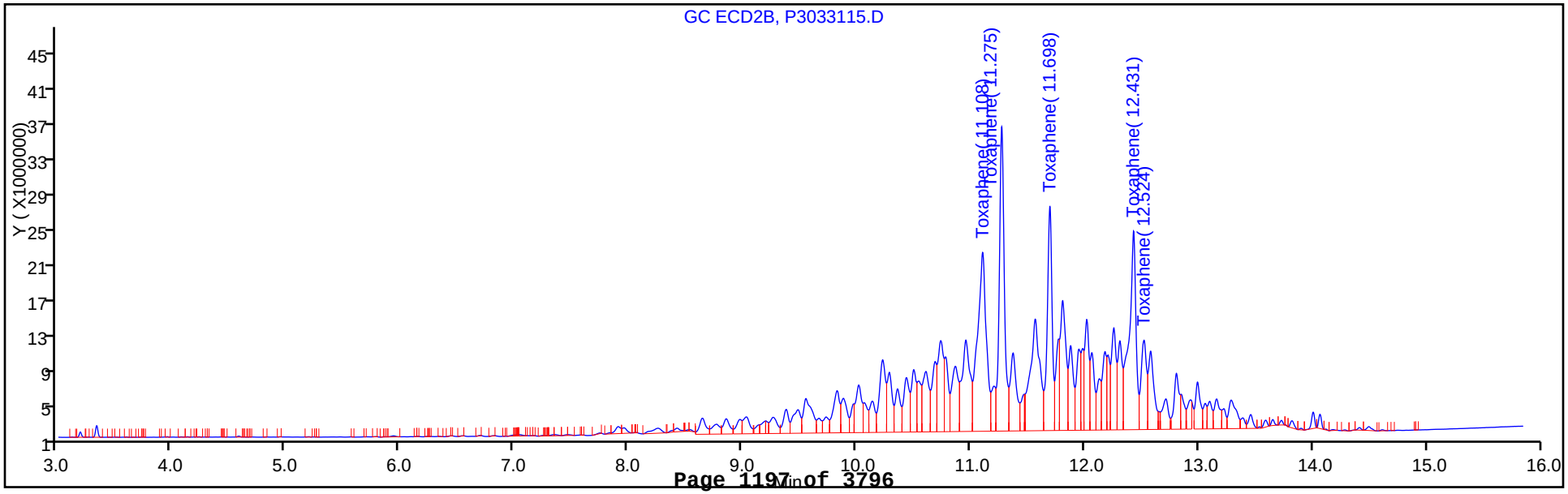
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D

Injection Date:	31-Mar-2015 16:47:48	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX4			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

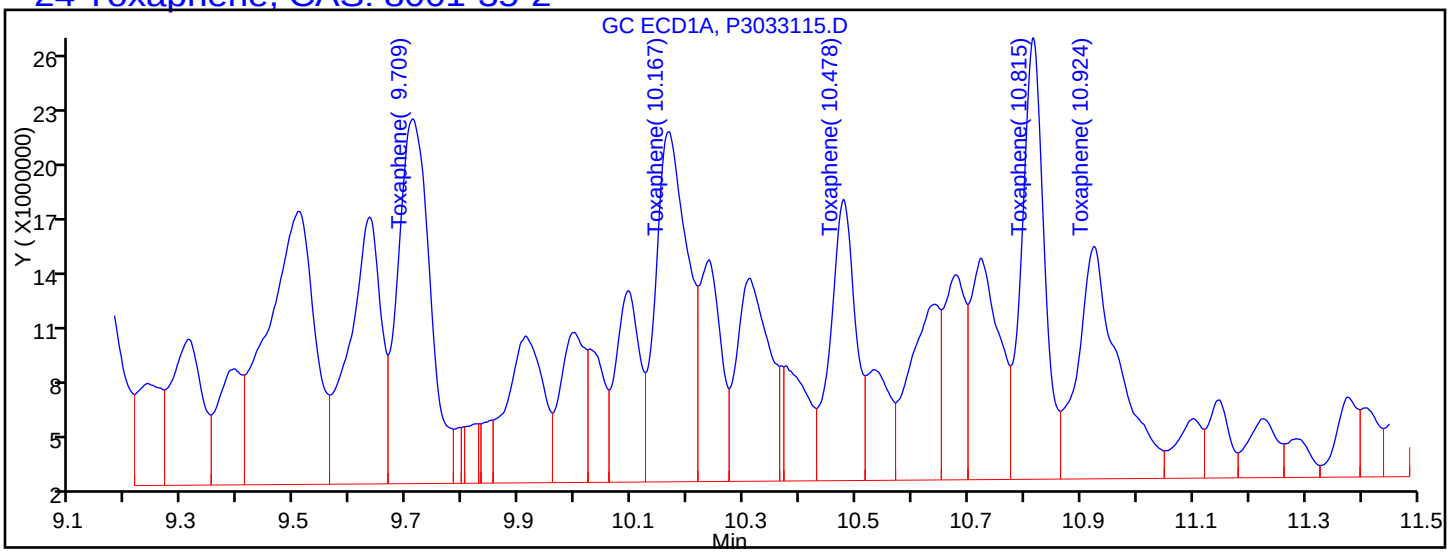


Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

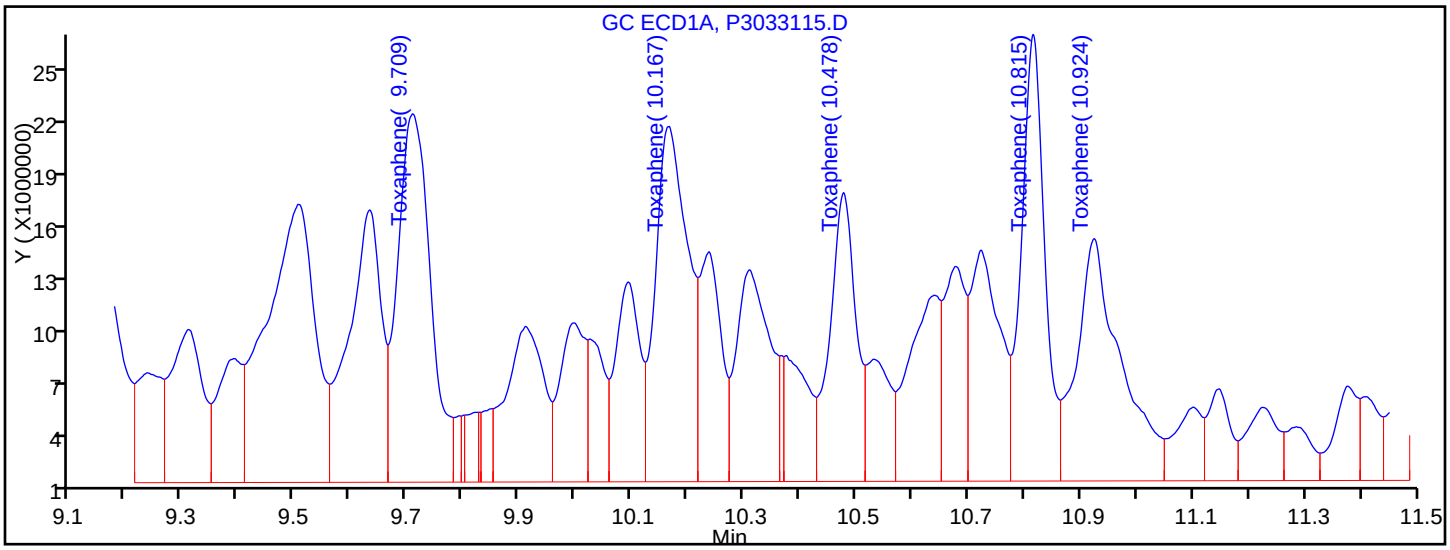
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D
Injection Date: 31-Mar-2015 16:47:48 Instrument ID: A2HP3
Lims ID: STD TOX4
Client ID:
Operator ID: 430893 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PEST3 Limit Group: GC 8081 D0D ICAL
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.709	Response = 78032219	M
RT = 10.167	Response = 74215858	M
RT = 10.478	Response = 46827011	M
RT = 10.815	Response = 66448436	M
RT = 10.924	Response = 63858291	M



Manual Integration Results

RT = 9.709	Response = 82385228	M
RT = 10.167	Response = 78084498	M
RT = 10.478	Response = 50661085	M
RT = 10.815	Response = 70679302	M
RT = 10.924	Response = 72870864	M

Reviewer: matthewsb, 01-Apr-2015 08:32:22
Audit Action: Assigned New Baseline
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D
Lims ID: STD TOX5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 17:11:00 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-016
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.708	-0.001	201242128	5000.0	5319.3	M
1	10.165	10.167	-0.002	188116864	5000.0	5133.6	M
1	10.476	10.478	-0.002	132101364	5000.0	5656.3	M
1	10.814	10.814	0.000	172790007	5000.0	5208.3	M
1	10.923	10.922	0.001	187835772	5000.0	5809.9	M
		Average of Peak Amounts =				5425.5	
2	11.109	11.108	0.001	272057035	5000.0	5249.8	M
2	11.274	11.275	-0.001	263525388	5000.0	5170.8	M
2	11.699	11.698	0.001	188891703	5000.0	5299.8	M
2	12.433	12.433	0.000	240683474	5000.0	5274.8	M
2	12.524	12.523	0.001	84924334	5000.0	5454.4	M
		Average of Peak Amounts =				5289.9	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 500.00 Units: uL

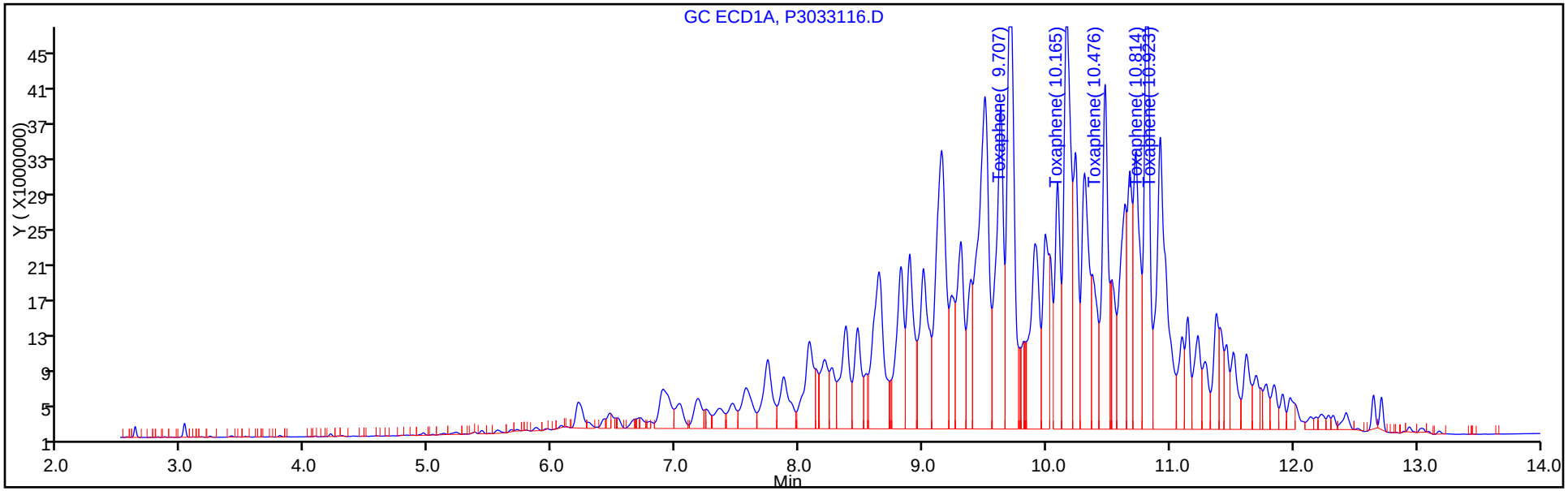
Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

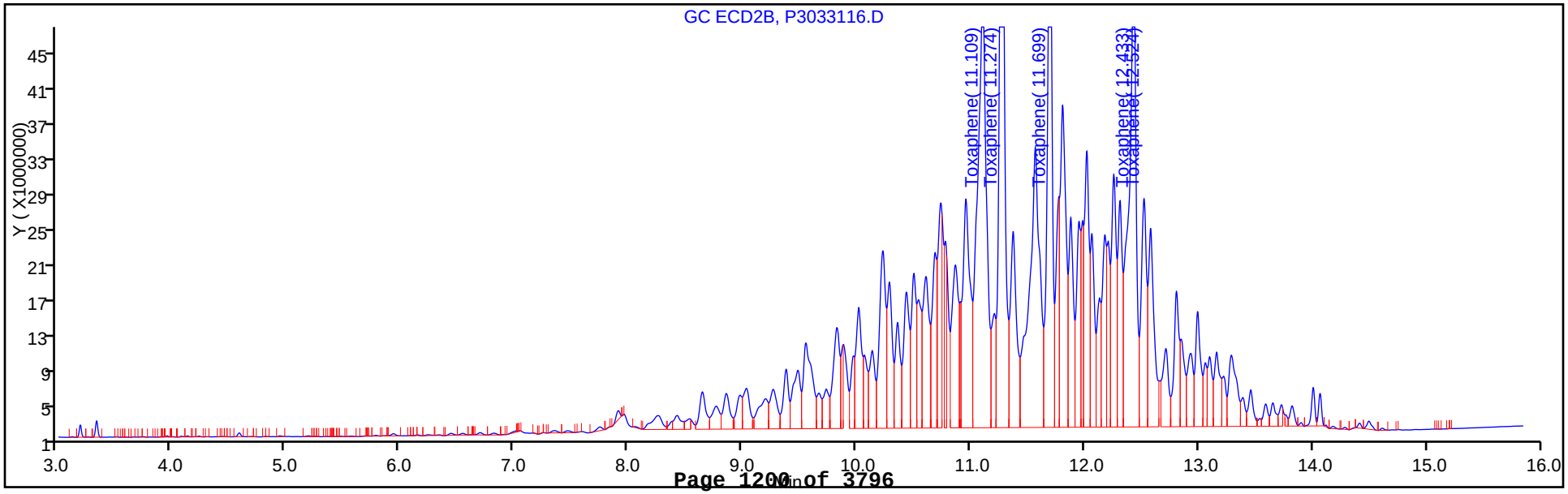
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Injection Date:	31-Mar-2015 17:11:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX5			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



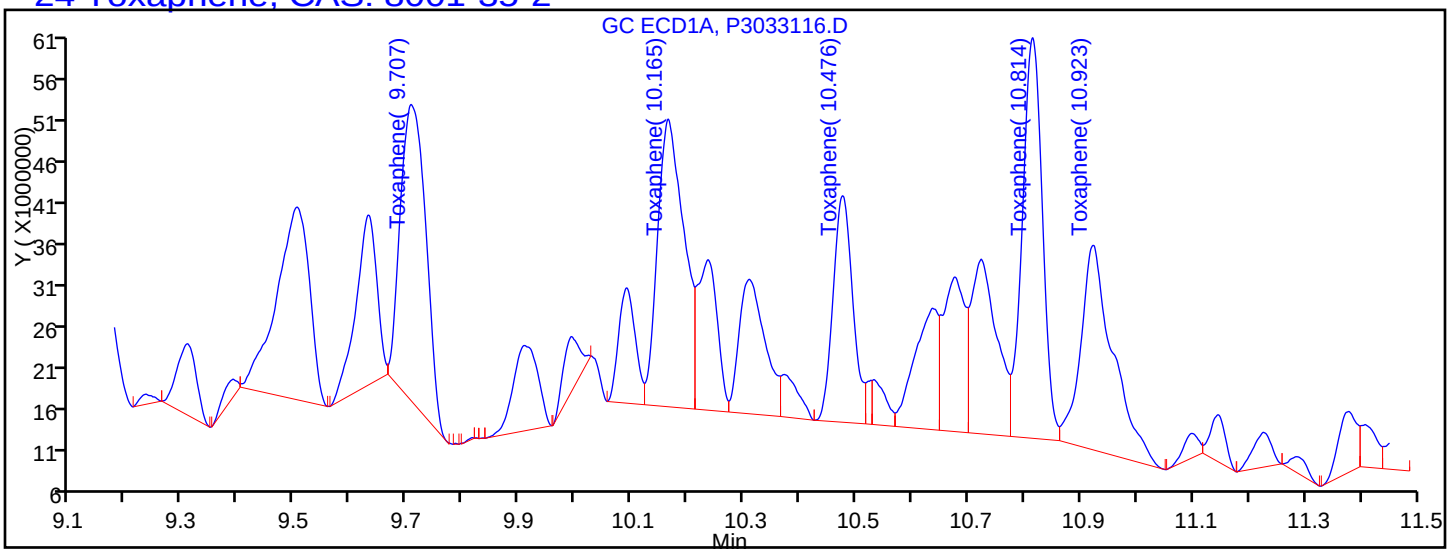
Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

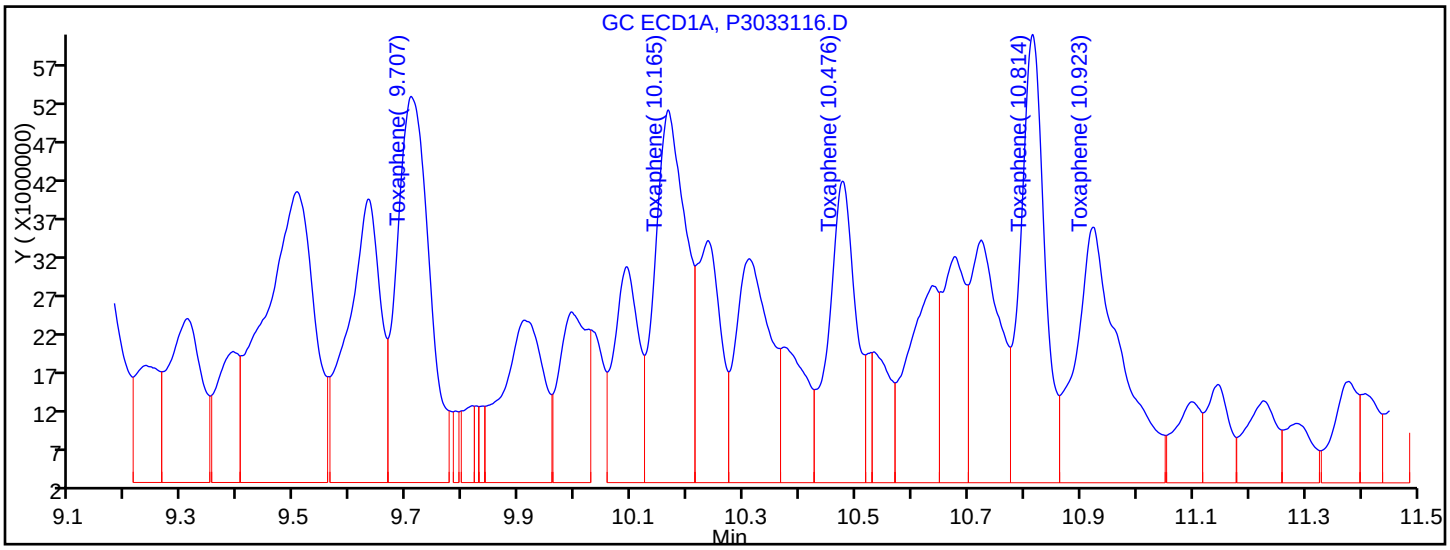
Injection Date:	31-Mar-2015 17:11:00	Instrument ID:	A2HP3
Lims ID:	STD TOX5		
Client ID:			
Operator ID:	430893	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL
Column:		Detector	GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.707	Response = 113589114	M
RT = 10.165	Response = 114318137	M
RT = 10.476	Response = 66929571	M
RT = 10.814	Response = 120945391	M
RT = 10.923	Response = 98831876	M



Manual Integration Results

RT = 9.707	Response = 201242128	M
RT = 10.165	Response = 188116864	M
RT = 10.476	Response = 132101364	M
RT = 10.814	Response = 172790007	M
RT = 10.923	Response = 187835772	M

Reviewer: matthewsb, 01-Apr-2015 08:41:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	11.109	11.109	11.108	11.108	11.109						11.080 - 11.140	11.109
Toxaphene Peak 2	11.275	11.275	11.275	11.275	11.274						11.247 - 11.307	11.275
Toxaphene Peak 3	11.698	11.697	11.698	11.698	11.699						11.670 - 11.730	11.698
Toxaphene Peak 4	12.434	12.433	12.433	12.431	12.433						12.404 - 12.464	12.433
Toxaphene Peak 5	12.523	12.520	12.523	12.524	12.524						12.493 - 12.553	12.523

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	49045 54411	49342	51234	55080	Ave		51822.5133				5.4		20.0			
Toxaphene Peak 2	47685 52705	49592	51077	53764	Ave		50964.6040				4.8		20.0			
Toxaphene Peak 3	32568 37778	34082	35703	38076	Ave		35641.4554				6.6		20.0			
Toxaphene Peak 4	42348 48137	43847	45292	48521	Ave		45629.0007				5.9		20.0			
Toxaphene Peak 5	13989 16985	14563	15291	17020	Ave		15569.7589				8.9		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	9809075	24670801	51233967	110160431	272057035	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	9537081	24796029	51076818	107527323	263525388	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	6513590	17040990	35702538	76152937	188891703	200	500	1000	2000	5000
Toxaphene Peak 4	Ave	8469581	21923625	45291737	97042833	240683474	200	500	1000	2000	5000
Toxaphene Peak 5	Ave	2797896	7281721	15291056	34039899	84924334	200	500	1000	2000	5000

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D
Lims ID: STD TOX1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 15:37:59 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-012
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:20 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.709	-0.002	6680791	200.0	176.6	M
1	10.168	10.167	0.001	6788028	200.0	185.2	M
1	10.478	10.478	0.000	3941532	200.0	168.8	M
1	10.817	10.817	0.000	5983653	200.0	180.4	M
1	10.922	10.925	-0.003	5043128	200.0	156.0	M
		Average of Peak Amounts =				173.4	
2	11.109	11.110	-0.001	9809075	200.0	189.3	M
2	11.275	11.277	-0.002	9537081	200.0	187.1	M
2	11.698	11.700	-0.002	6513590	200.0	182.8	M
2	12.434	12.434	0.000	8469581	200.0	185.6	M
2	12.523	12.523	0.000	2797896	200.0	179.7	M
		Average of Peak Amounts =				184.9	
						RPD = 6.42	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

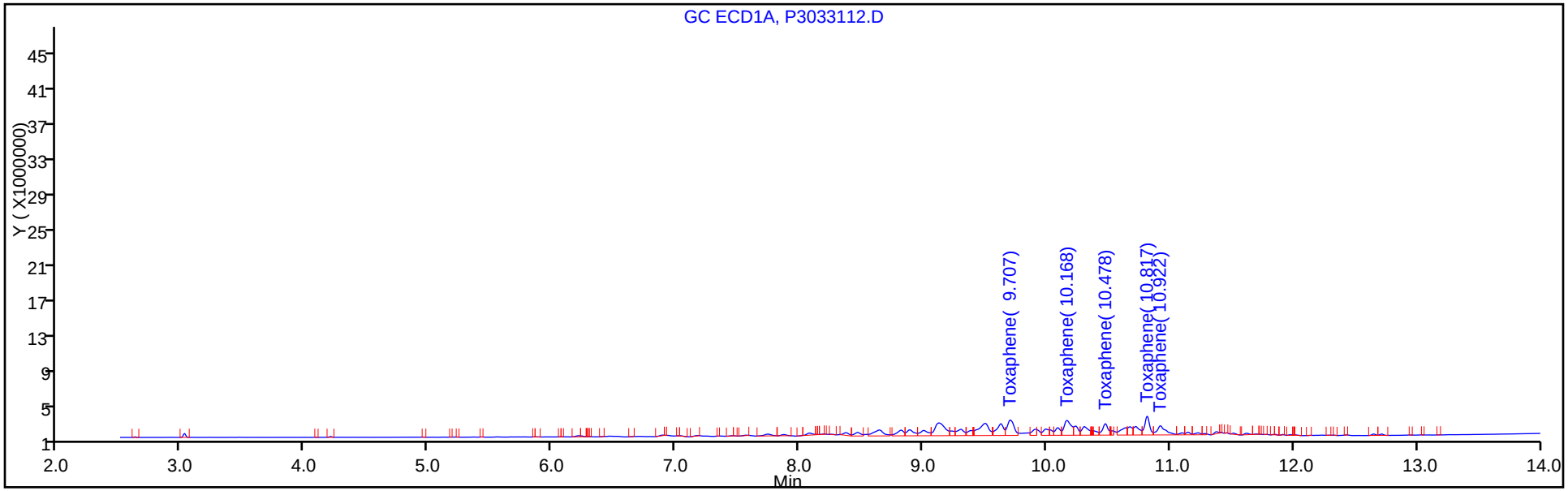
Report Date: 01-Apr-2015 08:57:22 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

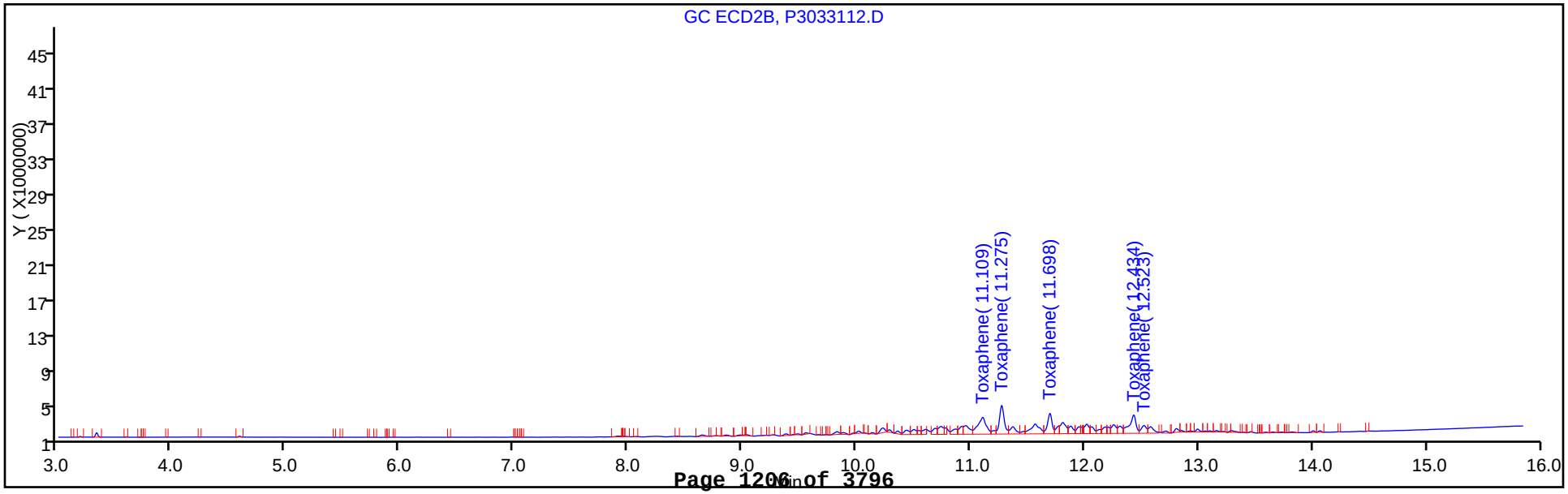
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date:	31-Mar-2015 15:37:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX1			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:22 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date: 31-Mar-2015 15:37:59 Instrument ID: A2HP3

Lims ID: STD TOX1

Client ID:

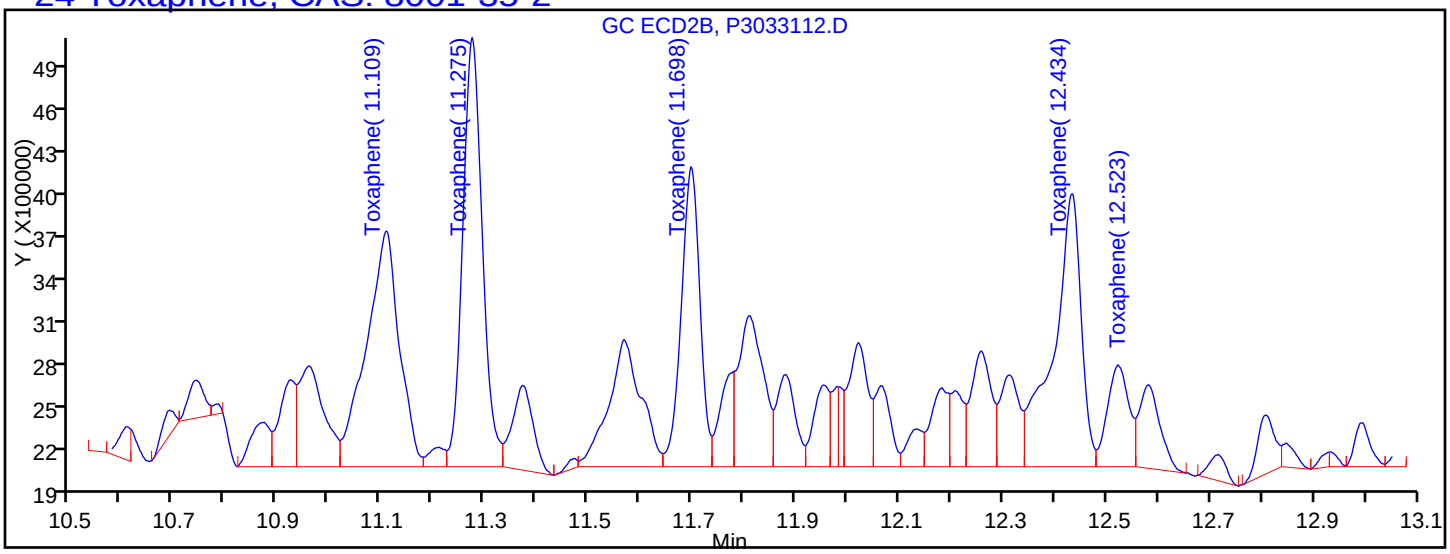
Operator ID: 430893 ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

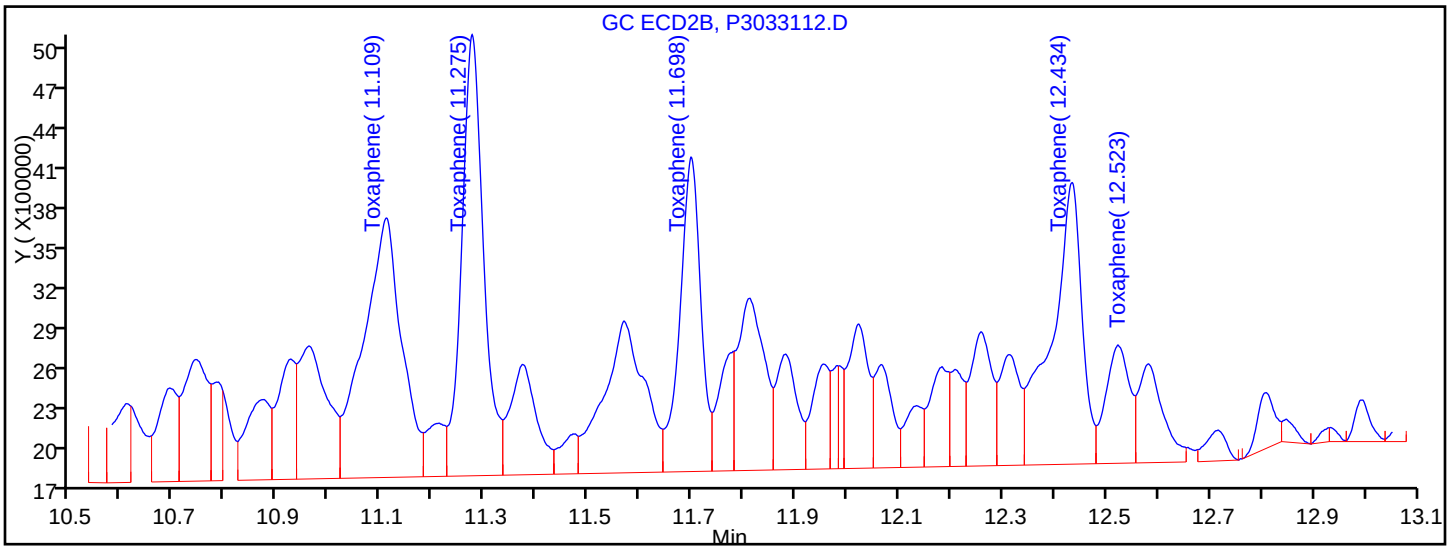
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.109	Response = 7268273	M
RT = 11.275	Response = 7911340	M
RT = 11.698	Response = 5259832	M
RT = 12.434	Response = 7082593	M
RT = 12.523	Response = 2065502	M



Manual Integration Results

RT = 11.109	Response = 9809075	M
RT = 11.275	Response = 9537081	M
RT = 11.698	Response = 6513590	M
RT = 12.434	Response = 8469581	M
RT = 12.523	Response = 2797896	M

Reviewer: matthewsb, 01-Apr-2015 08:31:27

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D
Lims ID: STD TOX2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 16:01:17 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-013
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:23 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:31:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.709	0.000	17643317	500.0	466.4	M
1	10.166	10.167	-0.001	17480003	500.0	477.0	M
1	10.478	10.478	0.000	10709959	500.0	458.6	M
1	10.817	10.817	0.000	15767196	500.0	475.3	M
1	10.923	10.925	-0.002	14521281	500.0	449.2	M
		Average of Peak Amounts =				465.3	
2	11.109	11.110	-0.001	24670801	500.0	476.1	M
2	11.275	11.277	-0.002	24796029	500.0	486.5	M
2	11.697	11.700	-0.003	17040990	500.0	478.1	M
2	12.433	12.434	-0.001	21923625	500.0	480.5	M
2	12.520	12.523	-0.003	7281721	500.0	467.7	M
		Average of Peak Amounts =				477.8	
						RPD = 2.65	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 50.00 Units: uL

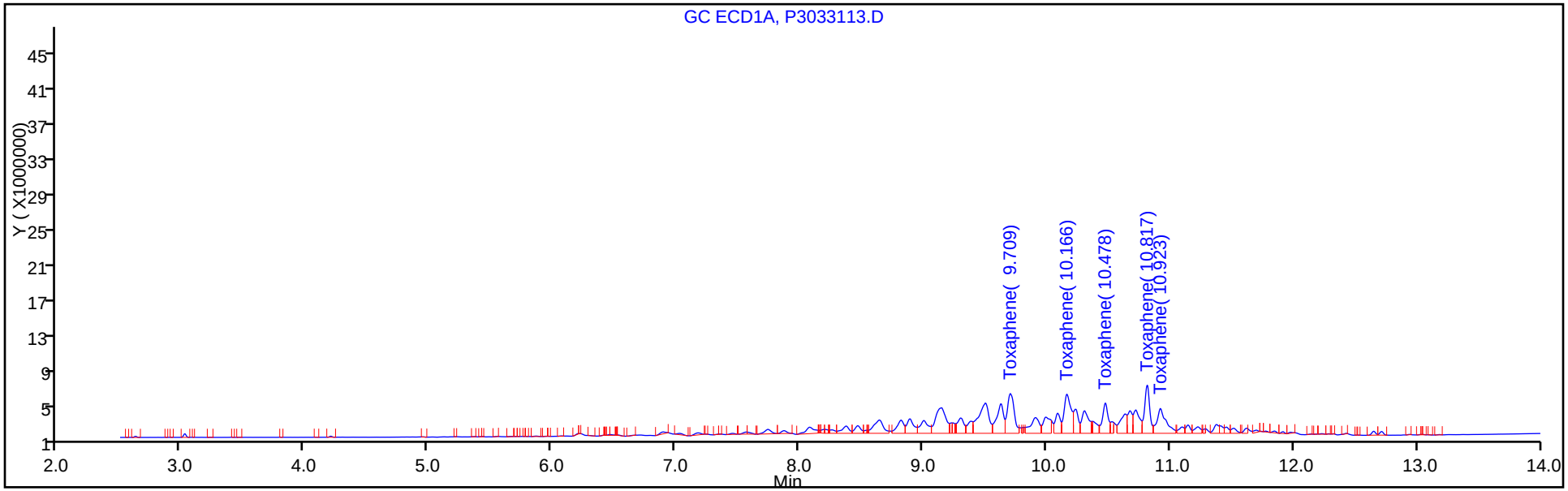
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

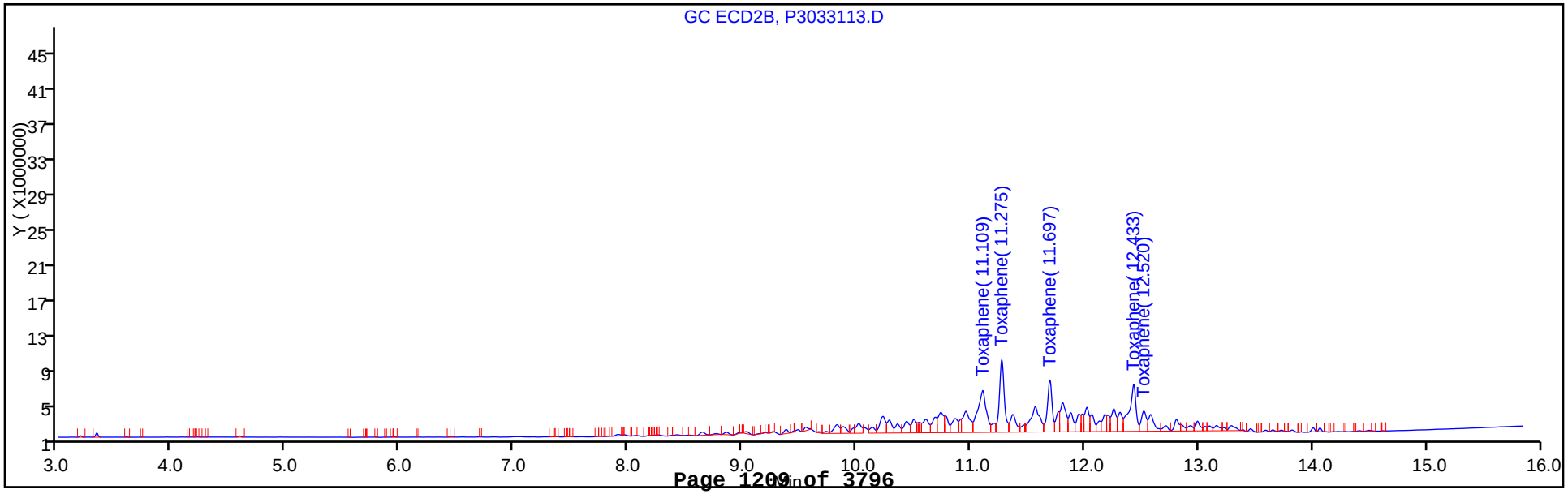
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX2			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



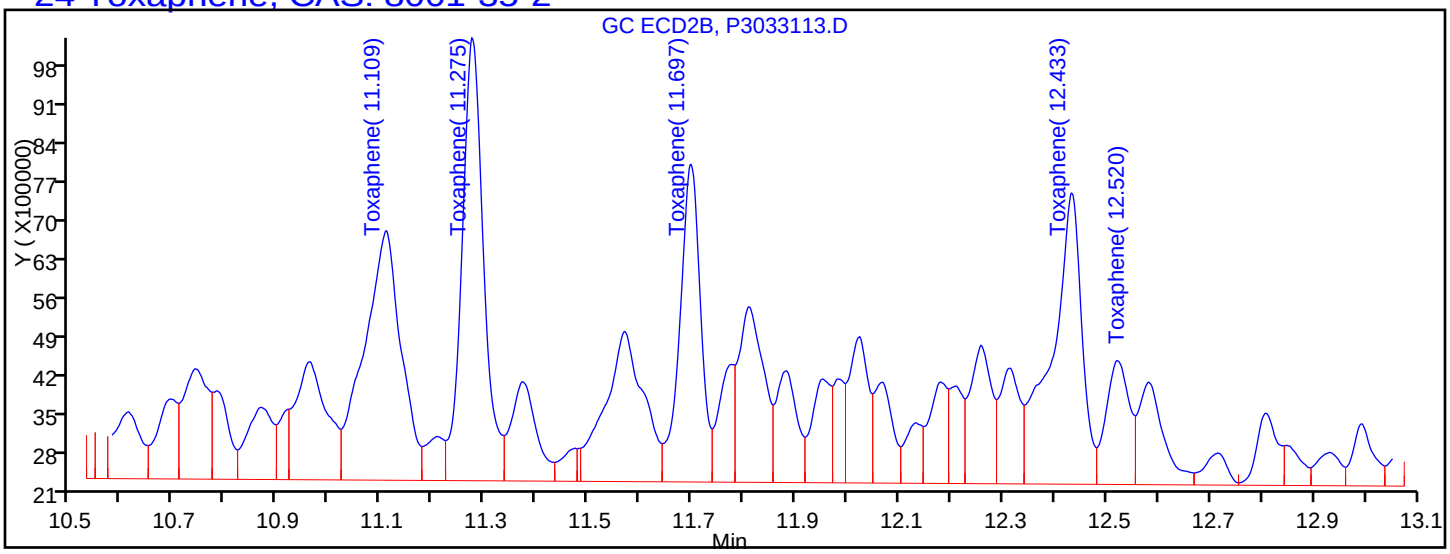
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

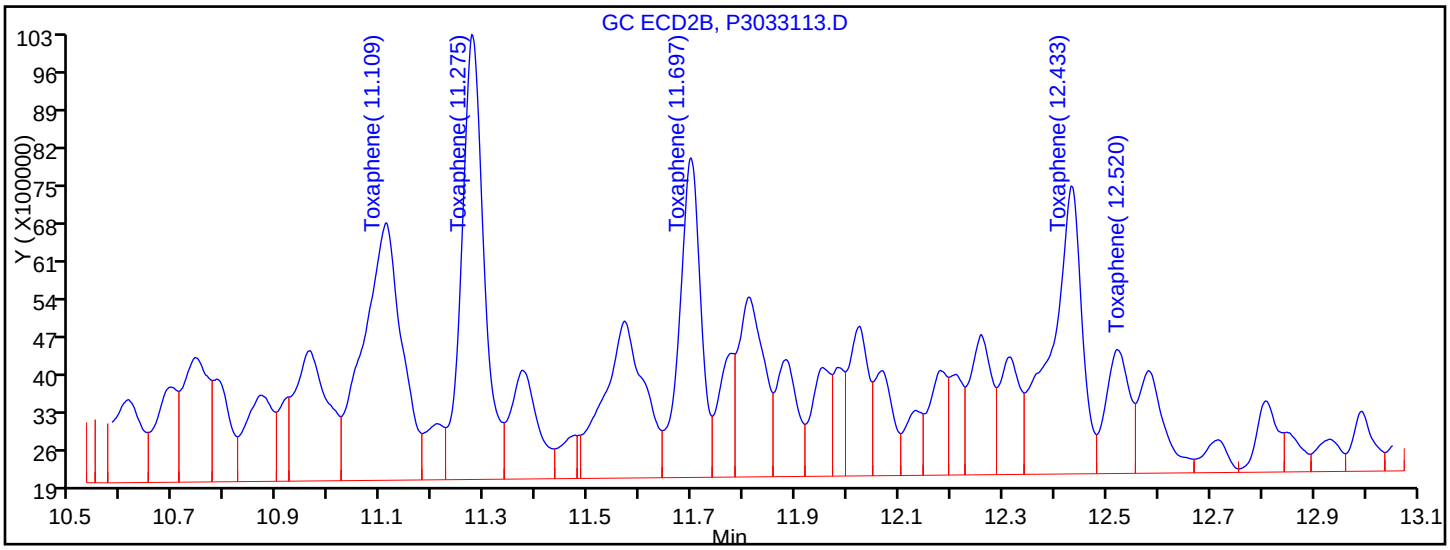
Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3
Lims ID:	STD TOX2		
Client ID:			
Operator ID:	430893	ALS Bottle#:	13 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL
Column:		Detector	GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.109	Response = 22258333	M
RT = 11.275	Response = 23216556	M
RT = 11.697	Response = 16033086	M
RT = 12.433	Response = 21327843	M
RT = 12.520	Response = 7031573	M



Manual Integration Results

RT = 11.109	Response = 24670801	M
RT = 11.275	Response = 24796029	M
RT = 11.697	Response = 17040990	M
RT = 12.433	Response = 21923625	M
RT = 12.520	Response = 7281721	M

Reviewer: matthewsb, 01-Apr-2015 08:31:47

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D
Lims ID: STD TOX3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 16:24:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-014
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:26 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	39031109	1000.0	1031.7	M
1	10.167	10.167	0.000	37655028	1000.0	1027.6	M
1	10.478	10.478	0.000	23896272	1000.0	1023.2	M
1	10.814	10.814	0.000	34529098	1000.0	1040.8	M
1	10.922	10.922	0.000	33391038	1000.0	1032.8	M
		Average of Peak Amounts =				1031.2	
2	11.108	11.108	0.000	51233967	1000.0	988.6	M
2	11.275	11.275	0.000	51076818	1000.0	1002.2	M
2	11.698	11.698	0.000	35702538	1000.0	1001.7	M
2	12.433	12.433	0.000	45291737	1000.0	992.6	M
2	12.523	12.523	0.000	15291056	1000.0	982.1	M
		Average of Peak Amounts =				993.5	
						RPD = 3.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

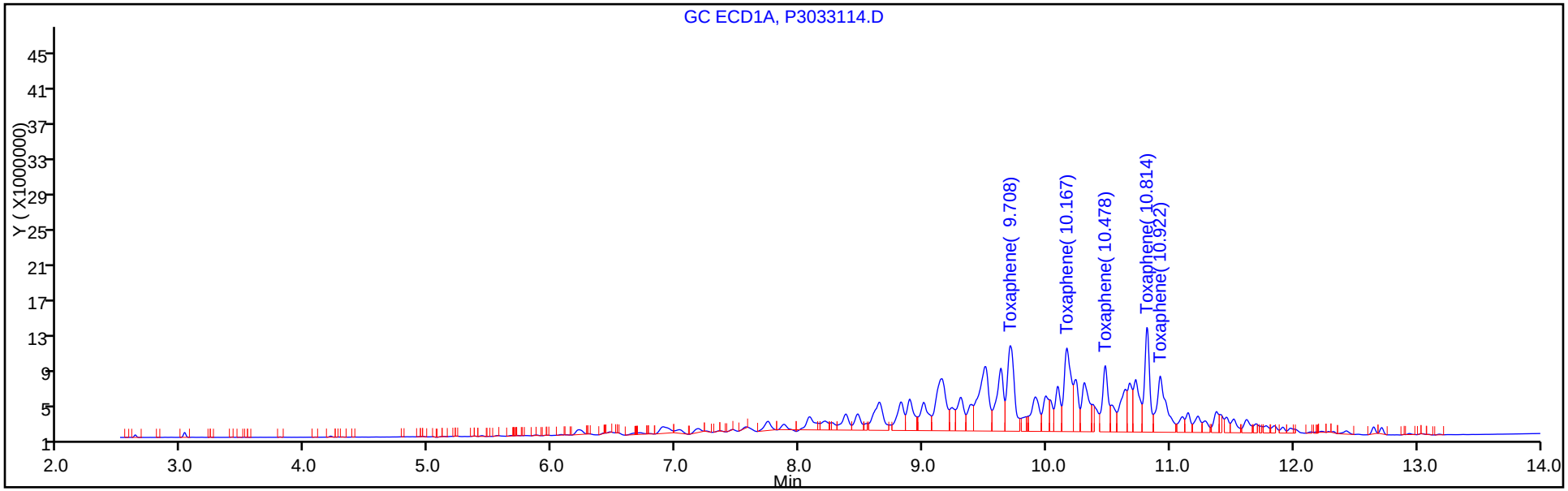
Report Date: 01-Apr-2015 08:57:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

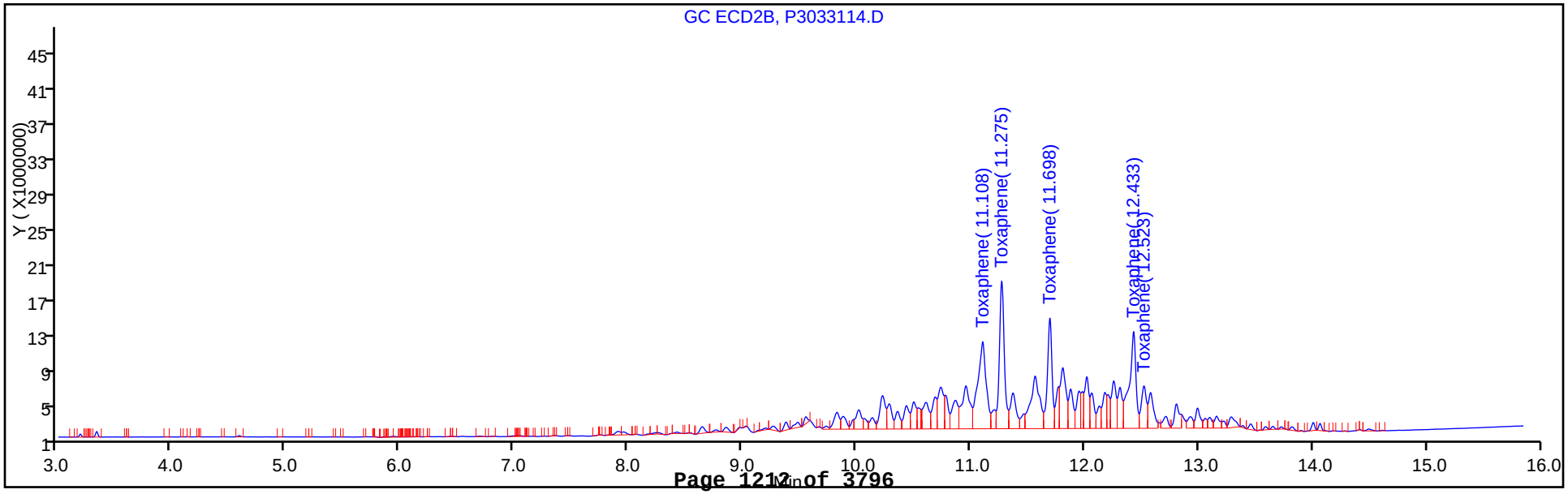
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date:	31-Mar-2015 16:24:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:28 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date: 31-Mar-2015 16:24:32 Instrument ID: A2HP3

Lims ID: STD TOX3

Client ID:

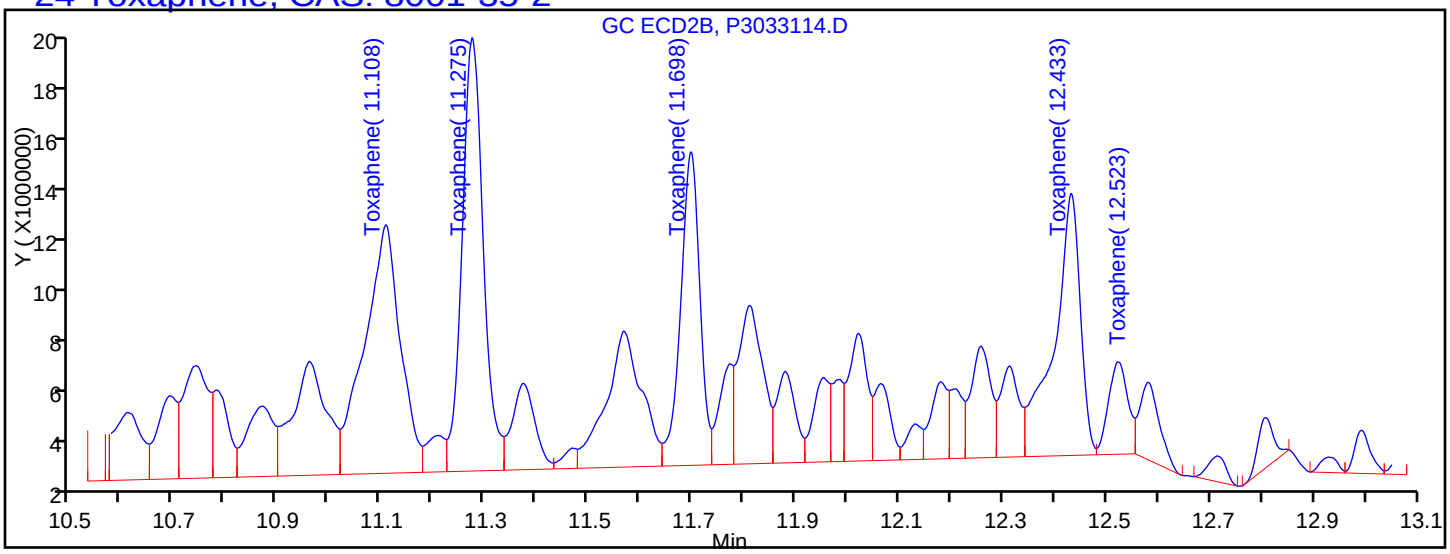
Operator ID: 430893 ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

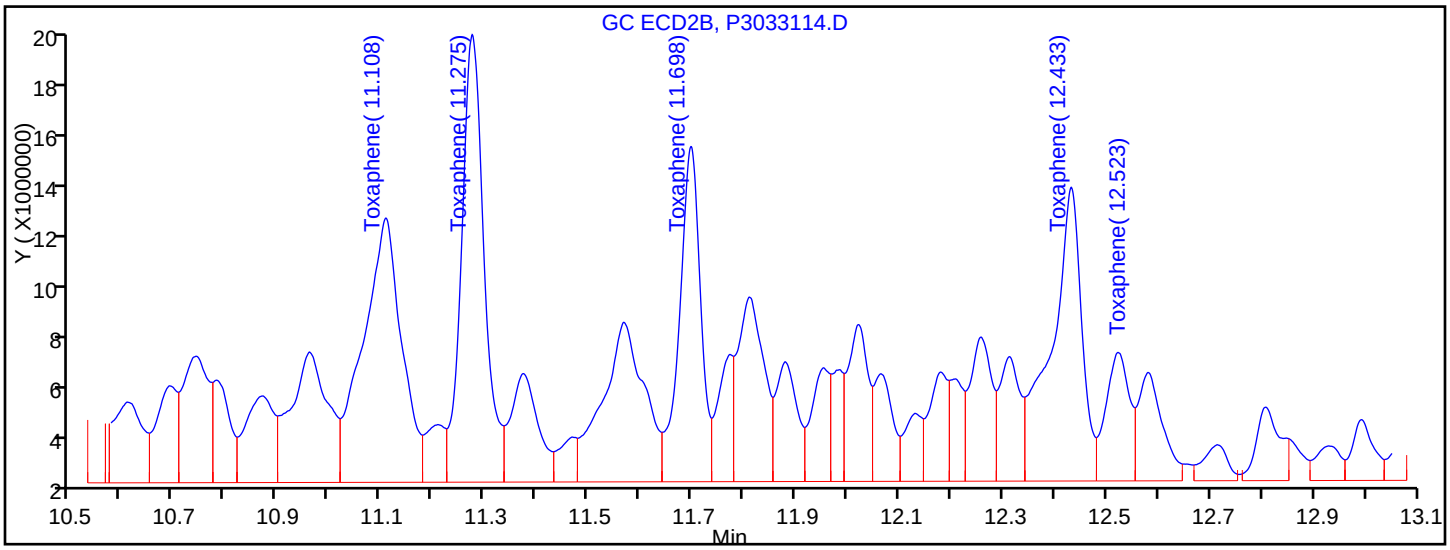
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.108	Response = 43949021	M
RT = 11.275	Response = 45453309	M
RT = 11.698	Response = 29769723	M
RT = 12.433	Response = 33995590	M
RT = 12.523	Response = 8947813	M



Manual Integration Results

RT = 11.108	Response = 51233967	M
RT = 11.275	Response = 51076818	M
RT = 11.698	Response = 35702538	M
RT = 12.433	Response = 45291737	M
RT = 12.523	Response = 15291056	M

Reviewer: matthewsb, 01-Apr-2015 08:32:04

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D
Lims ID: STD TOX4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 16:47:48 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-015
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:29 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.708	0.001	82385228	2000.0	2177.6	M
1	10.167	10.167	0.000	78084498	2000.0	2130.9	M
1	10.478	10.478	0.000	50661085	2000.0	2169.2	M
1	10.815	10.814	0.001	70679302	2000.0	2130.4	M
1	10.924	10.922	0.002	72870864	2000.0	2253.9	M
		Average of Peak Amounts =				2172.4	
2	11.108	11.108	0.000	110160431	2000.0	2125.7	M
2	11.275	11.275	0.000	107527323	2000.0	2109.8	M
2	11.698	11.698	0.000	76152937	2000.0	2136.6	M
2	12.431	12.433	-0.002	97042833	2000.0	2126.8	M
2	12.524	12.523	0.001	34039899	2000.0	2186.3	M
		Average of Peak Amounts =				2137.1	
						RPD = 1.64	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 200.00 Units: uL

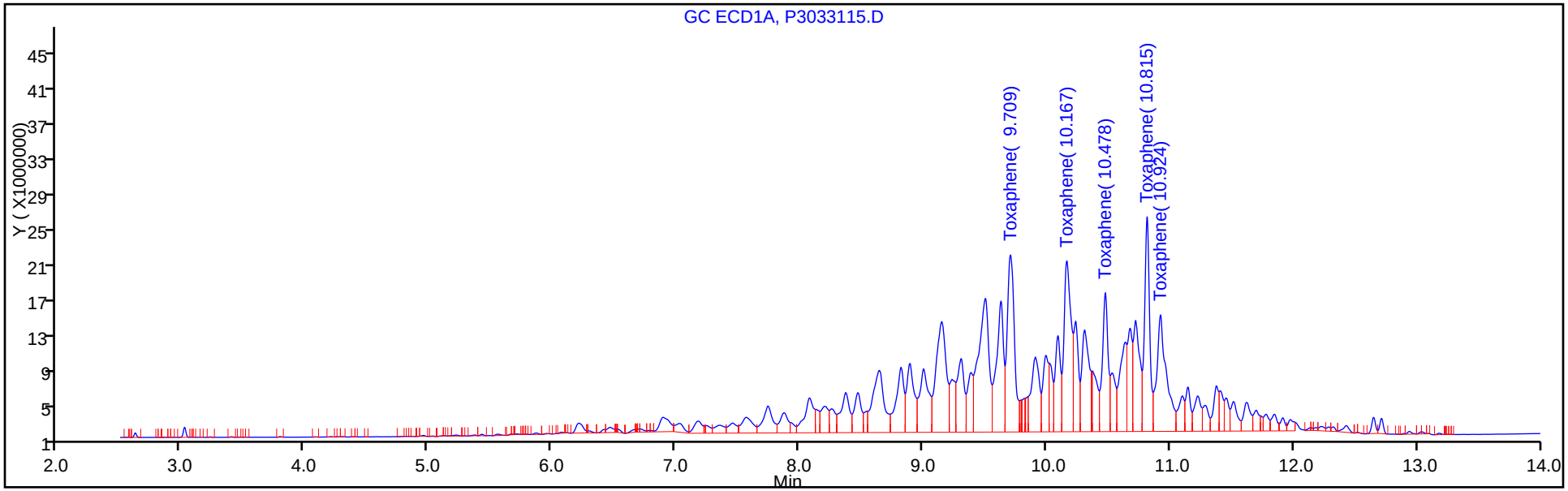
Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

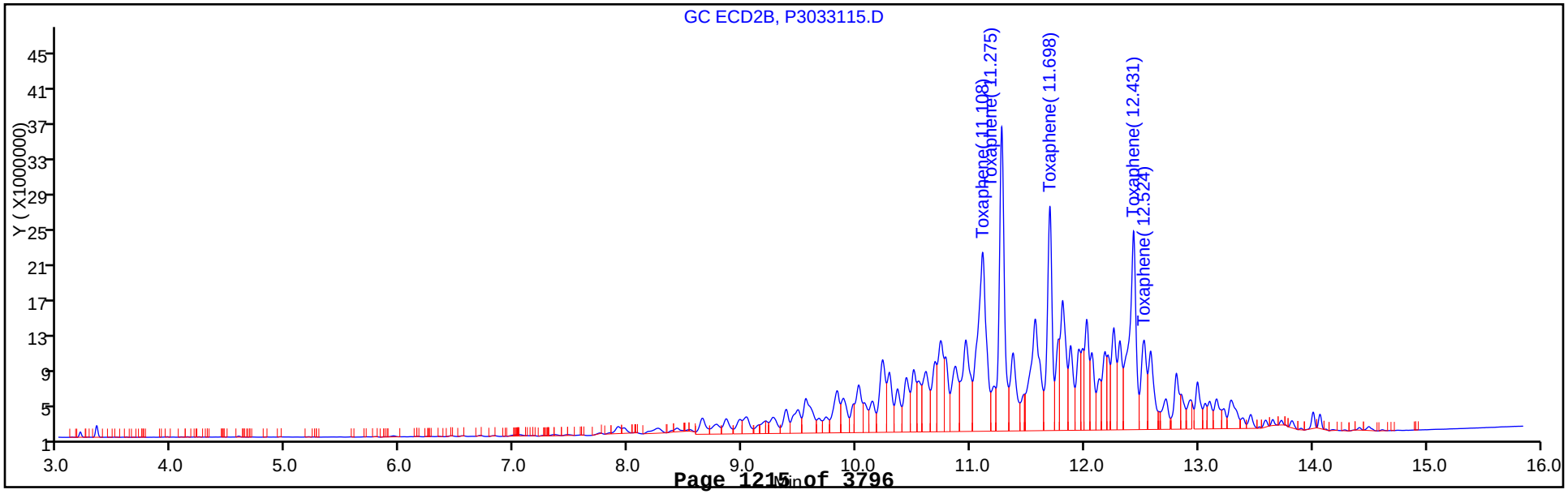
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D

Injection Date:	31-Mar-2015 16:47:48	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX4			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



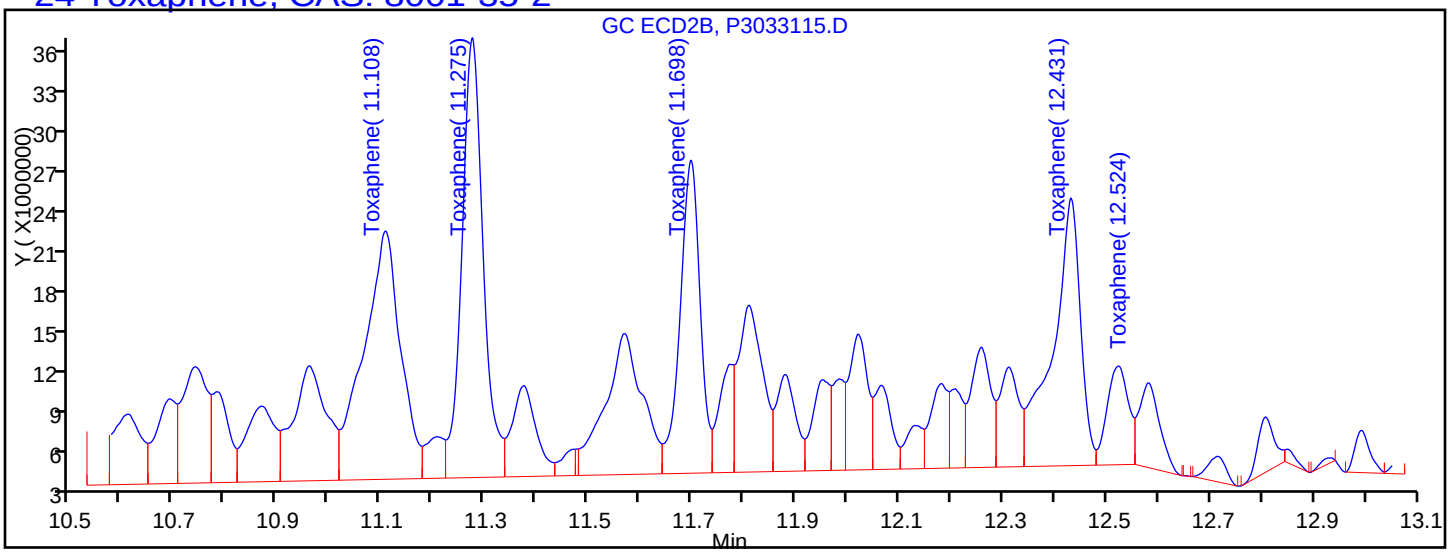
Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D

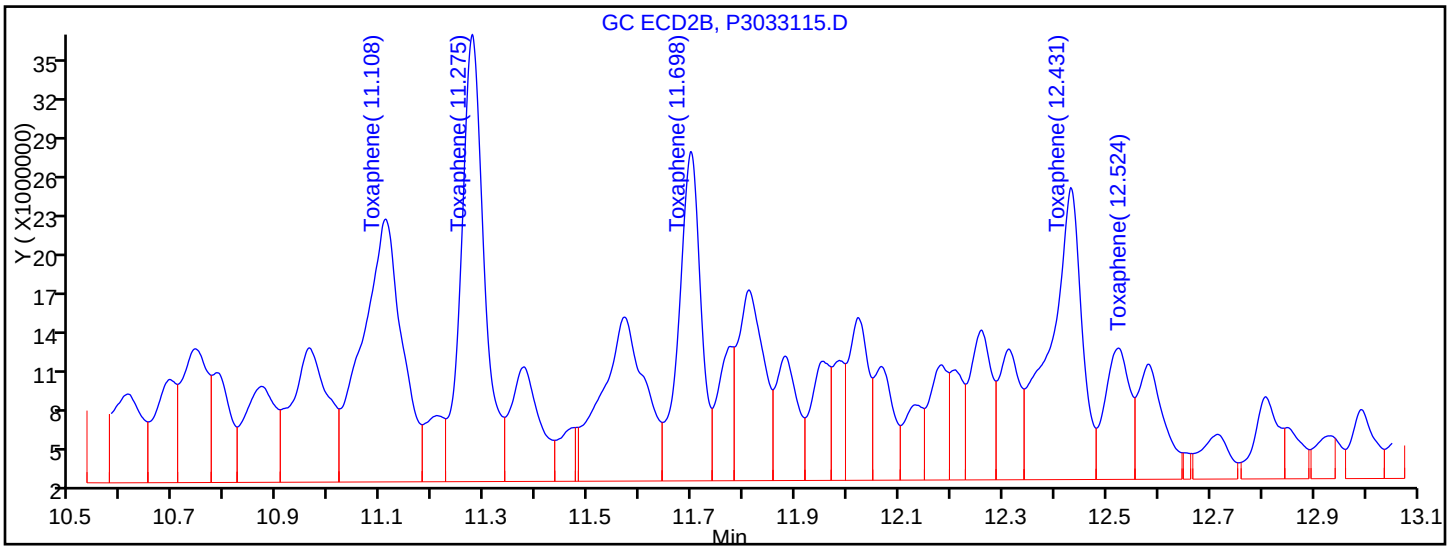
Injection Date:	31-Mar-2015 16:47:48	Instrument ID:	A2HP3
Lims ID:	STD TOX4		
Client ID:			
Operator ID:	430893	ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL
Column:		Detector	GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.108	Response = 91132966	M
RT = 11.275	Response = 93243415	M
RT = 11.698	Response = 62581328	M
RT = 12.431	Response = 73763797	M
RT = 12.524	Response = 21194669	M



Manual Integration Results

RT = 11.108	Response = 110160431	M
RT = 11.275	Response = 107527323	M
RT = 11.698	Response = 76152937	M
RT = 12.431	Response = 97042833	M
RT = 12.524	Response = 34039899	M

Reviewer: matthewsb, 01-Apr-2015 08:32:22

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D
Lims ID: STD TOX5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 17:11:00 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-016
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.708	-0.001	201242128	5000.0	5319.3	M
1	10.165	10.167	-0.002	188116864	5000.0	5133.6	M
1	10.476	10.478	-0.002	132101364	5000.0	5656.3	M
1	10.814	10.814	0.000	172790007	5000.0	5208.3	M
1	10.923	10.922	0.001	187835772	5000.0	5809.9	M
		Average of Peak Amounts =				5425.5	
2	11.109	11.108	0.001	272057035	5000.0	5249.8	M
2	11.274	11.275	-0.001	263525388	5000.0	5170.8	M
2	11.699	11.698	0.001	188891703	5000.0	5299.8	M
2	12.433	12.433	0.000	240683474	5000.0	5274.8	M
2	12.524	12.523	0.001	84924334	5000.0	5454.4	M
		Average of Peak Amounts =				5289.9	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 500.00 Units: uL

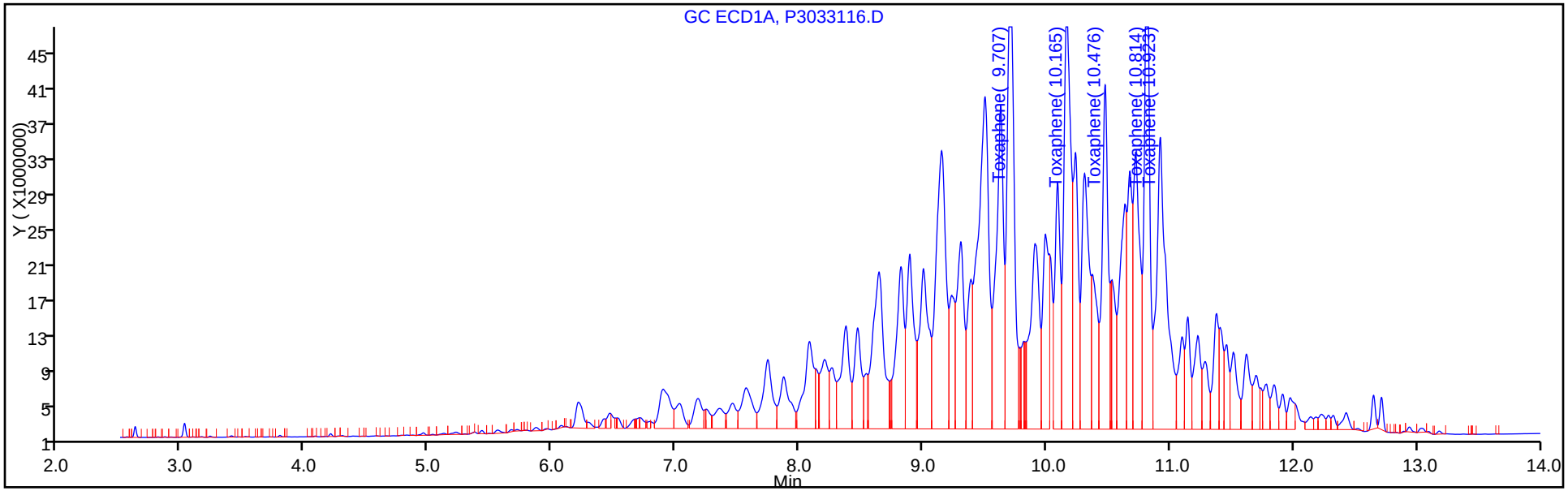
Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

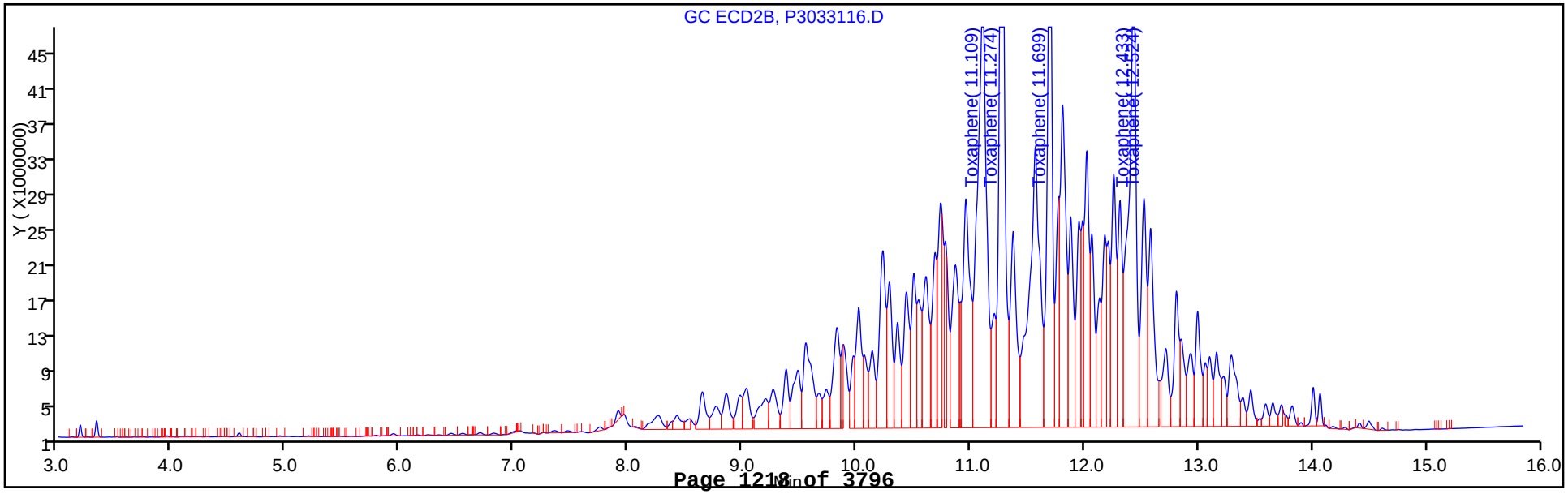
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Injection Date:	31-Mar-2015 17:11:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX5			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Injection Date: 31-Mar-2015 17:11:00 Instrument ID: A2HP3

Lims ID: STD TOX5

Client ID:

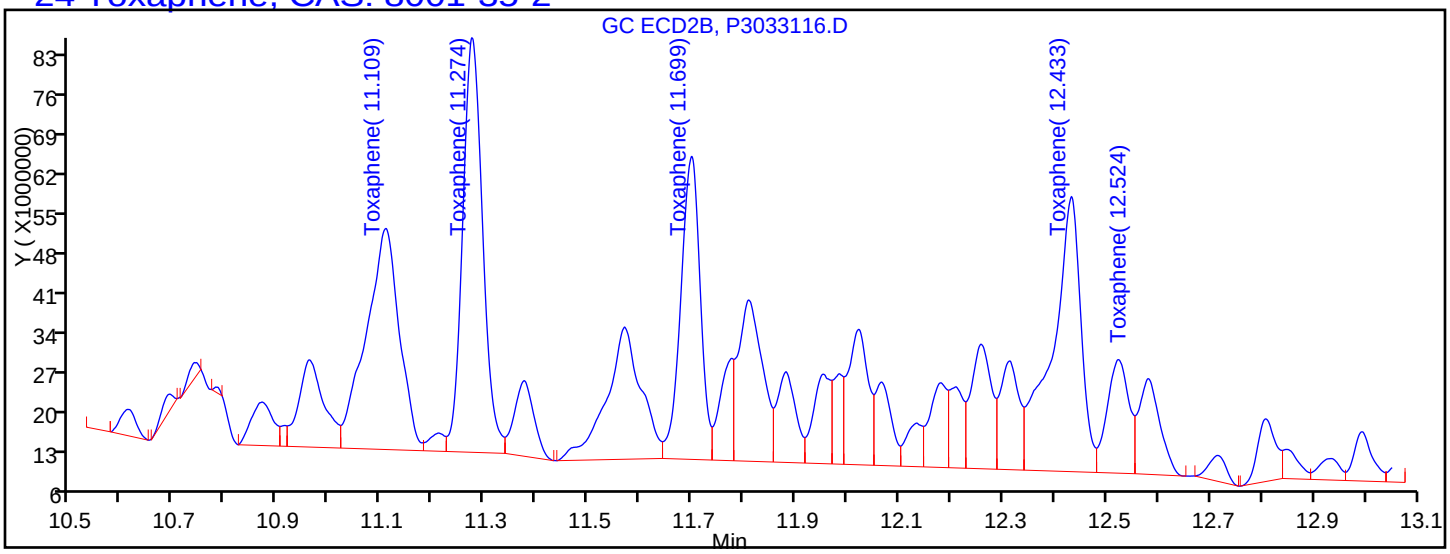
Operator ID: 430893 ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

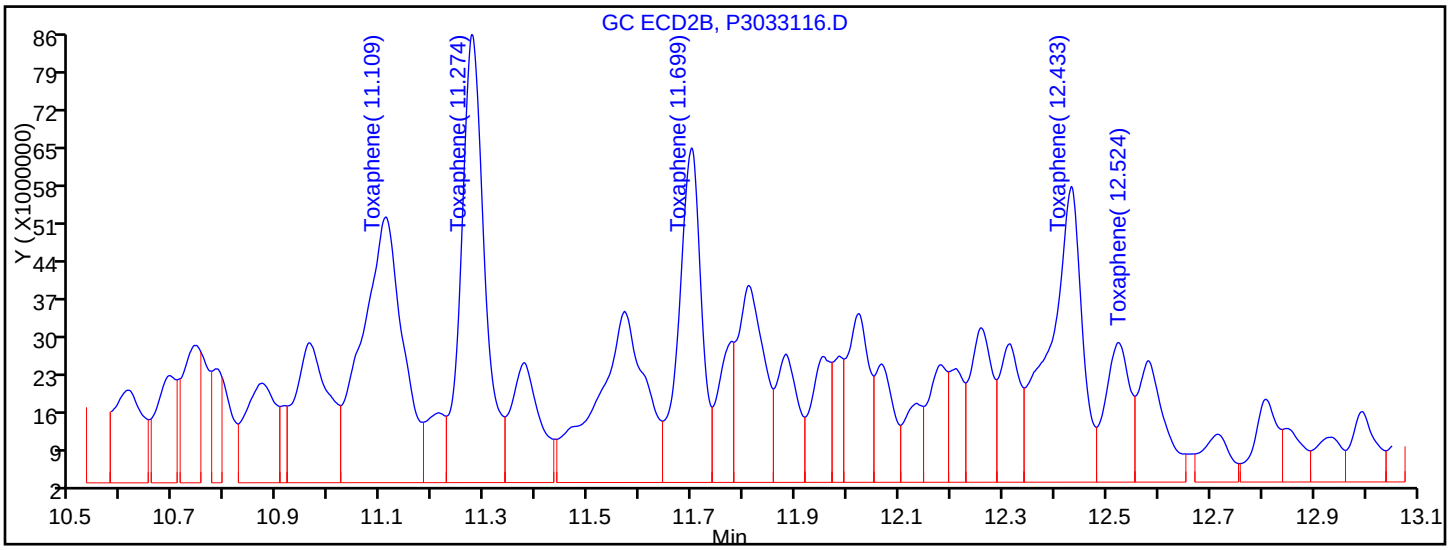
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.109	Response = 175653010	M
RT = 11.274	Response = 198970921	M
RT = 11.699	Response = 141437787	M
RT = 12.433	Response = 189724211	M
RT = 12.524	Response = 59374174	M



Manual Integration Results

RT = 11.109	Response = 272057035	M
RT = 11.274	Response = 263525388	M
RT = 11.699	Response = 188891703	M
RT = 12.433	Response = 240683474	M
RT = 12.524	Response = 84924334	M

Reviewer: matthewsb, 01-Apr-2015 08:32:36

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 17:57 Calibration End Date: 03/31/2015 19:26 Calibration ID: 27636

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/18	P3033118.D
Level 2	STD 240-174448/19	P3033119.D
Level 3	STD 240-174448/20	P3033120.D
Level 4	STD 240-174448/21	P3033121.D
Level 5	STD 240-174448/22	P3033122.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	5.232	5.233	5.235	5.229	5.230						5.203 - 5.263	5.232
Chlordane (technical) Peak 2	6.139	6.142	6.144	6.136	6.137						6.110 - 6.170	6.140
Chlordane (technical) Peak 3	7.458	7.458	7.462	7.451	7.452						7.428 - 7.488	7.456
Chlordane (technical) Peak 4	7.788	7.791	7.795	7.786	7.785						7.761 - 7.821	7.789

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 17:57 Calibration End Date: 03/31/2015 19:26 Calibration ID: 27636

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/18	P3033118.D
Level 2	STD 240-174448/19	P3033119.D
Level 3	STD 240-174448/20	P3033120.D
Level 4	STD 240-174448/21	P3033121.D
Level 5	STD 240-174448/22	P3033122.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	46540 42258	42995	42292	39849	Ave		42786.7766				5.6		20.0			
Chlordane (technical) Peak 2	56461 45427	51771	48455	44424	Ave		49307.6530				10.0		20.0			
Chlordane (technical) Peak 3	172483 167807	168046	166244	159465	Ave		166809.124				2.8		20.0			
Chlordane (technical) Peak 4	259055 261270	267732	262831	249534	Ave		260084.290				2.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 17:57 Calibration End Date: 03/31/2015 19:26 Calibration ID: 27636

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/18	P3033118.D
Level 2	STD 240-174448/19	P3033119.D
Level 3	STD 240-174448/20	P3033120.D
Level 4	STD 240-174448/21	P3033121.D
Level 5	STD 240-174448/22	P3033122.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Ave	930793	2149746	4229157	7969895	21129134	20.0	50.0	100	200	500
Chlordane (technical) Peak 2	Ave	1129217	2588555	4845517	8884757	22713680	20.0	50.0	100	200	500
Chlordane (technical) Peak 3	Ave	3449664	8402297	16624397	31893060	83903606	20.0	50.0	100	200	500
Chlordane (technical) Peak 4	Ave	5181094	13386596	26283082	49906780	130635056	20.0	50.0	100	200	500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033118.D
Lims ID: STD TC1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 17:57:01 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-018
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:42 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:44:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							M
1	5.232	5.233	-0.001	930793	20.0	21.8	
1	6.139	6.140	-0.001	1129217	20.0	22.9	
1	7.458	7.458	0.000	3449664	20.0	20.7	
1	7.788	7.791	-0.003	5181094	20.0	19.9	
		Average of Peak Amounts =				21.3	
2	6.424	6.427	-0.003	869108	20.0	17.8	M
2	8.064	8.065	-0.001	1473799	20.0	25.5	
2	9.378	9.379	-0.001	3650961	20.0	20.6	
2	9.673	9.675	-0.002	3279825	20.0	20.7	
		Average of Peak Amounts =				21.1	
					RPD =	0.82	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

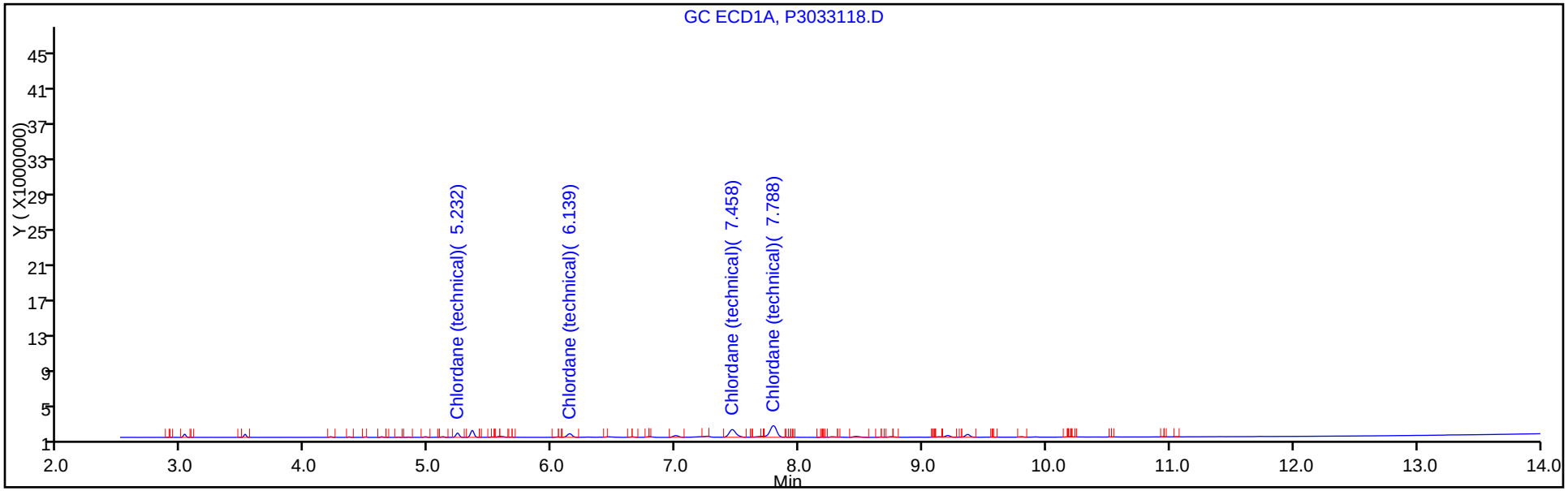
Report Date: 01-Apr-2015 08:57:43 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

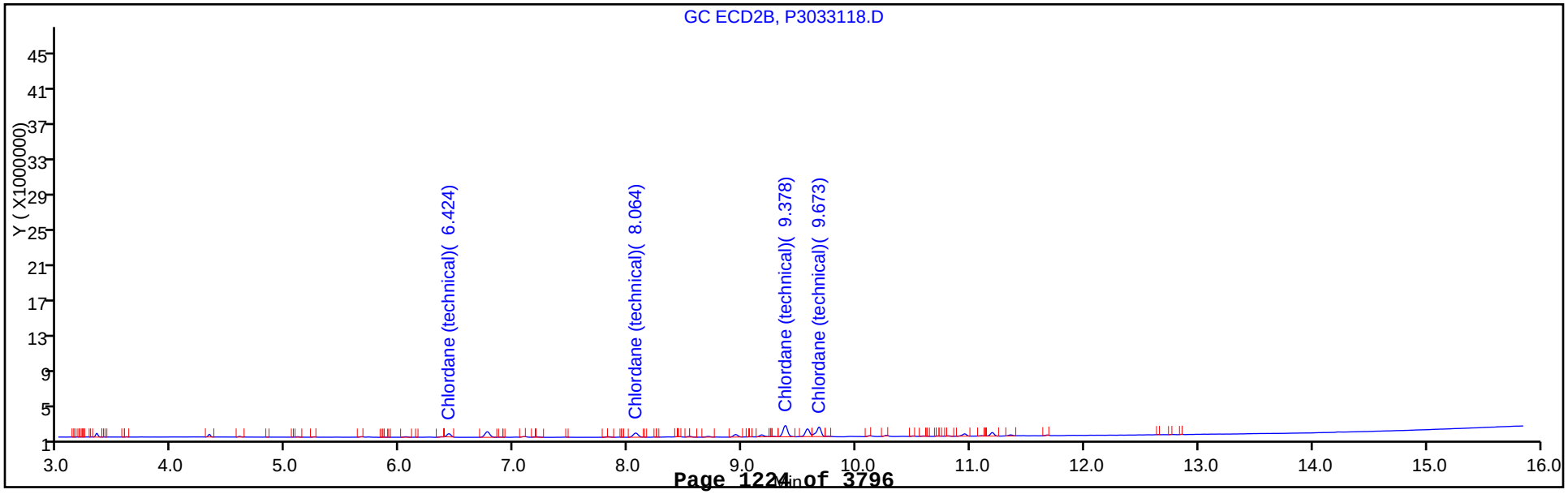
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033118.D

Injection Date:	31-Mar-2015 17:57:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033119.D
Lims ID: STD TC2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 18:19:34 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-019
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:44 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.233	5.233	0.000	2149746	50.0	50.2	
1	6.142	6.140	0.002	2588555	50.0	52.5	
1	7.458	7.458	0.000	8402297	50.0	50.4	
1	7.791	7.791	0.000	13386596	50.0	51.5	
		Average of Peak Amounts =				51.1	
2	6.428	6.427	0.001	2633999	50.0	53.8	
2	8.067	8.065	0.002	3087990	50.0	53.3	
2	9.380	9.379	0.001	8660989	50.0	48.9	
2	9.675	9.675	0.000	7664268	50.0	48.5	
		Average of Peak Amounts =				51.1	
						RPD = 0.03	

Reagents:

SGPESTTCST_00016 Amount Added: 50.00 Units: uL

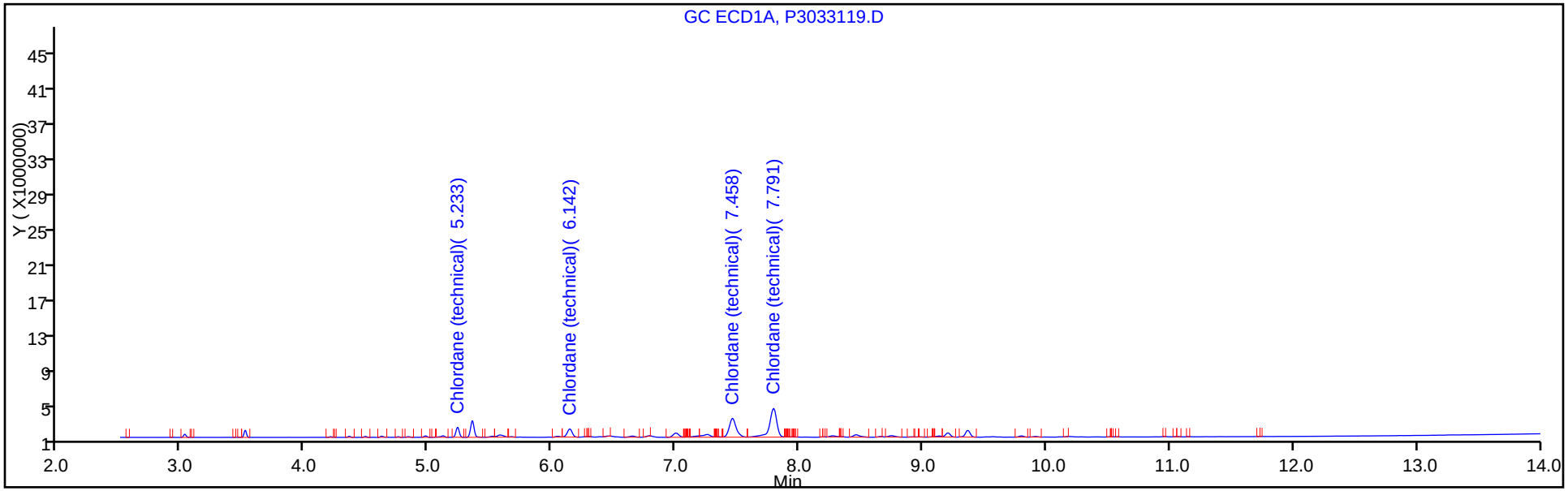
Report Date: 01-Apr-2015 08:57:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

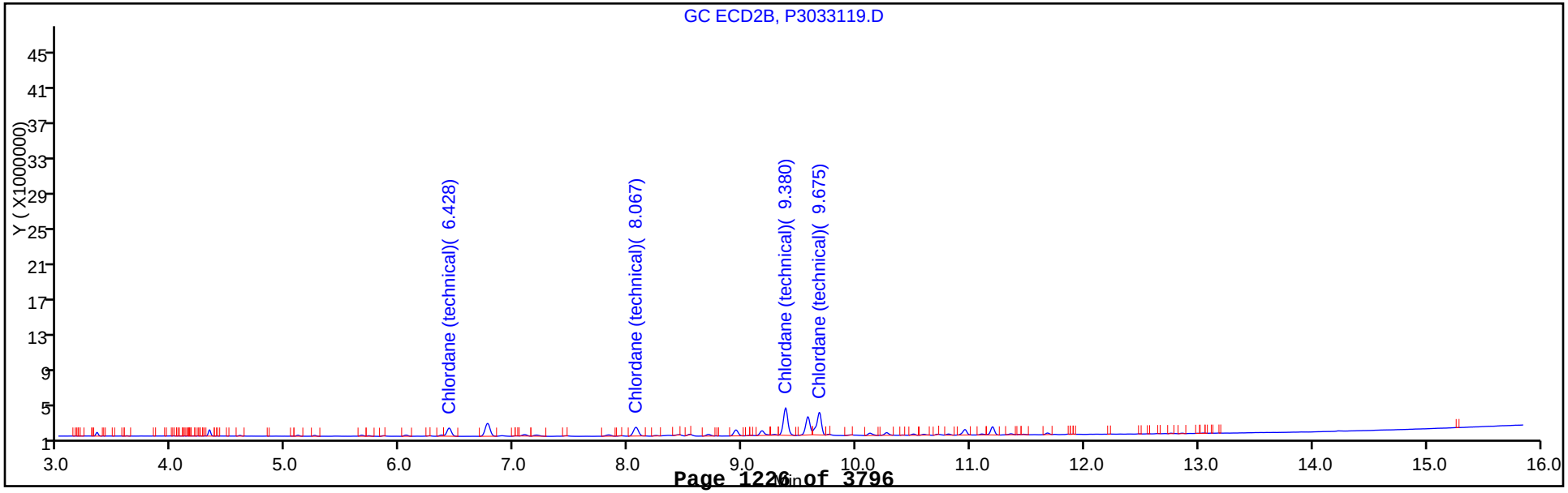
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033119.D

Injection Date:	31-Mar-2015 18:19:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033120.D
Lims ID: STD TC3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 18:42:40 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-020
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:47 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.235	5.235	0.000	4229157	100.0	98.8	
1	6.144	6.144	0.000	4845517	100.0	98.3	
1	7.462	7.462	0.000	16624397	100.0	99.7	
1	7.795	7.795	0.000	26283082	100.0	101.1	
		Average of Peak Amounts =				99.5	
2	6.429	6.429	0.000	4997586	100.0	102.1	
2	8.067	8.067	0.000	5598993	100.0	96.7	
2	9.381	9.381	0.000	17601105	100.0	99.4	
2	9.676	9.676	0.000	15976211	100.0	101.0	
		Average of Peak Amounts =				99.8	
						RPD = 0.35	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

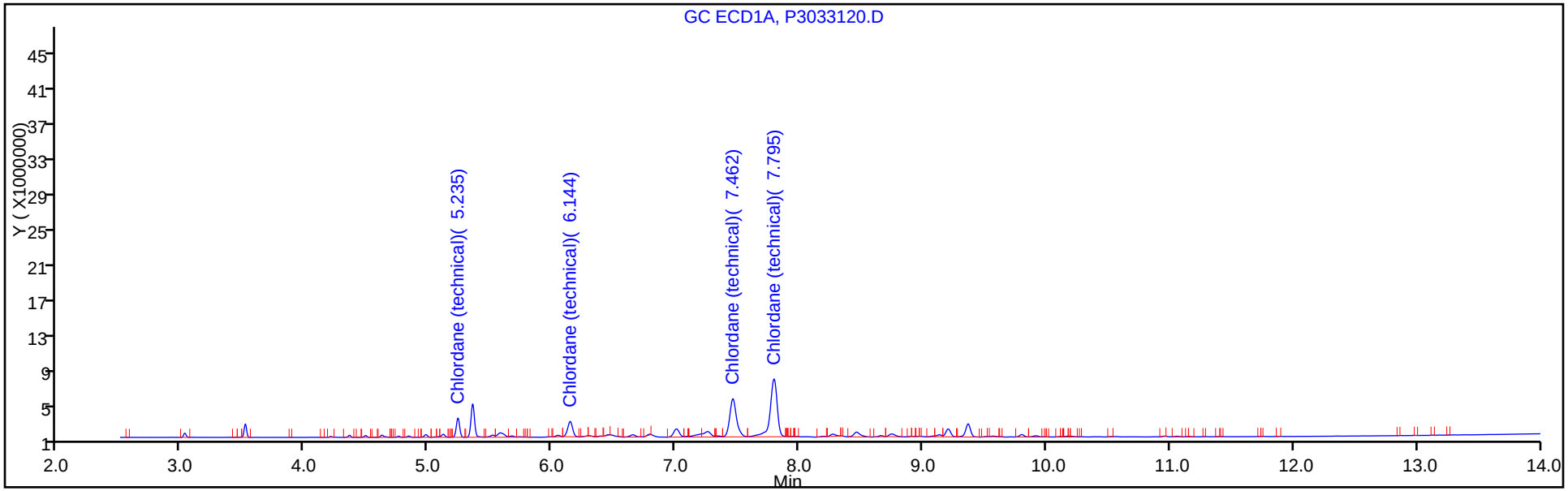
Report Date: 01-Apr-2015 08:57:48 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

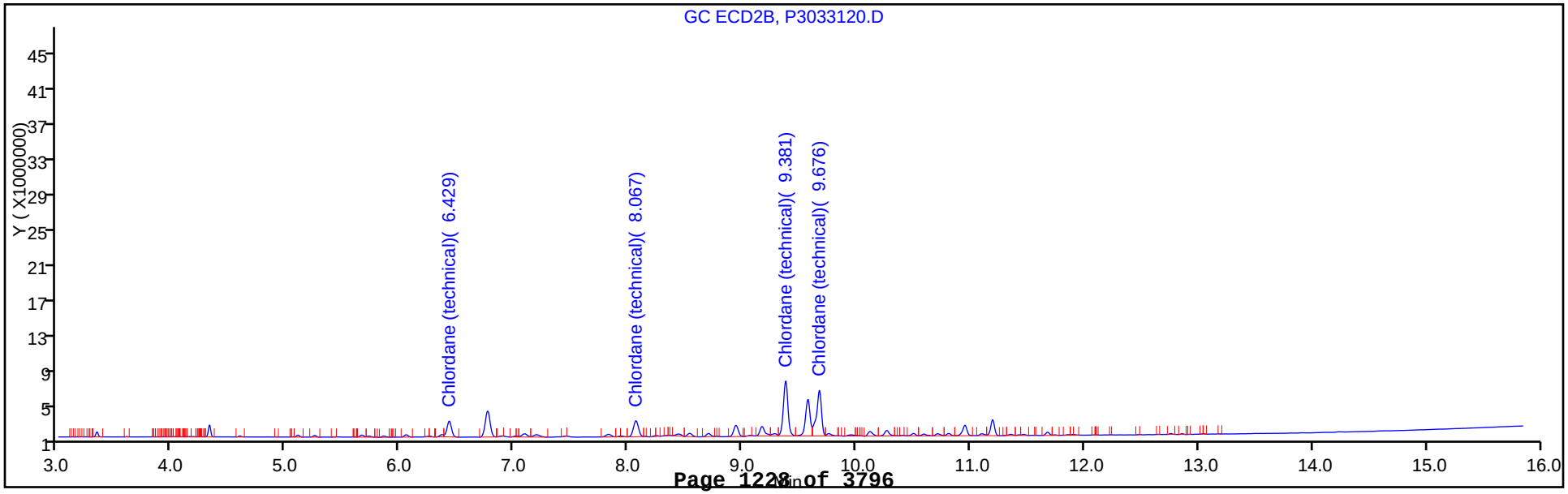
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033120.D

Injection Date:	31-Mar-2015 18:42:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033121.D
Lims ID: STD TC4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 19:04:22 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-021
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:50 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.229	5.235	-0.006	7969895	200.0	186.3	
1	6.136	6.144	-0.008	8884757	200.0	180.2	
1	7.451	7.462	-0.011	31893060	200.0	191.2	
1	7.786	7.795	-0.009	49906780	200.0	191.9	
		Average of Peak Amounts =				187.4	
2	6.428	6.429	-0.001	9765946	200.0	199.5	
2	8.066	8.067	-0.001	9931634	200.0	171.5	
2	9.379	9.381	-0.002	34605776	200.0	195.4	
2	9.675	9.676	-0.001	30848560	200.0	195.0	
		Average of Peak Amounts =				190.4	
						RPD = 1.58	

Reagents:

SGPESTTCST_00016 Amount Added: 200.00 Units: uL

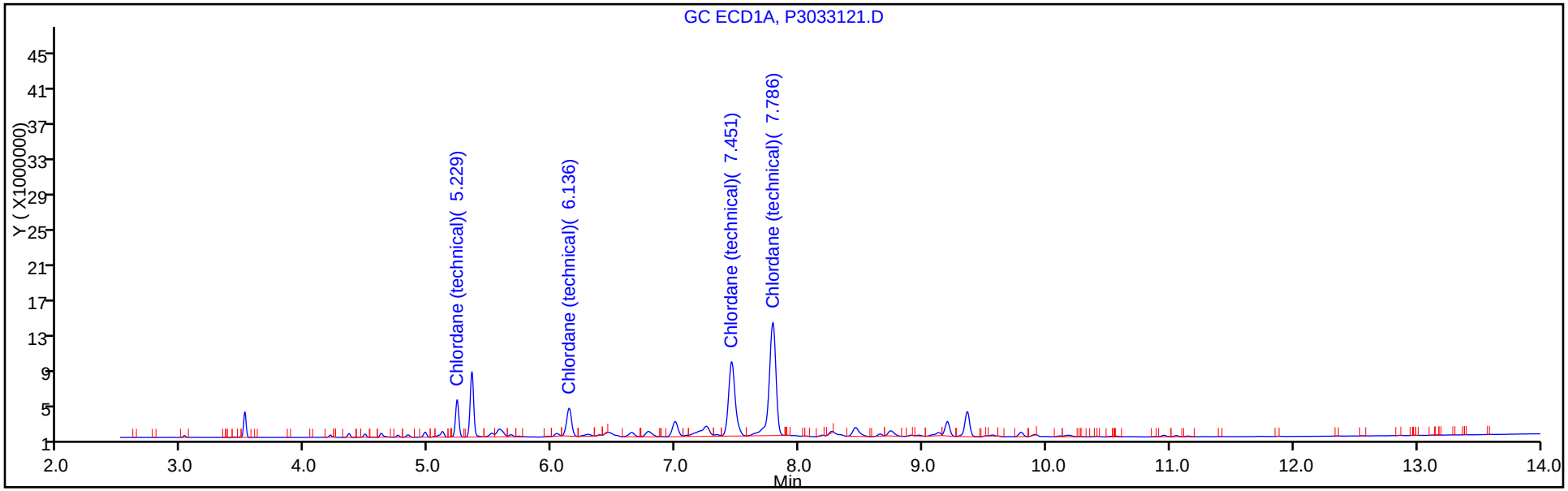
Report Date: 01-Apr-2015 08:57:50 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

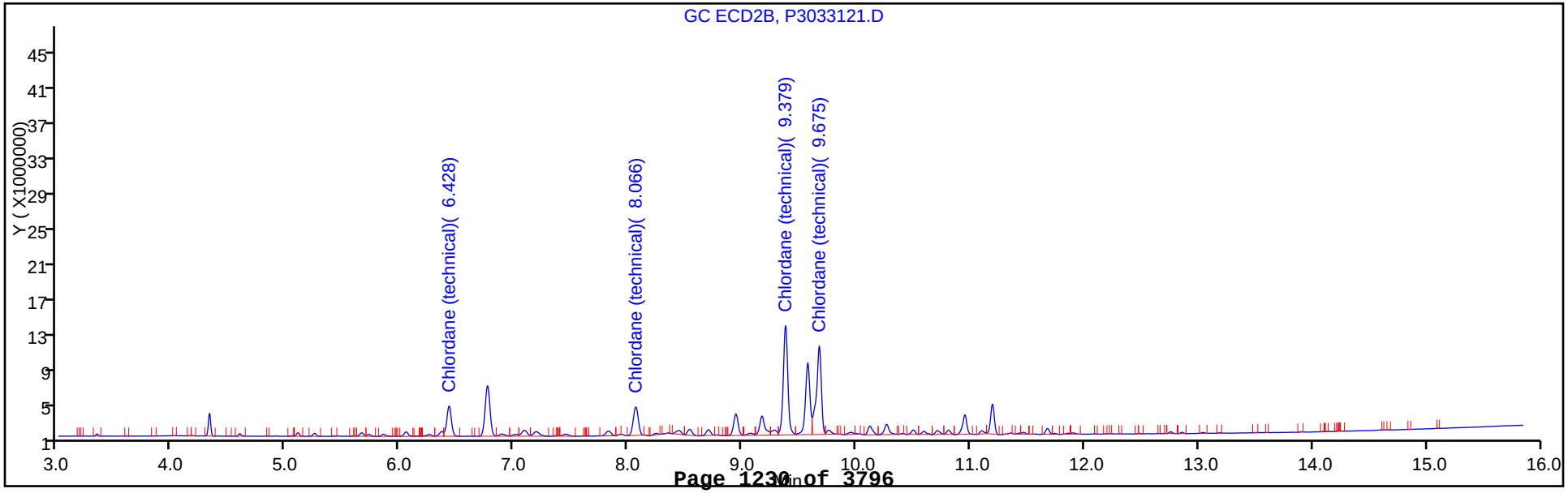
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033121.D

Injection Date:	31-Mar-2015 19:04:22	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D
Lims ID: STD TC5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 19:26:07 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-022
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:52 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:45:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.230	5.235	-0.005	21129134	500.0	493.8	
1	6.137	6.144	-0.007	22713680	500.0	460.7	
1	7.452	7.462	-0.010	83903606	500.0	503.0	
1	7.785	7.795	-0.010	130635056	500.0	502.3	
		Average of Peak Amounts =				489.9	
2	6.428	6.429	-0.001	24908769	500.0	508.8	
2	8.065	8.067	-0.002	24208203	500.0	418.1	
2	9.380	9.381	-0.001	90239885	500.0	509.7	
2	9.676	9.676	0.000	79772766	500.0	504.4	
		Average of Peak Amounts =				485.2	
						RPD = 0.96	

Reagents:

SGPESTTCST_00016 Amount Added: 500.00 Units: uL

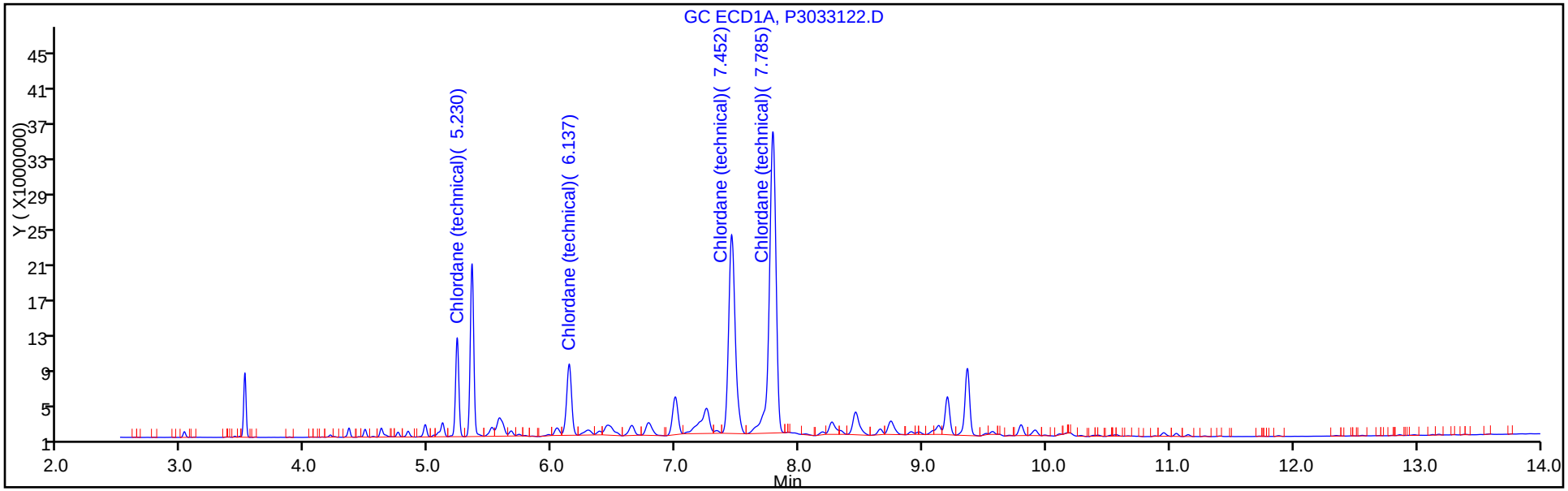
Report Date: 01-Apr-2015 08:57:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

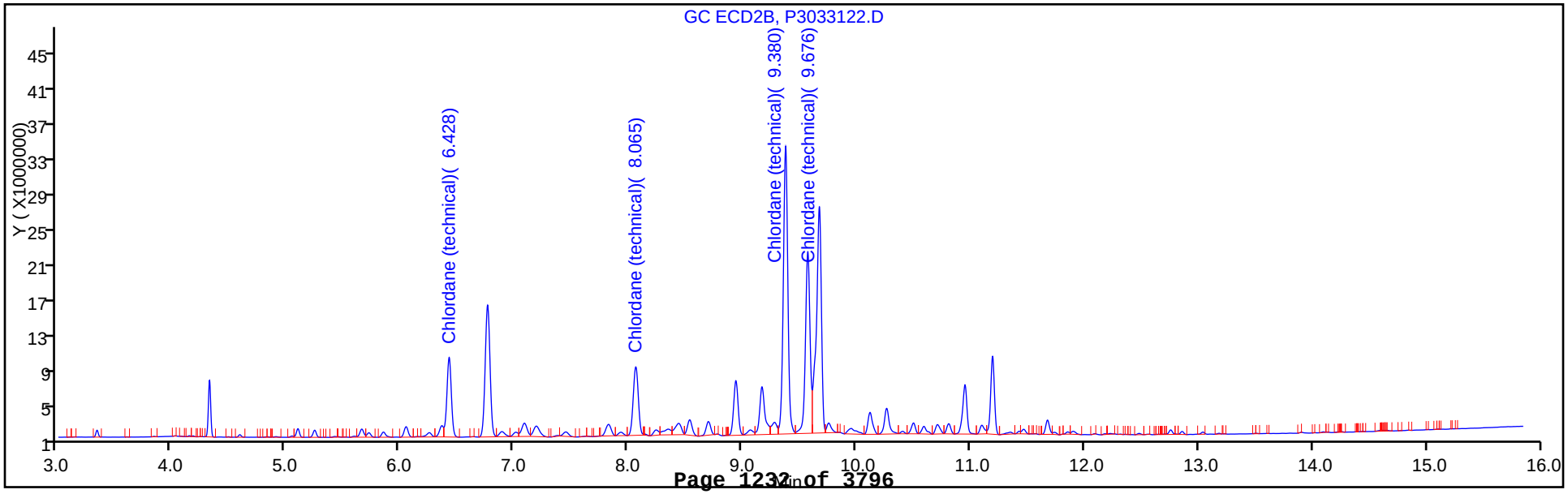
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Injection Date:	31-Mar-2015 19:26:07	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 17:57 Calibration End Date: 03/31/2015 19:26 Calibration ID: 27637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/18	P3033118.D
Level 2	STD 240-174448/19	P3033119.D
Level 3	STD 240-174448/20	P3033120.D
Level 4	STD 240-174448/21	P3033121.D
Level 5	STD 240-174448/22	P3033122.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	6.424	6.428	6.429	6.428	6.428						6.397 - 6.457	6.427
Chlordane (technical) Peak 2	8.064	8.067	8.067	8.066	8.065						8.035 - 8.095	8.066
Chlordane (technical) Peak 3	9.378	9.380	9.381	9.379	9.380						9.349 - 9.409	9.380
Chlordane (technical) Peak 4	9.673	9.675	9.676	9.675	9.676						9.645 - 9.705	9.675

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 17:57 Calibration End Date: 03/31/2015 19:26 Calibration ID: 27637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/18	P3033118.D
Level 2	STD 240-174448/19	P3033119.D
Level 3	STD 240-174448/20	P3033120.D
Level 4	STD 240-174448/21	P3033121.D
Level 5	STD 240-174448/22	P3033122.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	43455 49818	52680	49976	48830	Ave		48951.7016				6.9		20.0			
Chlordane (technical) Peak 2	73690 48416	61760	55990	49658	Ave		57902.8512				17.8		20.0			
Chlordane (technical) Peak 3	182548 180480	173220	176011	173029	Ave		177057.506				2.4		20.0			
Chlordane (technical) Peak 4	163991 159546	153285	159762	154243	Ave		158165.410				2.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 17:57 Calibration End Date: 03/31/2015 19:26 Calibration ID: 27637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/18	P3033118.D
Level 2	STD 240-174448/19	P3033119.D
Level 3	STD 240-174448/20	P3033120.D
Level 4	STD 240-174448/21	P3033121.D
Level 5	STD 240-174448/22	P3033122.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Ave	869108	2633999	4997586	9765946	24908769	20.0	50.0	100	200	500
Chlordane (technical) Peak 2	Ave	1473799	3087990	5598993	9931634	24208203	20.0	50.0	100	200	500
Chlordane (technical) Peak 3	Ave	3650961	8660989	17601105	34605776	90239885	20.0	50.0	100	200	500
Chlordane (technical) Peak 4	Ave	3279825	7664268	15976211	30848560	79772766	20.0	50.0	100	200	500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033118.D
Lims ID: STD TC1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 17:57:01 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-018
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:42 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:44:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							M
1	5.232	5.233	-0.001	930793	20.0	21.8	
1	6.139	6.140	-0.001	1129217	20.0	22.9	
1	7.458	7.458	0.000	3449664	20.0	20.7	
1	7.788	7.791	-0.003	5181094	20.0	19.9	
		Average of Peak Amounts =				21.3	
2	6.424	6.427	-0.003	869108	20.0	17.8	M
2	8.064	8.065	-0.001	1473799	20.0	25.5	
2	9.378	9.379	-0.001	3650961	20.0	20.6	
2	9.673	9.675	-0.002	3279825	20.0	20.7	
		Average of Peak Amounts =				21.1	
					RPD =	0.82	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

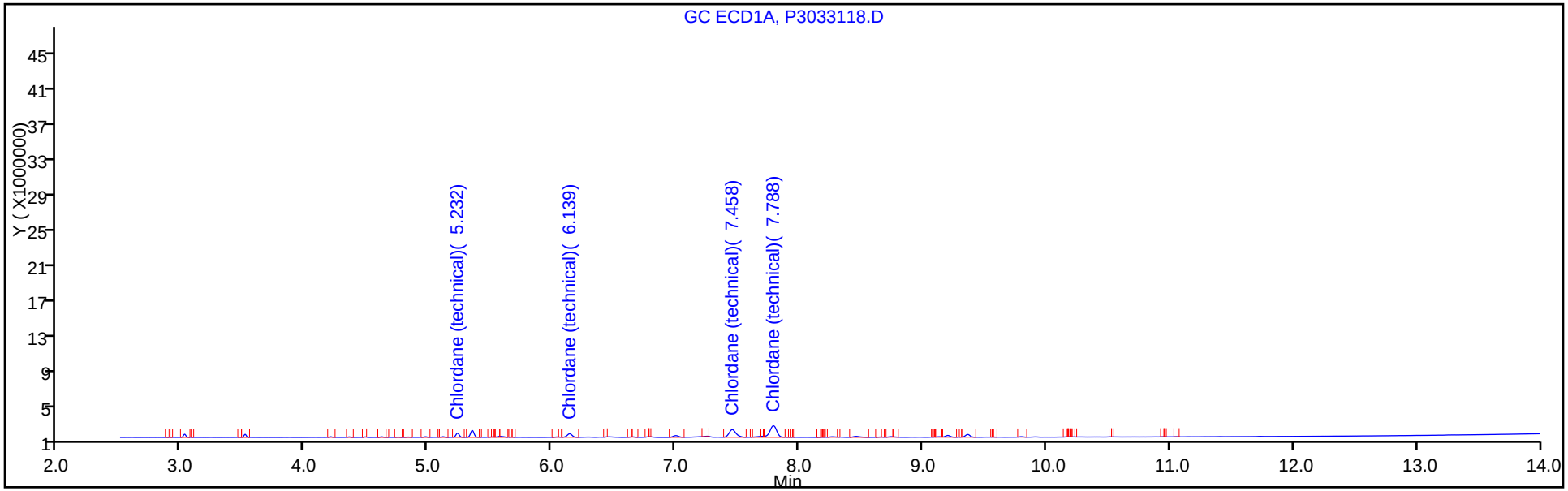
Report Date: 01-Apr-2015 08:57:43 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

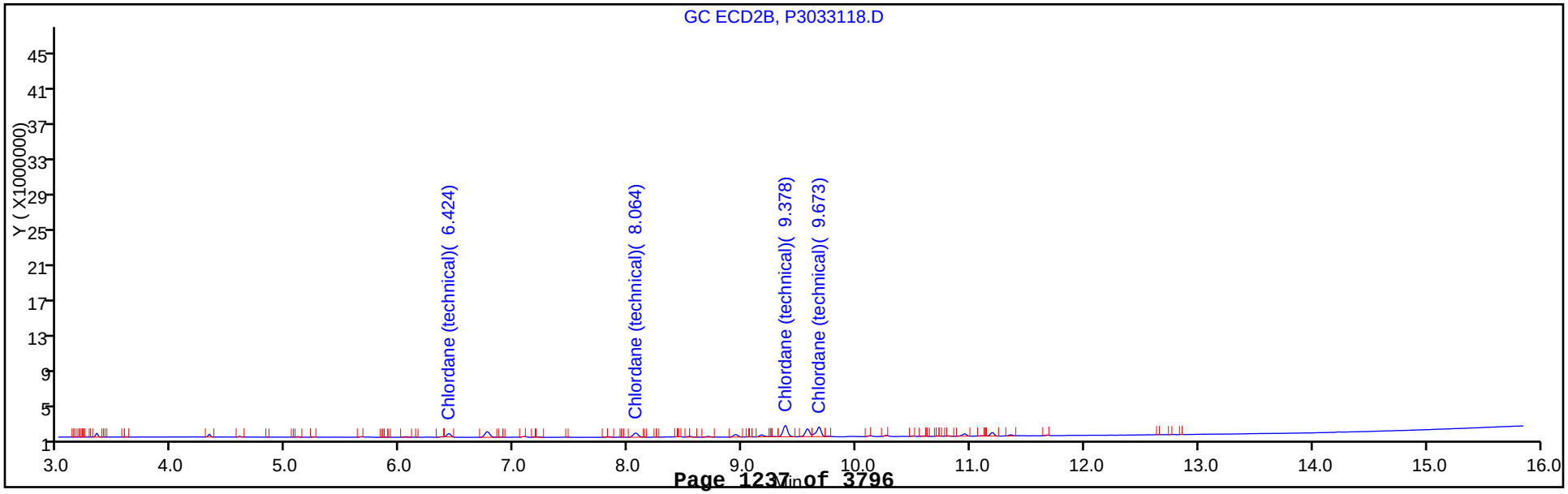
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033118.D

Injection Date:	31-Mar-2015 17:57:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:43 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033118.D

Injection Date: 31-Mar-2015 17:57:01 Instrument ID: A2HP3

Lims ID: STD TC1

Client ID:

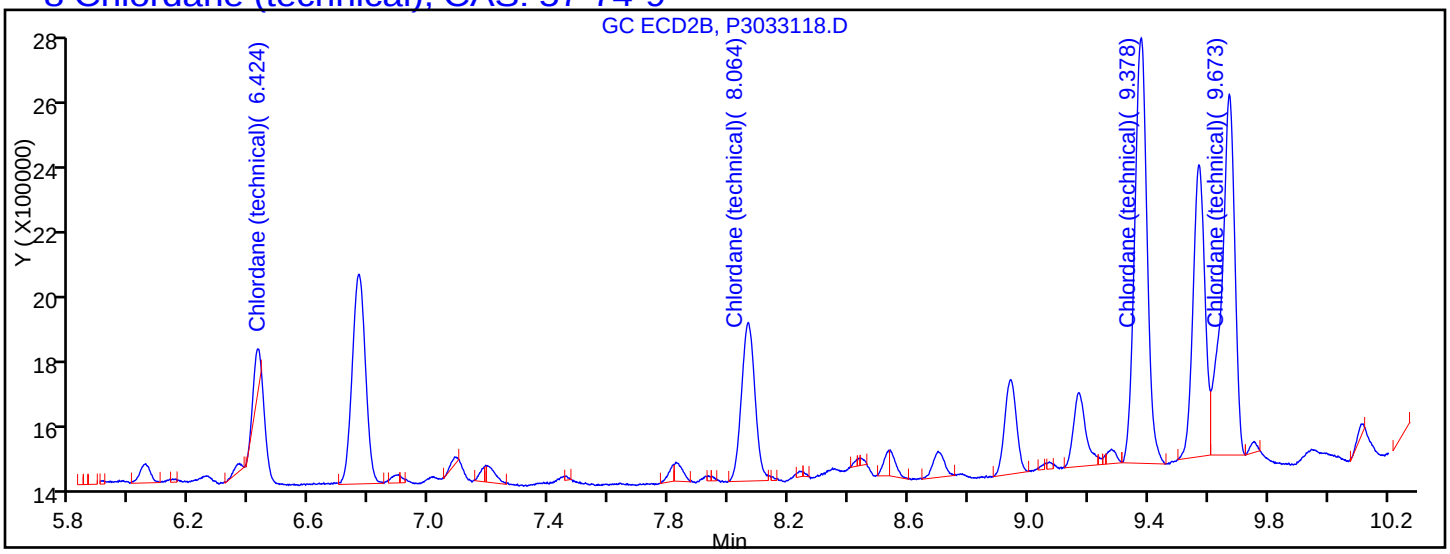
Operator ID: 430893 ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

Column: Detector GC ecd2b

8 Chlordane (technical), CAS: 57-74-9



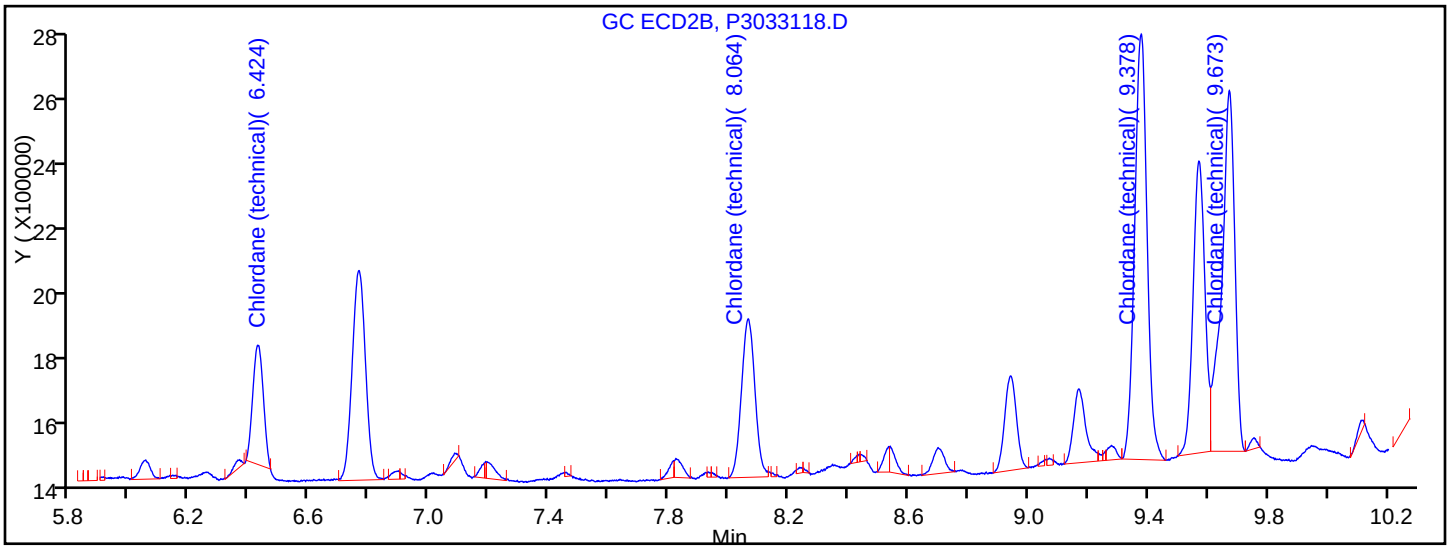
Processing Integration Results

RT = 6.424 Response = 210889 M

RT = 8.064 Response = 1473799

RT = 9.378 Response = 3650961

RT = 9.673 Response = 3279825



Manual Integration Results

RT = 6.424 Response = 869108 M

RT = 8.064 Response = 1473799

RT = 9.378 Response = 3650961

RT = 9.673 Response = 3279825

Reviewer: matthewsb, 01-Apr-2015 08:44:02

Audit Action: Manually Integrated

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033119.D
Lims ID: STD TC2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 18:19:34 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-019
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:44 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.233	5.233	0.000	2149746	50.0	50.2	
1	6.142	6.140	0.002	2588555	50.0	52.5	
1	7.458	7.458	0.000	8402297	50.0	50.4	
1	7.791	7.791	0.000	13386596	50.0	51.5	
		Average of Peak Amounts =				51.1	
2	6.428	6.427	0.001	2633999	50.0	53.8	
2	8.067	8.065	0.002	3087990	50.0	53.3	
2	9.380	9.379	0.001	8660989	50.0	48.9	
2	9.675	9.675	0.000	7664268	50.0	48.5	
		Average of Peak Amounts =				51.1	
						RPD = 0.03	

Reagents:

SGPESTTCST_00016 Amount Added: 50.00 Units: uL

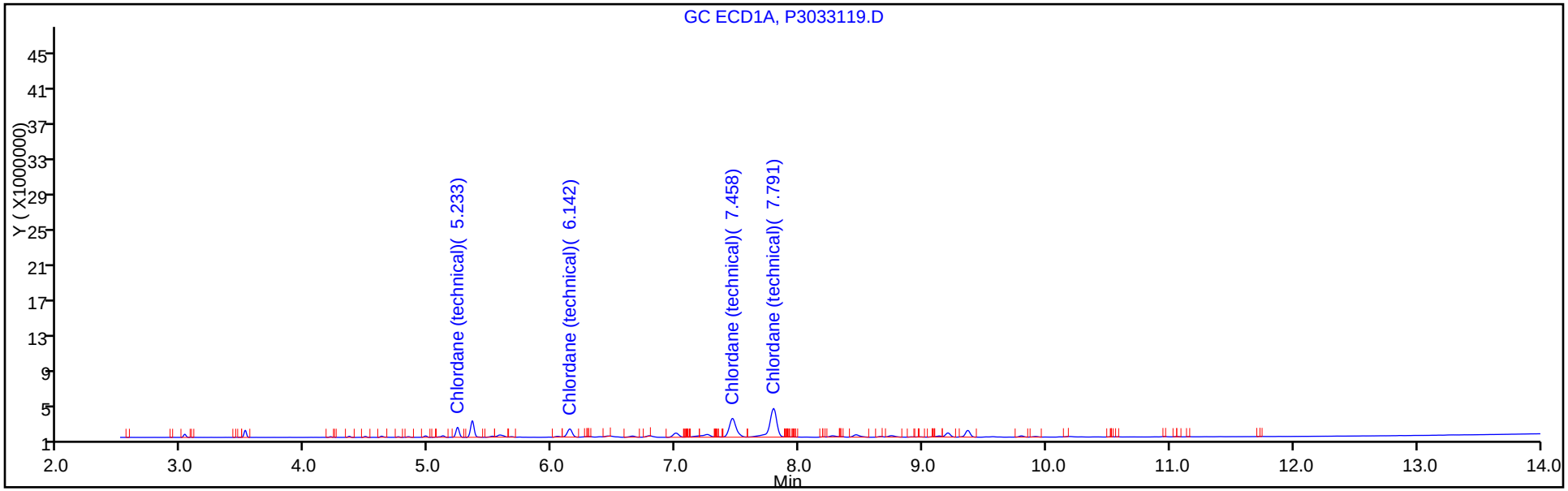
Report Date: 01-Apr-2015 08:57:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

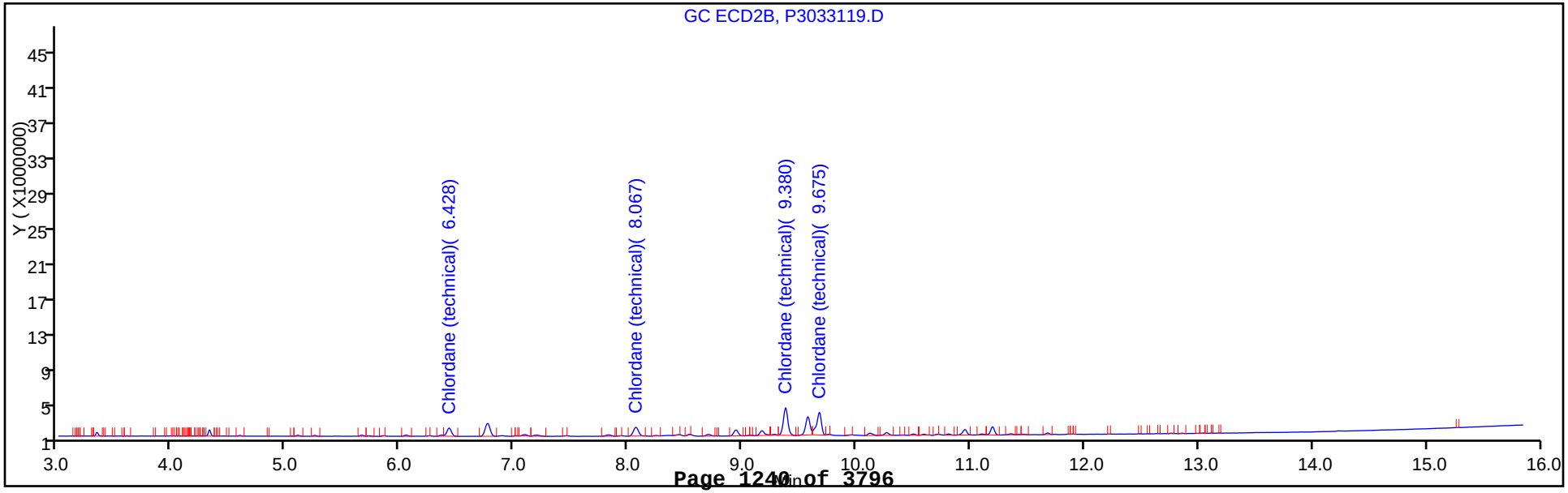
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033119.D

Injection Date:	31-Mar-2015 18:19:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033120.D
Lims ID: STD TC3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 18:42:40 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-020
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:47 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.235	5.235	0.000	4229157	100.0	98.8	
1	6.144	6.144	0.000	4845517	100.0	98.3	
1	7.462	7.462	0.000	16624397	100.0	99.7	
1	7.795	7.795	0.000	26283082	100.0	101.1	
		Average of Peak Amounts =				99.5	
2	6.429	6.429	0.000	4997586	100.0	102.1	
2	8.067	8.067	0.000	5598993	100.0	96.7	
2	9.381	9.381	0.000	17601105	100.0	99.4	
2	9.676	9.676	0.000	15976211	100.0	101.0	
		Average of Peak Amounts =				99.8	
						RPD = 0.35	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

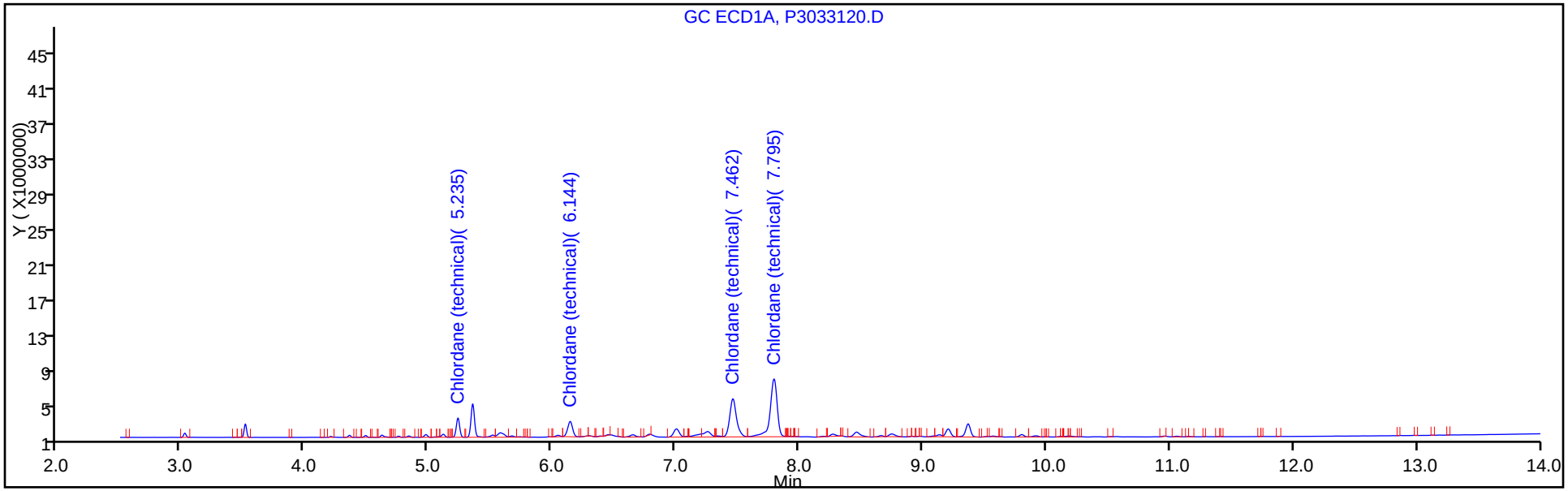
Report Date: 01-Apr-2015 08:57:48 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

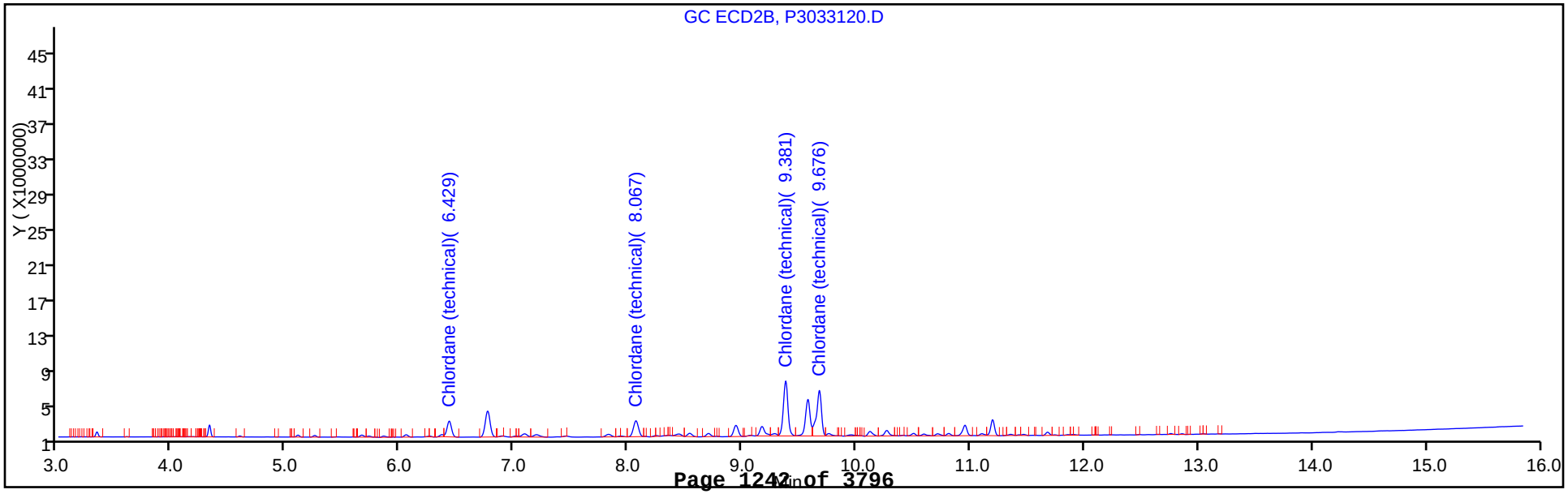
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033120.D

Injection Date:	31-Mar-2015 18:42:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033121.D
Lims ID: STD TC4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 19:04:22 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-021
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:50 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.229	5.235	-0.006	7969895	200.0	186.3	
1	6.136	6.144	-0.008	8884757	200.0	180.2	
1	7.451	7.462	-0.011	31893060	200.0	191.2	
1	7.786	7.795	-0.009	49906780	200.0	191.9	
		Average of Peak Amounts =				187.4	
2	6.428	6.429	-0.001	9765946	200.0	199.5	
2	8.066	8.067	-0.001	9931634	200.0	171.5	
2	9.379	9.381	-0.002	34605776	200.0	195.4	
2	9.675	9.676	-0.001	30848560	200.0	195.0	
		Average of Peak Amounts =				190.4	
						RPD = 1.58	

Reagents:

SGPESTTCST_00016 Amount Added: 200.00 Units: uL

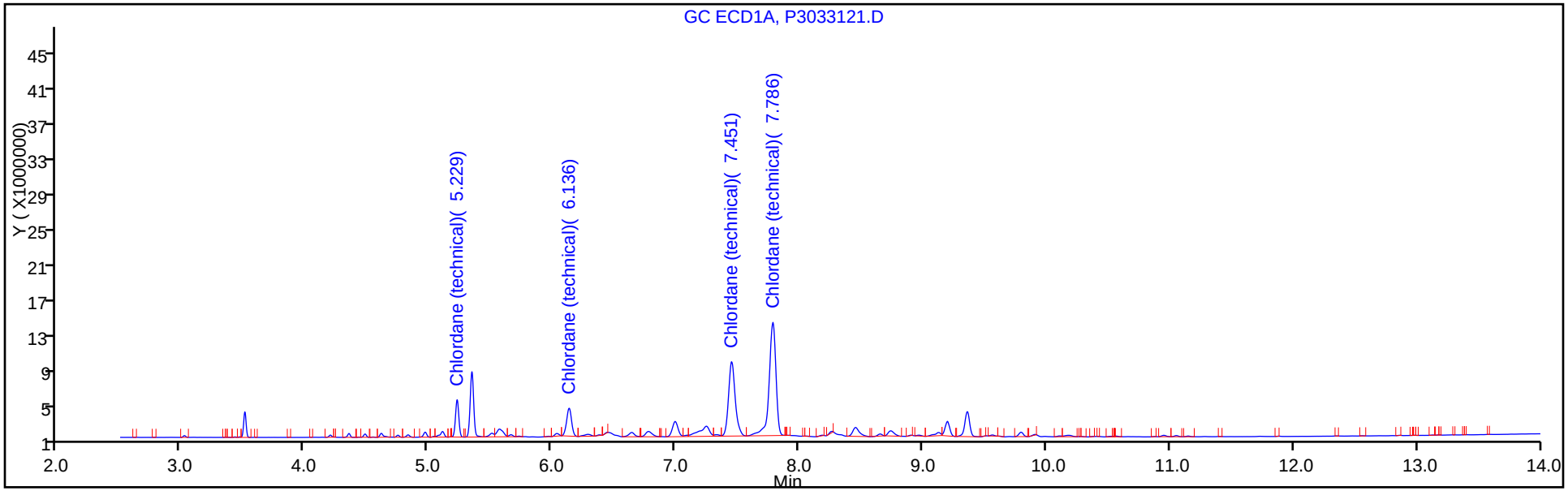
Report Date: 01-Apr-2015 08:57:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

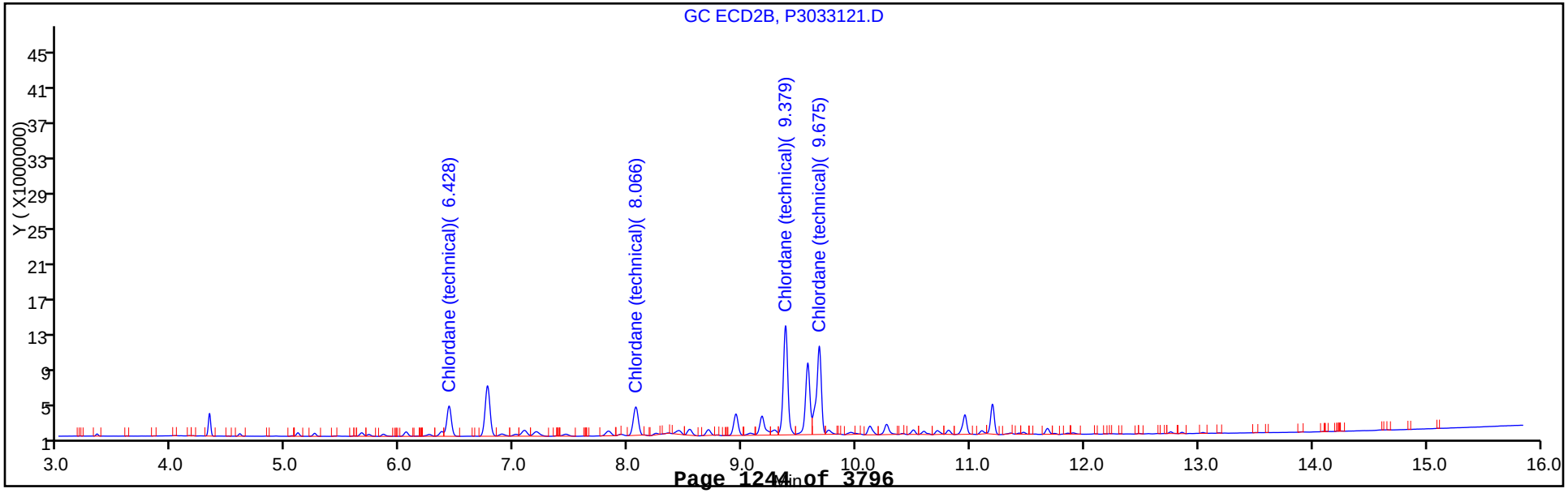
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033121.D

Injection Date:	31-Mar-2015 19:04:22	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D
Lims ID: STD TC5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 19:26:07 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-022
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:52 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:45:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.230	5.235	-0.005	21129134	500.0	493.8	
1	6.137	6.144	-0.007	22713680	500.0	460.7	
1	7.452	7.462	-0.010	83903606	500.0	503.0	
1	7.785	7.795	-0.010	130635056	500.0	502.3	
		Average of Peak Amounts =				489.9	
2	6.428	6.429	-0.001	24908769	500.0	508.8	
2	8.065	8.067	-0.002	24208203	500.0	418.1	
2	9.380	9.381	-0.001	90239885	500.0	509.7	
2	9.676	9.676	0.000	79772766	500.0	504.4	
		Average of Peak Amounts =				485.2	
						RPD = 0.96	

Reagents:

SGPESTTCST_00016 Amount Added: 500.00 Units: uL

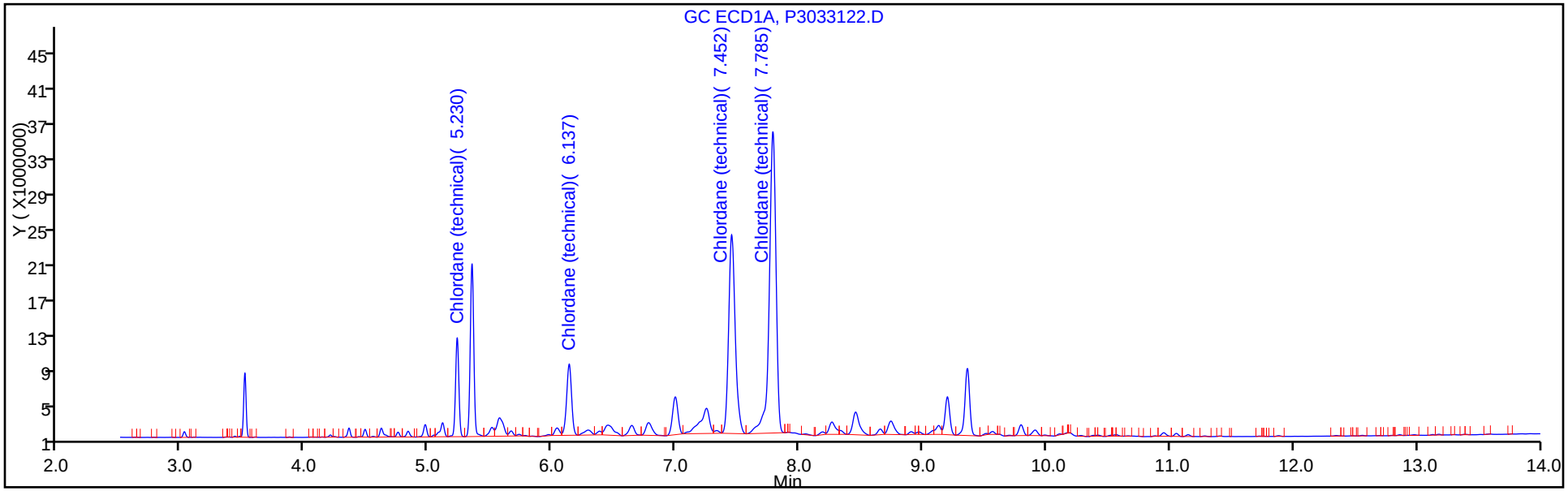
Report Date: 01-Apr-2015 08:57:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

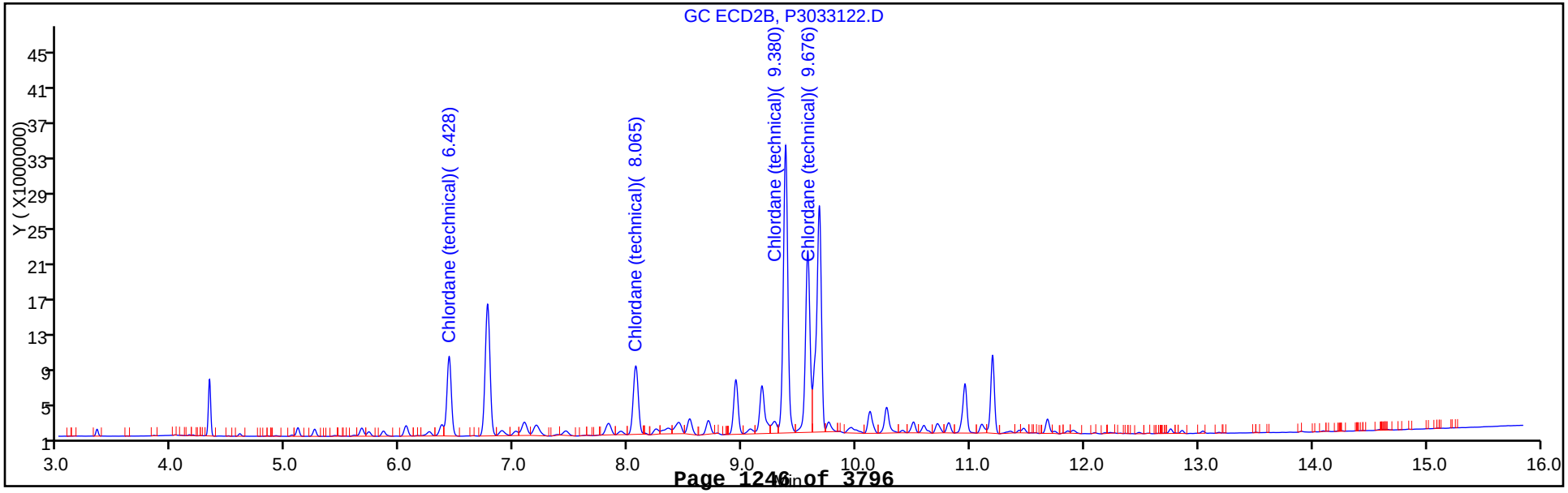
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Injection Date:	31-Mar-2015 19:26:07	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TC5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	4.301	4.300	4.301	4.302	4.301	4.300					4.270 - 4.330	4.301
gamma-BHC (Lindane)	4.695	4.694	4.695	4.696	4.695	4.693					4.663 - 4.723	4.695
beta-BHC	4.836	4.835	4.835	4.836	4.835	4.832					4.804 - 4.864	4.835
delta-BHC	5.063	5.062	5.062	5.063	5.062	5.059					5.030 - 5.090	5.062
Heptachlor	5.356	5.354	5.356	5.356	5.356	5.353					5.324 - 5.384	5.355
Aldrin	5.833	5.831	5.833	5.833	5.832	5.830					5.801 - 5.861	5.832
Heptachlor epoxide	7.141	7.140	7.141	7.142	7.141	7.138					7.107 - 7.167	7.141
gamma-Chlordane	7.461	7.460	7.462	7.462	7.461	7.458					7.429 - 7.489	7.461
alpha-Chlordane	7.801	7.798	7.799	7.802	7.801	7.798					7.768 - 7.828	7.800
Endosulfan I	8.070	8.070	8.068	8.071	8.071	8.067					8.039 - 8.099	8.070
4,4'-DDE	8.167	8.166	8.166	8.166	8.164	8.160					8.132 - 8.192	8.165
Dieldrin	8.614	8.615	8.614	8.614	8.613	8.612					8.582 - 8.642	8.614
Endrin	9.062	9.061	9.061	9.061	9.061	9.060					9.031 - 9.091	9.061
4,4'-DDD	9.421	9.416	9.415	9.415	9.412	9.411					9.383 - 9.443	9.415
Endosulfan II	9.507	9.508	9.507	9.506	9.507	9.505					9.475 - 9.535	9.507
4,4'-DDT	9.927	9.925	9.924	9.926	9.925	9.922					9.894 - 9.954	9.925
Endrin aldehyde	10.296	10.296	10.296	10.295	10.294	10.294					10.262 - 10.322	10.295
Methoxychlor	10.872	10.869	10.868	10.869	10.867	10.867					10.836 - 10.896	10.869
Endosulfan sulfate	11.016	11.015	11.015	11.015	11.015	11.013					10.984 - 11.044	11.015
Endrin ketone	11.415	11.414	11.414	11.415	11.414	11.412					11.382 - 11.442	11.414
Tetrachloro-m-xylene	3.605	3.603	3.604	3.605	3.604	3.602					3.572 - 3.632	3.604
DCB Decachlorobiphenyl	13.011	13.010	13.011	13.012	13.011	13.009					12.979 - 13.039	13.011

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1598656 1862732	1542762 1774126	1870799	1741949	Ave		1731837.37				7.8		20.0			
gamma-BHC (Lindane)	1444166 1650625	1392125 1572055	1662962	1540505	Ave		1543739.54				7.1		20.0			
beta-BHC	648919 643562	603406 611547	668316	603300	Ave		629841.700				4.4		20.0			
delta-BHC	1334934 1669255	1265888 1595962	1624558	1526385	Ave		1502830.39				11.0		20.0			
Heptachlor	1419255 1539307	1328852 1440456	1594667	1432800	Ave		1459222.83				6.5		20.0			
Aldrin	1422590 1535272	1341784 1459417	1569878	1442389	Ave		1461888.26				5.6		20.0			
Heptachlor epoxide	1323608 1355951	1218719 1258576	1395232	1271141	Ave		1303871.02				5.1		20.0			
gamma-Chlordane	1319278 1436042	1234866 1373343	1424400	1315843	Ave		1350628.70				5.6		20.0			
alpha-Chlordane	1332420 1404141	1240746 1333789	1416003	1298558	Ave		1337609.30				4.9		20.0			
Endosulfan I	1232567 1278830	1154240 1187073	1316408	1195997	Ave		1227519.14				5.0		20.0			
4,4'-DDE	1068121 1305682	1059026 1268379	1242053	1164800	Ave		1184676.67				8.8		20.0			
Dieldrin	1238410 1396445	1203470 1306375	1407123	1293746	Ave		1307594.88				6.3		20.0			
Endrin	1100841 1228102	1054284 1147312	1250839	1126938	Ave		1151385.84				6.5		20.0			
4,4'-DDD	732191 995346	726214 976133	920182	872433	Ave		870416.413				13.5		20.0			
Endosulfan II	1178838 1186137	1109442 1087940	1269603	1109416	Ave		1156895.92				5.9		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	838052 1074969	788232 1058253	1030418	941265	Ave		955198.054				12.6		20.0			
Endrin aldehyde	918886 907222	869334 826852	962795	859942	Ave		890838.566				5.4		20.0			
Methoxychlor	469411 464723	438857 447611	491144	437625	Ave		458228.437				4.5		20.0			
Endosulfan sulfate	1017060 1023414	960900 947644	1064806	963339	Ave		996193.806				4.6		20.0			
Endrin ketone	1245844 1236216	1189679 1140175	1328097	1191871	Ave		1221980.44				5.3		20.0			
Tetrachloro-m-xylene	999059 1009794	924285 948186	1057759	962085	Ave		983527.986				4.9		20.0			
DCB Decachlorobiphenyl	1052590 882664	961176 848559	991991	881758	Ave		936456.367				8.4		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	7993281 354825181	15427617	46769971	87097467	186273224	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Ave	7220829 314410933	13921250	41574049	77025264	165062455	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	3244596 122309456	6034059	16707890	30165006	64356210	5.00 200	10.0	25.0	50.0	100
delta-BHC	Ave	6674668 319192463	12658880	40613949	76319253	166925543	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	7096274 288091249	13288516	39866687	71639995	153930697	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	7112948 291883438	13417843	39246951	72119434	153527177	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	6618040 251715160	12187185	34880799	63557048	135595093	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	6596391 274668690	12348664	35610001	65792126	143604158	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	6662099 266757855	12407456	35400064	64927892	140414073	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	6162836 237414688	11542395	32910197	59799863	127882954	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Ave	5340605 253675814	10590255	31051315	58240006	130568170	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	6192051 261274932	12034701	35178081	64687313	139644483	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	5504203 229462332	10542835	31270972	56346911	122810215	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Ave	3660954 195226651	7262139	23004544	43621651	99534574	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	5894190 217587968	11094415	31740081	55470808	118613675	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Ave	4190259 211650515	7882323	25760449	47063249	107496871	5.00 200	10.0	25.0	50.0	100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	4594432 165370411	8693339	24069870	42997118	90722188	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	2347056 89522192	4388568	12278595	21881225	46472336	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	5085300 189528753	9609001	26620156	48166927	102341419	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	6229218 228035065	11896793	33202430	59593571	123621579	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	4995293 189637291	9242851	26443978	48104246	100979372	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	5262952 169711774	9611764	24799770	44087885	88266403	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D
Lims ID: STD AB1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 20:34:34 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-025
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:02 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.602	0.003	4995293	5.00	5.08	
2	4.287	4.287	0.000	5976395	5.00	5.30	
						RPD = 4.31	
4 alpha-BHC							
1	4.301	4.300	0.001	7993281	5.00	4.62	
2	5.198	5.198	0.000	9195421	5.00	4.70	
						RPD = 1.76	
5 gamma-BHC (Lindane)							
1	4.695	4.693	0.002	7220829	5.00	4.68	
2	5.838	5.837	0.001	8544743	5.00	4.83	
						RPD = 3.18	
6 beta-BHC							
1	4.836	4.834	0.002	3244596	5.00	5.15	
2	6.040	6.039	0.001	4183054	5.00	5.44	
						RPD = 5.52	
7 delta-BHC							
1	5.063	5.060	0.003	6674668	5.00	4.44	
2	6.681	6.681	0.000	8260715	5.00	4.66	
						RPD = 4.72	
9 Heptachlor							
1	5.356	5.354	0.002	7096274	5.00	4.86	
2	6.766	6.765	0.001	8502776	5.00	5.03	
						RPD = 3.37	
10 Aldrin							
1	5.833	5.831	0.002	7112948	5.00	4.87	
2	7.586	7.583	0.003	8372425	5.00	5.01	
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.137	0.004	6618040	5.00	5.08	
2	8.992	8.991	0.001	7415262	5.00	5.17	
						RPD = 1.76	
13 gamma-Chlordane							
1	7.461	7.459	0.002	6596391	5.00	4.88	
2	9.381	9.381	0.000	7494937	5.00	5.09	
						RPD = 4.22	
14 alpha-Chlordane							
1	7.801	7.798	0.003	6662099	5.00	4.98	
2	9.676	9.675	0.001	7252296	5.00	5.11	
						RPD = 2.48	
15 Endosulfan I							
1	8.070	8.069	0.001	6162836	5.00	5.02	
2	9.746	9.746	0.000	6816292	5.00	5.16	
						RPD = 2.69	
16 4,4'-DDE							
1	8.167	8.162	0.005	5340605	5.00	4.51	
2	10.096	10.096	0.000	6355333	5.00	4.81	
						RPD = 6.55	
17 Dieldrin							
1	8.614	8.612	0.002	6192051	5.00	4.74	
2	10.257	10.256	0.001	6788945	5.00	4.96	
						RPD = 4.68	
18 Endrin							
1	9.062	9.061	0.001	5504203	5.00	4.78	
2	10.767	10.766	0.001	6014479	5.00	4.99	
						RPD = 4.27	
20 4,4'-DDD							
1	9.421	9.413	0.008	3660954	5.00	4.21	
2	11.084	11.083	0.001	4604106	5.00	4.70	
						RPD = 11.19	
21 Endosulfan II							
1	9.507	9.505	0.002	5894190	5.00	5.09	
2	11.136	11.134	0.002	6066579	5.00	5.19	
						RPD = 1.81	
23 4,4'-DDT							
1	9.927	9.924	0.003	4190259	5.00	4.39	
2	11.566	11.564	0.002	4776608	5.00	4.79	
						RPD = 8.71	
25 Endrin aldehyde							
1	10.296	10.292	0.004	4594432	5.00	5.16	
2	11.691	11.689	0.002	4945988	5.00	5.30	
						RPD = 2.66	
27 Methoxychlor							
1	10.872	10.866	0.006	2347056	5.00	5.12	
2	12.629	12.626	0.003	2562127	5.00	5.24	
						RPD = 2.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.016	11.014	0.002	5085300	5.00	5.10	
2	12.111	12.110	0.001	5442796	5.00	5.14	
						RPD = 0.67	
29 Endrin ketone							
1	11.415	11.412	0.003	6229218	5.00	5.10	
2	12.856	12.855	0.001	6223871	5.00	5.07	
						RPD = 0.57	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.009	0.002	5262952	5.00	5.62	
2	14.571	14.568	0.003	5624059	5.00	5.52	
						RPD = 1.71	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

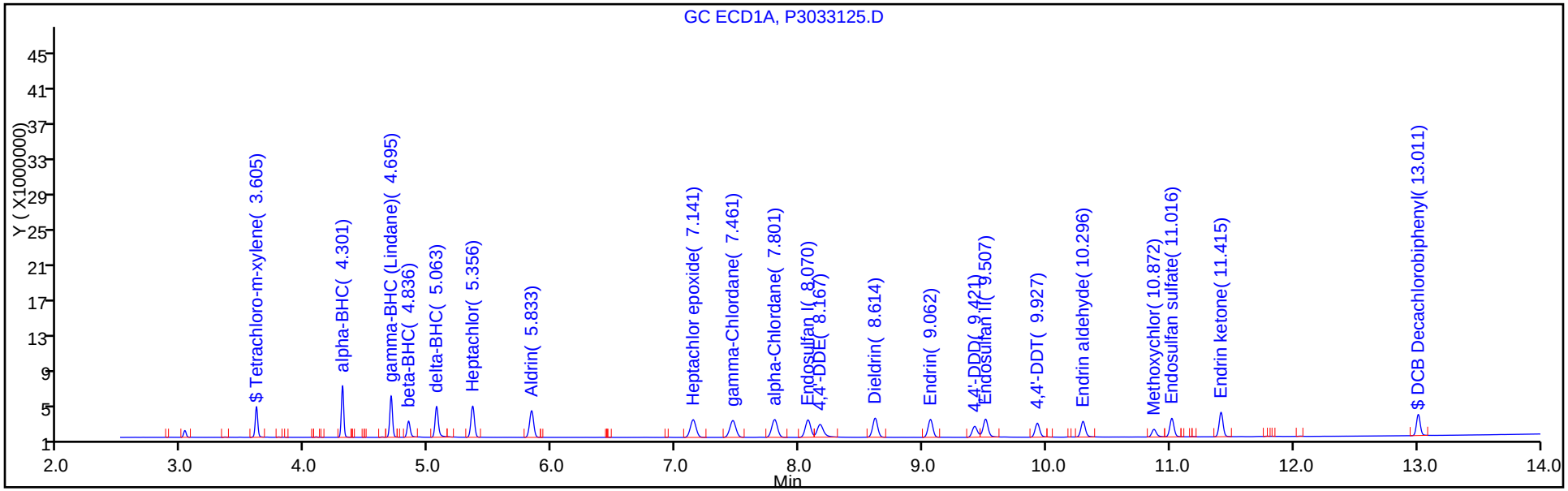
Report Date: 01-Apr-2015 08:58:04 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

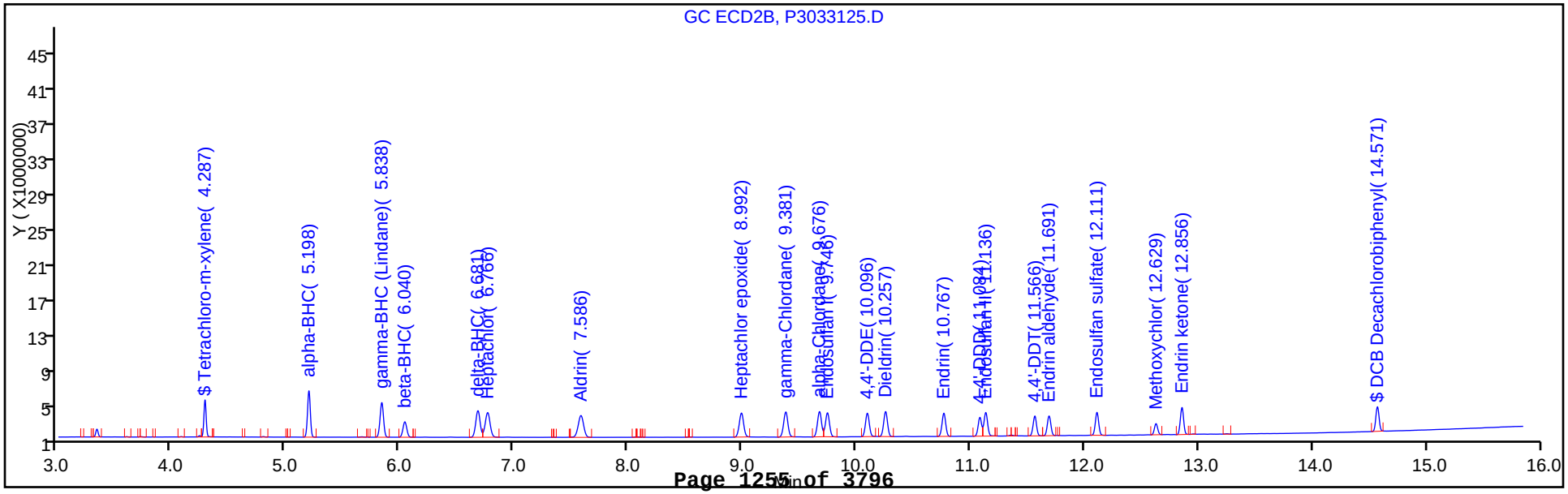
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D

Injection Date:	31-Mar-2015 20:34:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D
Lims ID: STD AB2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 20:57:32 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-026
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:06 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	9242851	10.0	9.40	
2	4.286	4.287	-0.001	10851740	10.0	9.63	
						RPD = 2.43	
4 alpha-BHC							
1	4.300	4.300	0.000	15427617	10.0	8.91	
2	5.199	5.198	0.001	17699620	10.0	9.04	
						RPD = 1.49	
5 gamma-BHC (Lindane)							
1	4.694	4.693	0.001	13921250	10.0	9.02	
2	5.837	5.837	0.000	16139715	10.0	9.12	
						RPD = 1.14	
6 beta-BHC							
1	4.835	4.834	0.001	6034059	10.0	9.58	
2	6.040	6.039	0.001	7525710	10.0	9.79	
						RPD = 2.21	
7 delta-BHC							
1	5.062	5.060	0.002	12658880	10.0	8.42	
2	6.680	6.681	-0.001	15792059	10.0	8.90	
						RPD = 5.52	
9 Heptachlor							
1	5.354	5.354	0.000	13288516	10.0	9.11	
2	6.765	6.765	0.000	15740575	10.0	9.31	
						RPD = 2.22	
10 Aldrin							
1	5.831	5.831	0.000	13417843	10.0	9.18	
2	7.586	7.583	0.003	15503993	10.0	9.27	
						RPD = 1.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.140	7.137	0.003	12187185	10.0	9.35	
2	8.992	8.991	0.001	13689871	10.0	9.54	
						RPD = 2.01	
13 gamma-Chlordane							
1	7.460	7.459	0.001	12348664	10.0	9.14	
2	9.382	9.381	0.001	13636997	10.0	9.27	
						RPD = 1.38	
14 alpha-Chlordane							
1	7.798	7.798	0.000	12407456	10.0	9.28	
2	9.676	9.675	0.001	13324673	10.0	9.38	
						RPD = 1.13	
15 Endosulfan I							
1	8.070	8.069	0.001	11542395	10.0	9.40	
2	9.746	9.746	0.000	12609879	10.0	9.54	
						RPD = 1.46	
16 4,4'-DDE							
1	8.166	8.162	0.004	10590255	10.0	8.94	
2	10.097	10.096	0.001	12110985	10.0	9.17	
						RPD = 2.57	
17 Dieldrin							
1	8.615	8.612	0.003	12034701	10.0	9.20	
2	10.257	10.256	0.001	12731838	10.0	9.31	
						RPD = 1.11	
18 Endrin							
1	9.061	9.061	0.000	10542835	10.0	9.16	
2	10.768	10.766	0.002	11147706	10.0	9.25	
						RPD = 0.98	
20 4,4'-DDD							
1	9.416	9.413	0.003	7262139	10.0	8.34	
2	11.084	11.083	0.001	8648786	10.0	8.84	
						RPD = 5.75	
21 Endosulfan II							
1	9.508	9.505	0.003	11094415	10.0	9.59	
2	11.135	11.134	0.001	11114726	10.0	9.50	
						RPD = 0.89	
23 4,4'-DDT							
1	9.925	9.924	0.001	7882323	10.0	8.25	
2	11.565	11.564	0.001	8959182	10.0	8.98	
						RPD = 8.42	
25 Endrin aldehyde							
1	10.296	10.292	0.004	8693339	10.0	9.76	
2	11.690	11.689	0.001	9270072	10.0	9.93	
						RPD = 1.71	
27 Methoxychlor							
1	10.869	10.866	0.003	4388568	10.0	9.58	
2	12.628	12.626	0.002	4828736	10.0	9.87	
						RPD = 3.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.014	0.001	9609001	10.0	9.65	
2	12.111	12.110	0.001	10245858	10.0	9.67	
						RPD = 0.29	
29 Endrin ketone							
1	11.414	11.412	0.002	11896793	10.0	9.74	
2	12.855	12.855	0.000	11801446	10.0	9.61	
						RPD = 1.29	
$ 30 DCB Decachlorobiphenyl							
1	13.010	13.009	0.001	9611764	10.0	10.3	
2	14.570	14.568	0.002	10514527	10.0	10.3	
						RPD = 0.63	

Reagents:

SGPestAB2_00009 Amount Added: 1.00 Units: mL

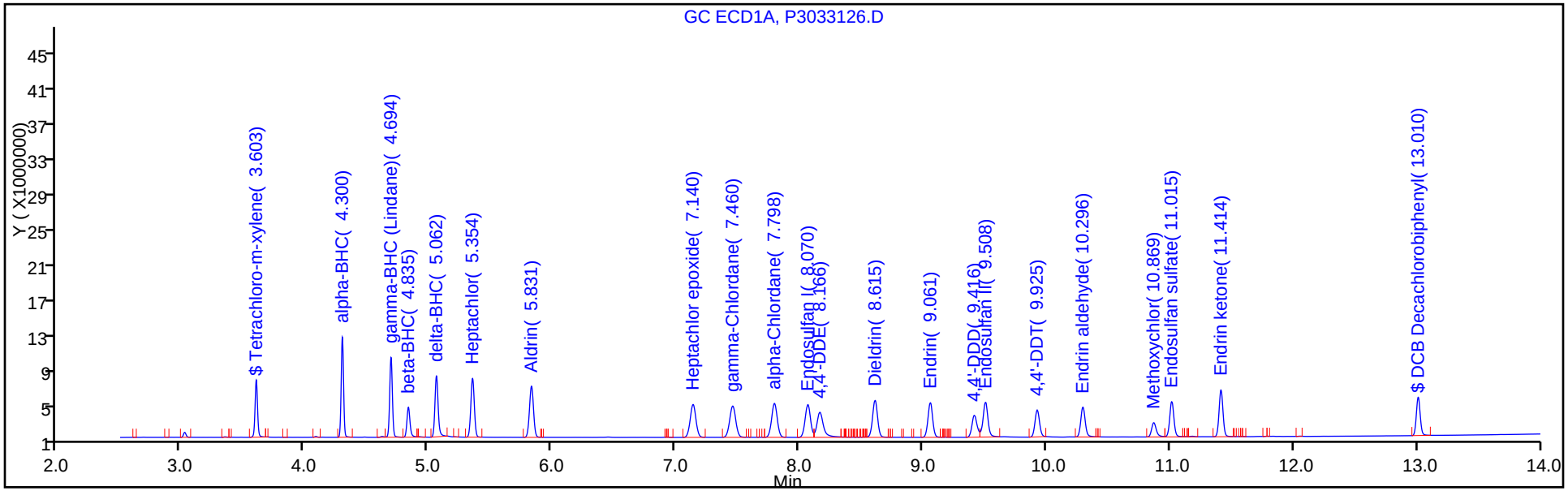
Report Date: 01-Apr-2015 08:58:07 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

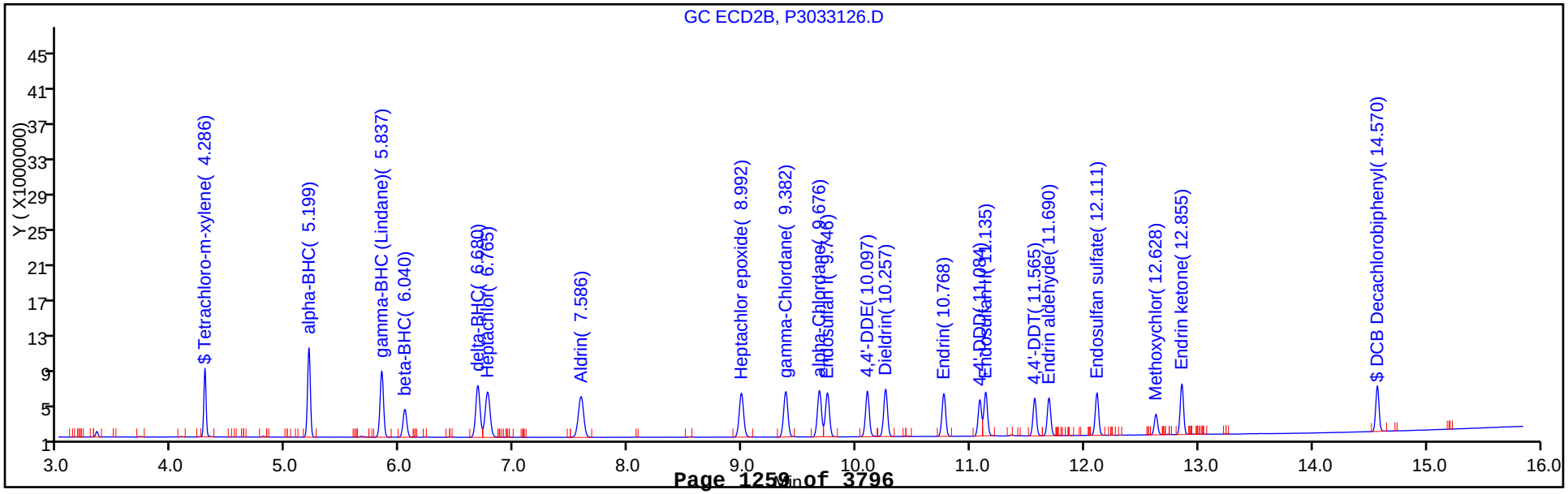
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D

Injection Date:	31-Mar-2015 20:57:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB2			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D
Lims ID: STD AB3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 21:20:40 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:08 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	26443978	25.0	26.9	
2	4.287	4.287	0.000	30167206	25.0	26.8	
						RPD = 0.45	
4 alpha-BHC							
1	4.301	4.301	0.000	46769971	25.0	27.0	
2	5.199	5.199	0.000	52950629	25.0	27.0	
						RPD = 0.16	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	41574049	25.0	26.9	
2	5.837	5.837	0.000	47599126	25.0	26.9	
						RPD = 0.12	
6 beta-BHC							
1	4.835	4.835	0.000	16707890	25.0	26.5	
2	6.040	6.040	0.000	20332064	25.0	26.5	
						RPD = 0.25	
7 delta-BHC							
1	5.062	5.062	0.000	40613949	25.0	27.0	
2	6.681	6.681	0.000	47690894	25.0	26.9	
						RPD = 0.53	
9 Heptachlor							
1	5.356	5.356	0.000	39866687	25.0	27.3	
2	6.765	6.765	0.000	45959059	25.0	27.2	
						RPD = 0.49	
10 Aldrin							
1	5.833	5.833	0.000	39246951	25.0	26.8	
2	7.585	7.585	0.000	44658266	25.0	26.7	
						RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	34880799	25.0	26.8	
2	8.992	8.992	0.000	38457347	25.0	26.8	
						RPD = 0.15	
13 gamma-Chlordane							
1	7.462	7.462	0.000	35610001	25.0	26.4	
2	9.381	9.381	0.000	38906572	25.0	26.4	
						RPD = 0.31	
14 alpha-Chlordane							
1	7.799	7.799	0.000	35400064	25.0	26.5	
2	9.676	9.676	0.000	37899355	25.0	26.7	
						RPD = 0.82	
15 Endosulfan I							
1	8.068	8.068	0.000	32910197	25.0	26.8	
2	9.746	9.746	0.000	35568057	25.0	26.9	
						RPD = 0.38	
16 4,4'-DDE							
1	8.166	8.166	0.000	31051315	25.0	26.2	
2	10.096	10.096	0.000	35268356	25.0	26.7	
						RPD = 1.89	
17 Dieldrin							
1	8.614	8.614	0.000	35178081	25.0	26.9	
2	10.256	10.256	0.000	36449407	25.0	26.6	
						RPD = 0.97	
18 Endrin							
1	9.061	9.061	0.000	31270972	25.0	27.2	
2	10.768	10.768	0.000	32475088	25.0	26.9	
						RPD = 0.82	
20 4,4'-DDD							
1	9.415	9.415	0.000	23004544	25.0	26.4	
2	11.083	11.083	0.000	26001941	25.0	26.6	
						RPD = 0.53	
21 Endosulfan II							
1	9.507	9.507	0.000	31740081	25.0	27.4	
2	11.134	11.134	0.000	31413336	25.0	26.9	
						RPD = 2.11	
23 4,4'-DDT							
1	9.924	9.924	0.000	25760449	25.0	27.0	
2	11.565	11.565	0.000	26675891	25.0	26.7	
						RPD = 0.89	
25 Endrin aldehyde							
1	10.296	10.296	0.000	24069870	25.0	27.0	
2	11.690	11.690	0.000	24740219	25.0	26.5	
						RPD = 1.97	
27 Methoxychlor							
1	10.868	10.868	0.000	12278595	25.0	26.8	
2	12.628	12.628	0.000	13011833	25.0	26.6	
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	26620156	25.0	26.7	
2	12.110	12.110	0.000	28332394	25.0	26.8	
						RPD = 0.11	
29 Endrin ketone							
1	11.414	11.414	0.000	33202430	25.0	27.2	
2	12.856	12.856	0.000	32833375	25.0	26.7	
						RPD = 1.60	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	24799770	25.0	26.5	
2	14.570	14.570	0.000	27167237	25.0	26.7	
						RPD = 0.77	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

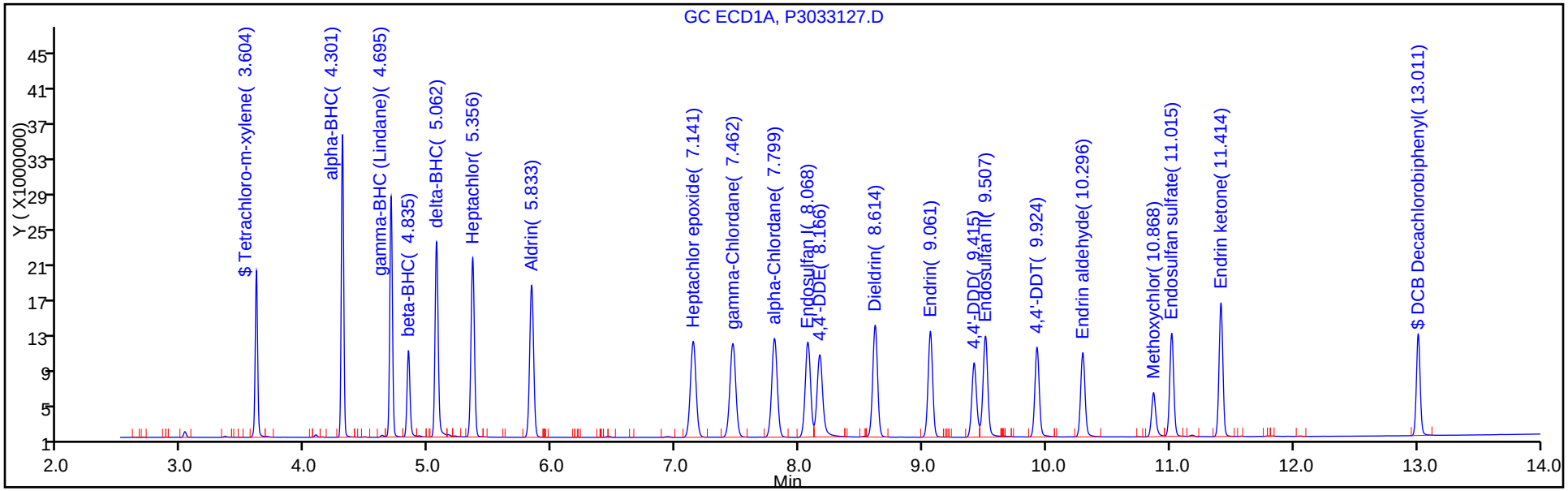
Report Date: 01-Apr-2015 08:58:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

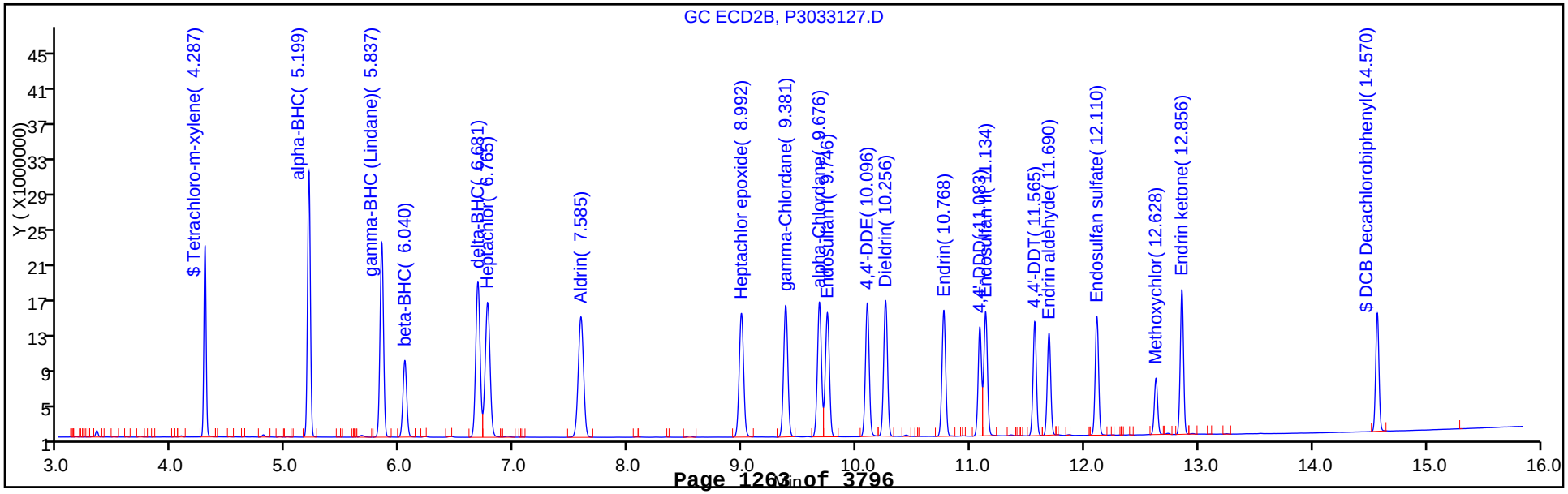
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D

Injection Date:	31-Mar-2015 21:20:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D
Lims ID: STD AB4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 21:44:03 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-028
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:11 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:49:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.604	0.001	48104246	50.0	48.9	
2	4.287	4.287	0.000	54305672	50.0	48.2	
						RPD = 1.49	
4 alpha-BHC							
1	4.302	4.301	0.001	87097467	50.0	50.3	
2	5.198	5.199	-0.001	98042560	50.0	50.1	
						RPD = 0.41	
5 gamma-BHC (Lindane)							
1	4.696	4.695	0.001	77025264	50.0	49.9	
2	5.837	5.837	0.000	87552352	50.0	49.5	
						RPD = 0.84	
6 beta-BHC							
1	4.836	4.835	0.001	30165006	50.0	47.9	
2	6.040	6.040	0.000	36397222	50.0	47.4	
						RPD = 1.10	
7 delta-BHC							
1	5.063	5.062	0.001	76319253	50.0	50.8	
2	6.681	6.681	0.000	88387997	50.0	49.8	
						RPD = 1.92	
9 Heptachlor							
1	5.356	5.356	0.000	71639995	50.0	49.1	
2	6.766	6.765	0.001	81257807	50.0	48.1	
						RPD = 2.12	
10 Aldrin							
1	5.833	5.833	0.000	72119434	50.0	49.3	
2	7.586	7.585	0.001	81365132	50.0	48.7	
						RPD = 1.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.142	7.141	0.001	63557048	50.0	48.7	
2	8.992	8.992	0.000	69475178	50.0	48.4	
						RPD = 0.71	
13 gamma-Chlordane							
1	7.462	7.462	0.000	65792126	50.0	48.7	
2	9.381	9.381	0.000	71367916	50.0	48.5	
						RPD = 0.41	
14 alpha-Chlordane							
1	7.802	7.799	0.003	64927892	50.0	48.5	
2	9.677	9.676	0.001	68733372	50.0	48.4	
						RPD = 0.31	
15 Endosulfan I							
1	8.071	8.068	0.003	59799863	50.0	48.7	
2	9.747	9.746	0.001	63881581	50.0	48.3	
						RPD = 0.78	
16 4,4'-DDE							
1	8.166	8.166	0.000	58240006	50.0	49.2	
2	10.097	10.096	0.001	64399402	50.0	48.8	
						RPD = 0.79	
17 Dieldrin							
1	8.614	8.614	0.000	64687313	50.0	49.5	
2	10.256	10.256	0.000	66586628	50.0	48.7	
						RPD = 1.63	
18 Endrin							
1	9.061	9.061	0.000	56346911	50.0	48.9	
2	10.768	10.768	0.000	58027543	50.0	48.1	
						RPD = 1.66	
20 4,4'-DDD							
1	9.415	9.415	0.000	43621651	50.0	50.1	
2	11.084	11.083	0.001	48125406	50.0	49.2	
						RPD = 1.89	
21 Endosulfan II							
1	9.506	9.507	-0.001	55470808	50.0	47.9	
2	11.135	11.134	0.001	56194228	50.0	48.1	
						RPD = 0.22	
23 4,4'-DDT							
1	9.926	9.924	0.002	47063249	50.0	49.3	
2	11.565	11.565	0.000	47803384	50.0	47.9	
						RPD = 2.82	
25 Endrin aldehyde							
1	10.295	10.296	-0.001	42997118	50.0	48.3	
2	11.690	11.690	0.000	44519851	50.0	47.7	
						RPD = 1.24	
27 Methoxychlor							
1	10.869	10.868	0.001	21881225	50.0	47.8	
2	12.628	12.628	0.000	22888462	50.0	46.8	
						RPD = 2.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	48166927	50.0	48.4	
2	12.110	12.110	0.000	50695672	50.0	47.9	
						RPD = 1.01	
29 Endrin ketone							
1	11.415	11.414	0.001	59593571	50.0	48.8	
2	12.856	12.856	0.000	59168122	50.0	48.2	
						RPD = 1.20	
$ 30 DCB Decachlorobiphenyl							
1	13.012	13.011	0.001	44087885	50.0	47.1	
2	14.570	14.570	0.000	48028681	50.0	47.2	
						RPD = 0.21	

Reagents:

SGPestAB4_00009 Amount Added: 1.00 Units: mL

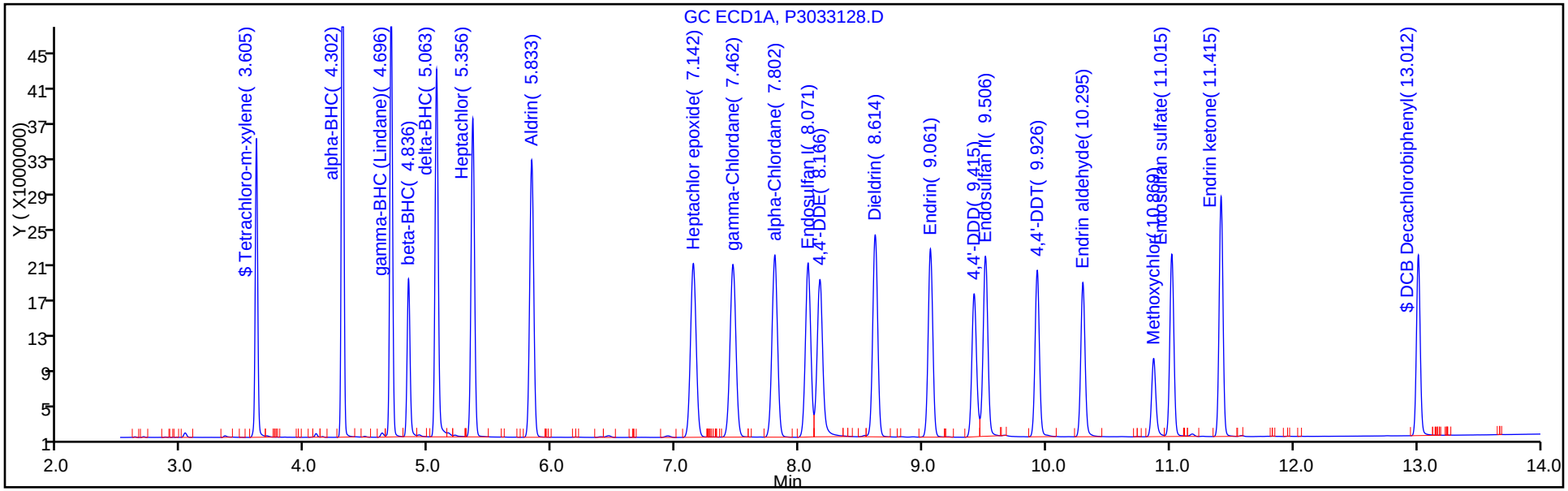
Report Date: 01-Apr-2015 08:58:13 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

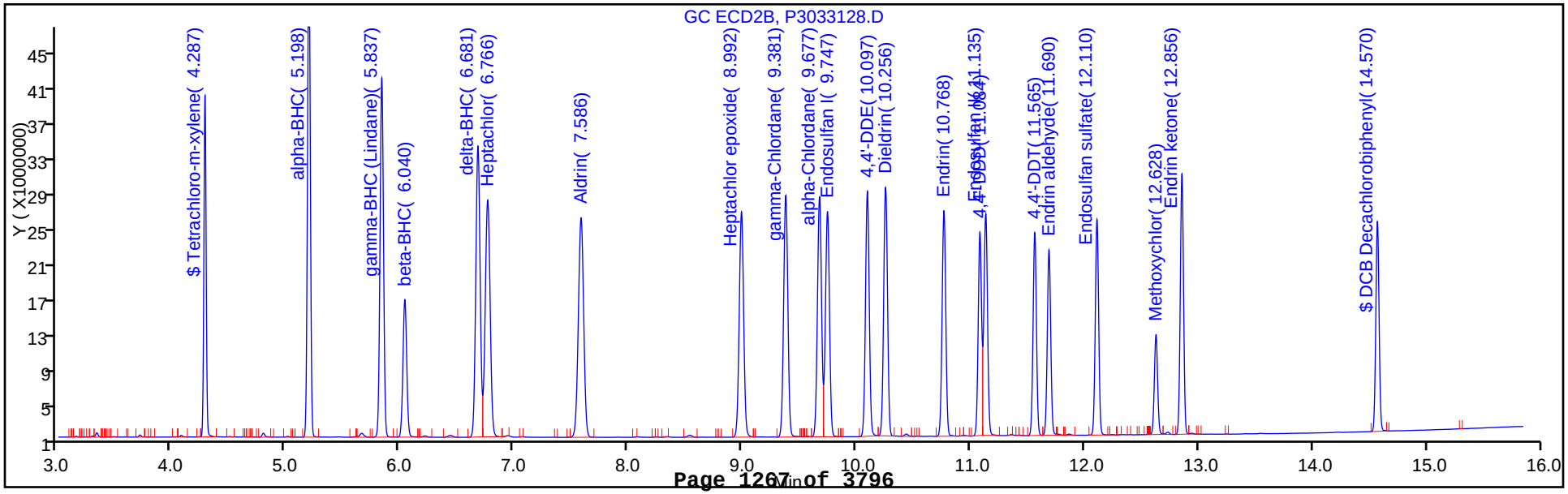
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D

Injection Date:	31-Mar-2015 21:44:03	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D
Lims ID: STD AB5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 22:07:14 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-029
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:14 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	100979372	100.0	102.7	
2	4.287	4.287	0.000	113034706	100.0	100.3	
						RPD = 2.34	
4 alpha-BHC							
1	4.301	4.301	0.000	186273224	100.0	107.6	
2	5.199	5.199	0.000	208465883	100.0	106.5	
						RPD = 0.99	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	165062455	100.0	106.9	
2	5.837	5.837	0.000	186977616	100.0	105.7	
						RPD = 1.18	
6 beta-BHC							
1	4.835	4.835	0.000	64356210	100.0	102.2	
2	6.040	6.040	0.000	76204305	100.0	99.2	
						RPD = 2.98	
7 delta-BHC							
1	5.062	5.062	0.000	166925543	100.0	111.1	
2	6.680	6.681	-0.001	191902373	100.0	108.2	
						RPD = 2.65	
9 Heptachlor							
1	5.356	5.356	0.000	153930697	100.0	105.5	
2	6.767	6.765	0.002	176072167	100.0	104.2	
						RPD = 1.27	
10 Aldrin							
1	5.832	5.833	-0.001	153527177	100.0	105.0	
2	7.584	7.585	-0.001	174114951	100.0	104.1	
						RPD = 0.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	135595093	100.0	104.0	
2	8.992	8.992	0.000	146595251	100.0	102.1	
						RPD = 1.81	
13 gamma-Chlordane							
1	7.461	7.462	-0.001	143604158	100.0	106.3	
2	9.382	9.381	0.001	152807674	100.0	103.9	
						RPD = 2.34	
14 alpha-Chlordane							
1	7.801	7.799	0.002	140414073	100.0	105.0	
2	9.677	9.676	0.001	146119135	100.0	102.9	
						RPD = 2.02	
15 Endosulfan I							
1	8.071	8.068	0.003	127882954	100.0	104.2	
2	9.747	9.746	0.001	134897952	100.0	102.1	
						RPD = 2.04	
16 4,4'-DDE							
1	8.164	8.166	-0.002	130568170	100.0	110.2	
2	10.097	10.096	0.001	140151362	100.0	106.1	
						RPD = 3.76	
17 Dieldrin							
1	8.613	8.614	-0.001	139644483	100.0	106.8	
2	10.257	10.256	0.001	143152571	100.0	104.6	
						RPD = 2.04	
18 Endrin							
1	9.061	9.061	0.000	122810215	100.0	106.7	
2	10.767	10.768	-0.001	126436870	100.0	104.9	
						RPD = 1.69	
20 4,4'-DDD							
1	9.412	9.415	-0.003	99534574	100.0	114.4	
2	11.083	11.083	0.000	106287930	100.0	108.6	
						RPD = 5.15	
21 Endosulfan II							
1	9.507	9.507	0.000	118613675	100.0	102.5	
2	11.134	11.134	0.000	119019734	100.0	101.8	
						RPD = 0.74	
23 4,4'-DDT							
1	9.925	9.924	0.001	107496871	100.0	112.5	
2	11.565	11.565	0.000	106648312	100.0	106.9	
						RPD = 5.17	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	90722188	100.0	101.8	
2	11.690	11.690	0.000	93913976	100.0	100.6	
						RPD = 1.26	
27 Methoxychlor							
1	10.867	10.868	-0.001	46472336	100.0	101.4	
2	12.627	12.628	-0.001	48177105	100.0	98.5	
						RPD = 2.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	102341419	100.0	102.7	
2	12.110	12.110	0.000	107630350	100.0	101.6	
						RPD = 1.09	
29 Endrin ketone							
1	11.414	11.414	0.000	123621579	100.0	101.2	
2	12.856	12.856	0.000	125541054	100.0	102.2	
						RPD = 1.06	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	88266403	100.0	94.3	
2	14.570	14.570	0.000	96538779	100.0	94.8	
						RPD = 0.61	

Reagents:

SGPestAB5_00009 Amount Added: 1.00 Units: mL

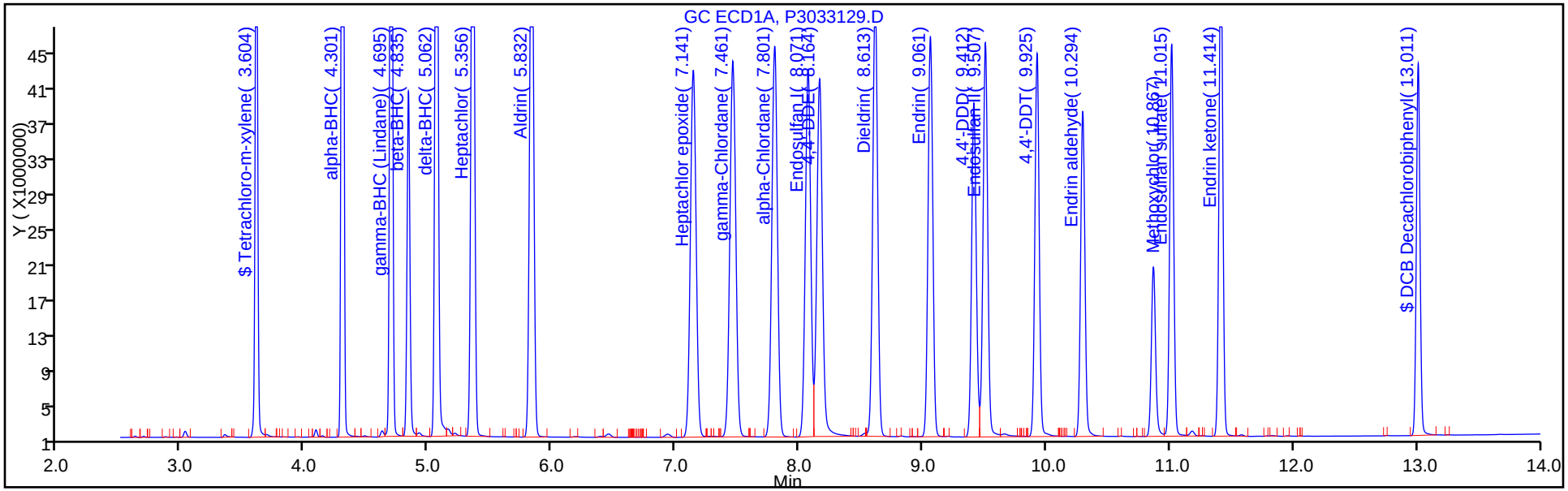
Report Date: 01-Apr-2015 08:58:16 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

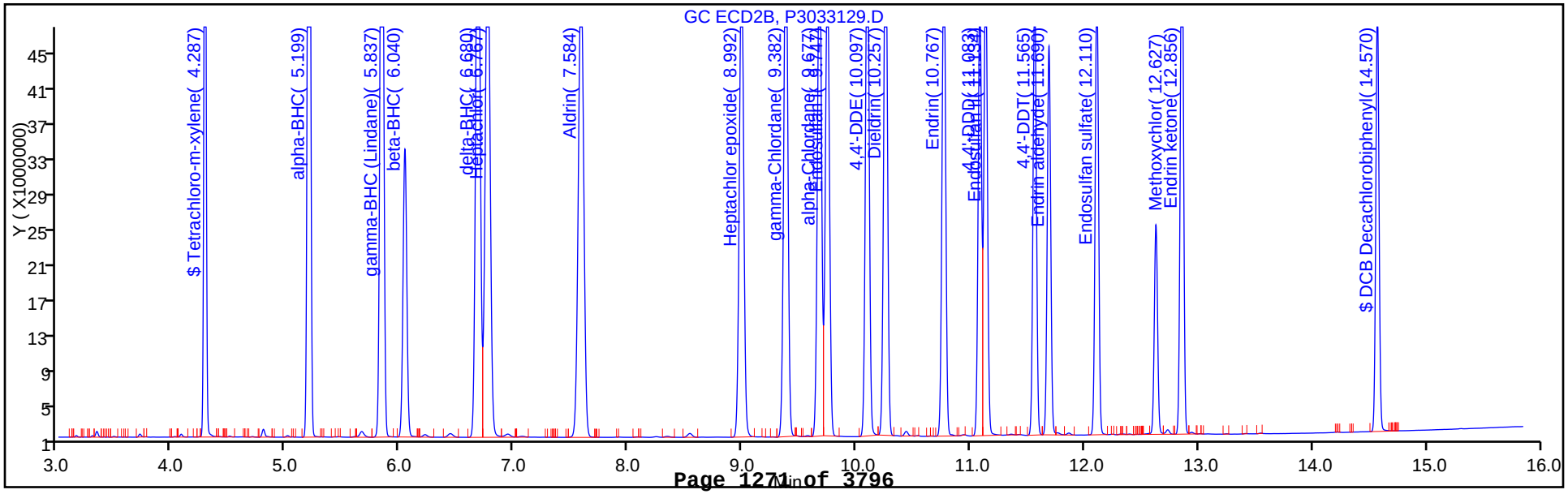
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D

Injection Date:	31-Mar-2015 22:07:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB5			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D
Lims ID: STD AB6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Mar-2015 22:29:58 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-030
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:17 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.602	3.604	-0.002	189637291	200.0	192.8	
2	4.287	4.287	0.000	211706263	200.0	187.8	
						RPD = 2.61	
4 alpha-BHC							
1	4.300	4.301	-0.001	354825181	200.0	204.9	
2	5.198	5.199	-0.001	394533340	200.0	201.5	
						RPD = 1.64	
5 gamma-BHC (Lindane)							
1	4.693	4.695	-0.002	314410933	200.0	203.7	
2	5.837	5.837	0.000	353874715	200.0	200.0	
						RPD = 1.83	
6 beta-BHC							
1	4.832	4.835	-0.003	122309456	200.0	194.2	
2	6.038	6.040	-0.002	143550510	200.0	186.8	
						RPD = 3.87	
7 delta-BHC							
1	5.059	5.062	-0.003	319192463	200.0	212.4	
2	6.680	6.681	-0.001	363835550	200.0	205.1	
						RPD = 3.51	
9 Heptachlor							
1	5.353	5.356	-0.003	288091249	200.0	197.4	
2	6.767	6.765	0.002	328861796	200.0	194.5	
						RPD = 1.48	
10 Aldrin							
1	5.830	5.833	-0.003	291883438	200.0	199.7	
2	7.585	7.585	0.000	330701385	200.0	197.8	
						RPD = 0.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.138	7.141	-0.003	251715160	200.0	193.1	
2	8.992	8.992	0.000	273352880	200.0	190.4	
						RPD = 1.37	
13 gamma-Chlordane							
1	7.458	7.462	-0.004	274668690	200.0	203.4	
2	9.381	9.381	0.000	290505462	200.0	197.5	
						RPD = 2.94	
14 alpha-Chlordane							
1	7.798	7.799	-0.001	266757855	200.0	199.4	
2	9.677	9.676	0.001	277491300	200.0	195.4	
						RPD = 2.06	
15 Endosulfan I							
1	8.067	8.068	-0.001	237414688	200.0	193.4	
2	9.747	9.746	0.001	251200604	200.0	190.1	
						RPD = 1.74	
16 4,4'-DDE							
1	8.160	8.166	-0.006	253675814	200.0	214.1	
2	10.097	10.096	0.001	268025917	200.0	203.0	
						RPD = 5.34	
17 Dieldrin							
1	8.612	8.614	-0.002	261274932	200.0	199.8	
2	10.257	10.256	0.001	271265368	200.0	198.3	
						RPD = 0.77	
18 Endrin							
1	9.060	9.061	-0.001	229462332	200.0	199.3	
2	10.767	10.768	-0.001	238375035	200.0	197.7	
						RPD = 0.79	
20 4,4'-DDD							
1	9.411	9.415	-0.004	195226651	200.0	224.3	
2	11.082	11.083	-0.001	204139326	200.0	208.6	
						RPD = 7.25	
21 Endosulfan II							
1	9.505	9.507	-0.002	217587968	200.0	188.1	
2	11.134	11.134	0.000	224229146	200.0	191.7	
						RPD = 1.93	
23 4,4'-DDT							
1	9.922	9.924	-0.002	211650515	200.0	221.6	
2	11.565	11.565	0.000	209429423	200.0	209.9	
						RPD = 5.44	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	165370411	200.0	185.6	
2	11.689	11.690	-0.001	173564845	200.0	185.9	
						RPD = 0.12	
27 Methoxychlor							
1	10.867	10.868	-0.001	89522192	200.0	195.4	
2	12.627	12.628	-0.001	95972640	200.0	196.2	
						RPD = 0.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.013	11.015	-0.002	189528753	200.0	190.3	
2	12.110	12.110	0.000	203625762	200.0	192.3	
						RPD = 1.05	
29 Endrin ketone							
1	11.412	11.414	-0.002	228035065	200.0	186.6	
2	12.856	12.856	0.000	238046316	200.0	193.9	
						RPD = 3.81	
$ 30 DCB Decachlorobiphenyl							
1	13.009	13.011	-0.002	169711774	200.0	181.2	
2	14.569	14.570	-0.001	183801612	200.0	180.6	
						RPD = 0.37	

Reagents:

SGPestAB6_00010 Amount Added: 1.00 Units: mL

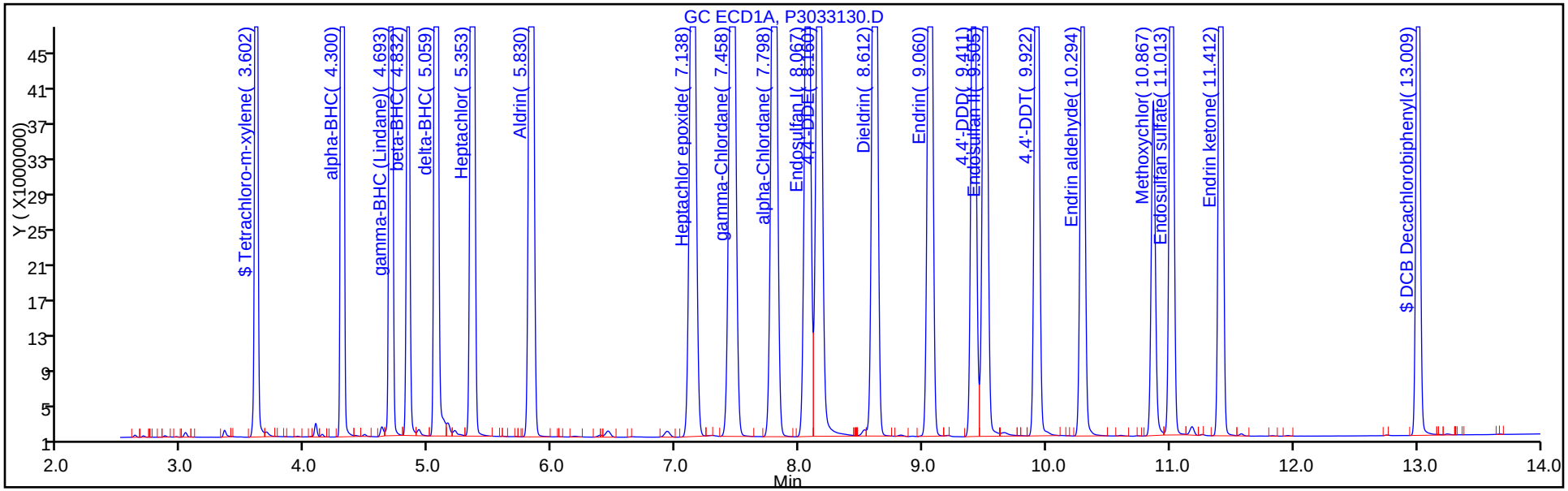
Report Date: 01-Apr-2015 08:58:18 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

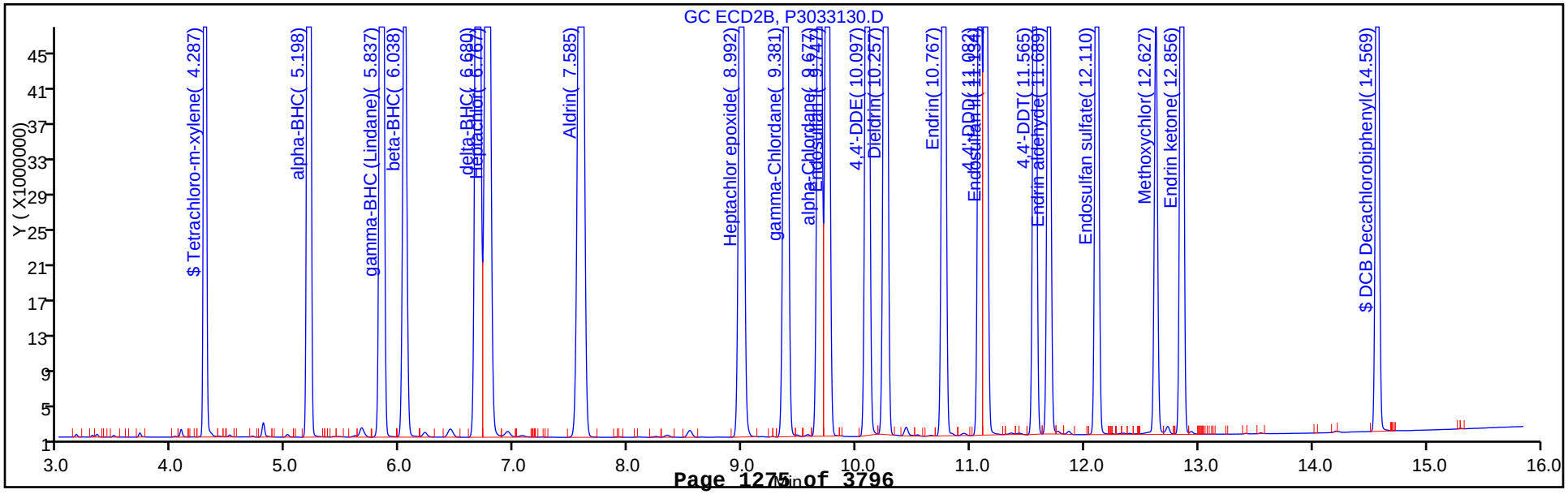
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Injection Date:	31-Mar-2015 22:29:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB6			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	5.198	5.199	5.199	5.198	5.199	5.198					5.168 - 5.228	5.199
gamma-BHC (Lindane)	5.838	5.837	5.837	5.837	5.837	5.837					5.807 - 5.867	5.837
beta-BHC	6.040	6.040	6.040	6.040	6.040	6.038					6.009 - 6.069	6.040
delta-BHC	6.681	6.680	6.681	6.681	6.680	6.680					6.651 - 6.711	6.681
Heptachlor	6.766	6.765	6.765	6.766	6.767	6.767					6.735 - 6.795	6.766
Aldrin	7.586	7.586	7.585	7.586	7.584	7.585					7.553 - 7.613	7.585
Heptachlor epoxide	8.992	8.992	8.992	8.992	8.992	8.992					8.961 - 9.021	8.992
gamma-Chlordane	9.381	9.382	9.381	9.381	9.382	9.381					9.351 - 9.411	9.381
alpha-Chlordane	9.676	9.676	9.676	9.677	9.677	9.677					9.645 - 9.705	9.677
Endosulfan I	9.746	9.746	9.746	9.747	9.747	9.747					9.716 - 9.776	9.747
4,4'-DDE	10.096	10.097	10.096	10.097	10.097	10.097					10.066 - 10.126	10.097
Dieldrin	10.257	10.257	10.256	10.256	10.257	10.257					10.226 - 10.286	10.257
Endrin	10.767	10.768	10.768	10.768	10.767	10.767					10.736 - 10.796	10.768
4,4'-DDD	11.084	11.084	11.083	11.084	11.083	11.082					11.053 - 11.113	11.083
Endosulfan II	11.136	11.135	11.134	11.135	11.134	11.134					11.104 - 11.164	11.135
4,4'-DDT	11.566	11.565	11.565	11.565	11.565	11.565					11.534 - 11.594	11.565
Endrin aldehyde	11.691	11.690	11.690	11.690	11.690	11.689					11.659 - 11.719	11.690
Endosulfan sulfate	12.111	12.111	12.110	12.110	12.110	12.110					12.080 - 12.140	12.110
Methoxychlor	12.629	12.628	12.628	12.628	12.627	12.627					12.596 - 12.656	12.628
Endrin ketone	12.856	12.855	12.856	12.856	12.856	12.856					12.825 - 12.885	12.856
Tetrachloro-m-xylene	4.287	4.286	4.287	4.287	4.287	4.287					4.257 - 4.317	4.287
DCB Decachlorobiphenyl	14.571	14.570	14.570	14.570	14.570	14.569					14.538 - 14.598	14.570

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1839084 2084659	1769962 1972667	2118025	1960851	Ave		1957541.35				6.9		20.0			
gamma-BHC (Lindane)	1708949 1869776	1613972 1769374	1903965	1751047	Ave		1769513.65				6.0		20.0			
beta-BHC	836611 762043	752571 717753	813283	727944	Ave		768367.400				6.1		20.0			
delta-BHC	1652143 1919024	1579206 1819178	1907636	1767760	Ave		1774157.68				7.7		20.0			
Heptachlor	1700555 1760722	1574058 1644309	1838362	1625156	Ave		1690526.98				5.7		20.0			
Aldrin	1674485 1741150	1550399 1653507	1786331	1627303	Ave		1672195.67				5.0		20.0			
Heptachlor epoxide	1483052 1465953	1368987 1366764	1538294	1389504	Ave		1435425.64				4.9		20.0			
gamma-Chlordane	1498987 1528077	1363700 1452527	1556263	1427358	Ave		1471152.06				4.8		20.0			
alpha-Chlordane	1450459 1461191	1332467 1387457	1515974	1374667	Ave		1420369.33				4.7		20.0			
Endosulfan I	1363258 1348980	1260988 1256003	1422722	1277632	Ave		1321597.12				5.1		20.0			
4,4'-DDE	1271067 1401514	1211099 1340130	1410734	1287988	Ave		1320421.76				5.9		20.0			
Dieldrin	1357789 1431526	1273184 1356327	1457976	1331733	Ave		1368089.03				4.9		20.0			
Endrin	1202896 1264369	1114771 1191875	1299004	1160551	Ave		1205577.44				5.6		20.0			
4,4'-DDD	920821 1062879	864879 1020697	1040078	962508	Ave		978643.582				7.8		20.0			
Endosulfan II	1213316 1190197	1111473 1121146	1256533	1123885	Ave		1169424.91				5.1		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	955322 1066483	895918 1047147	1067036	956068	Ave		997995.559				7.2		20.0			
Endrin aldehyde	989198 939140	927007 867824	989609	890397	Ave		933862.428				5.4		20.0			
Endosulfan sulfate	1088559 1076304	1024586 1018129	1133296	1013913	Ave		1059131.09				4.5		20.0			
Methoxychlor	512425 481771	482874 479863	520473	457769	Ave		489195.968				4.7		20.0			
Endrin ketone	1244774 1255411	1180145 1190232	1313335	1183362	Ave		1227876.39				4.3		20.0			
Tetrachloro-m-xylene	1195279 1130347	1085174 1058531	1206688	1086113	Ave		1127022.18				5.5		20.0			
DCB Decachlorobiphenyl	1124812 965388	1051453 919008	1086689	960574	Ave		1017987.24				8.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	9195421 394533340	17699620	52950629	98042560	208465883	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Ave	8544743 353874715	16139715	47599126	87552352	186977616	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	4183054 143550510	7525710	20332064	36397222	76204305	5.00 200	10.0	25.0	50.0	100
delta-BHC	Ave	8260715 363835550	15792059	47690894	88387997	191902373	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	8502776 328861796	15740575	45959059	81257807	176072167	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	8372425 330701385	15503993	44658266	81365132	174114951	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	7415262 273352880	13689871	38457347	69475178	146595251	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	7494937 290505462	13636997	38906572	71367916	152807674	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	7252296 277491300	13324673	37899355	68733372	146119135	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	6816292 251200604	12609879	35568057	63881581	134897952	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Ave	6355333 268025917	12110985	35268356	64399402	140151362	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	6788945 271265368	12731838	36449407	66586628	143152571	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	6014479 238375035	11147706	32475088	58027543	126436870	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Ave	4604106 204139326	8648786	26001941	48125406	106287930	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	6066579 224229146	11114726	31413336	56194228	119019734	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Ave	4776608 209429423	8959182	26675891	47803384	106648312	5.00 200	10.0	25.0	50.0	100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174448

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	4945988 173564845	9270072	24740219	44519851	93913976	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	5442796 203625762	10245858	28332394	50695672	107630350	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	2562127 95972640	4828736	13011833	22888462	48177105	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	6223871 238046316	11801446	32833375	59168122	125541054	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	5976395 211706263	10851740	30167206	54305672	113034706	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	5624059 183801612	10514527	27167237	48028681	96538779	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D
Lims ID: STD AB1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 20:34:34 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-025
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:02 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.602	0.003	4995293	5.00	5.08	
2	4.287	4.287	0.000	5976395	5.00	5.30	
						RPD = 4.31	
4 alpha-BHC							
1	4.301	4.300	0.001	7993281	5.00	4.62	
2	5.198	5.198	0.000	9195421	5.00	4.70	
						RPD = 1.76	
5 gamma-BHC (Lindane)							
1	4.695	4.693	0.002	7220829	5.00	4.68	
2	5.838	5.837	0.001	8544743	5.00	4.83	
						RPD = 3.18	
6 beta-BHC							
1	4.836	4.834	0.002	3244596	5.00	5.15	
2	6.040	6.039	0.001	4183054	5.00	5.44	
						RPD = 5.52	
7 delta-BHC							
1	5.063	5.060	0.003	6674668	5.00	4.44	
2	6.681	6.681	0.000	8260715	5.00	4.66	
						RPD = 4.72	
9 Heptachlor							
1	5.356	5.354	0.002	7096274	5.00	4.86	
2	6.766	6.765	0.001	8502776	5.00	5.03	
						RPD = 3.37	
10 Aldrin							
1	5.833	5.831	0.002	7112948	5.00	4.87	
2	7.586	7.583	0.003	8372425	5.00	5.01	
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.137	0.004	6618040	5.00	5.08	
2	8.992	8.991	0.001	7415262	5.00	5.17	
						RPD = 1.76	
13 gamma-Chlordane							
1	7.461	7.459	0.002	6596391	5.00	4.88	
2	9.381	9.381	0.000	7494937	5.00	5.09	
						RPD = 4.22	
14 alpha-Chlordane							
1	7.801	7.798	0.003	6662099	5.00	4.98	
2	9.676	9.675	0.001	7252296	5.00	5.11	
						RPD = 2.48	
15 Endosulfan I							
1	8.070	8.069	0.001	6162836	5.00	5.02	
2	9.746	9.746	0.000	6816292	5.00	5.16	
						RPD = 2.69	
16 4,4'-DDE							
1	8.167	8.162	0.005	5340605	5.00	4.51	
2	10.096	10.096	0.000	6355333	5.00	4.81	
						RPD = 6.55	
17 Dieldrin							
1	8.614	8.612	0.002	6192051	5.00	4.74	
2	10.257	10.256	0.001	6788945	5.00	4.96	
						RPD = 4.68	
18 Endrin							
1	9.062	9.061	0.001	5504203	5.00	4.78	
2	10.767	10.766	0.001	6014479	5.00	4.99	
						RPD = 4.27	
20 4,4'-DDD							
1	9.421	9.413	0.008	3660954	5.00	4.21	
2	11.084	11.083	0.001	4604106	5.00	4.70	
						RPD = 11.19	
21 Endosulfan II							
1	9.507	9.505	0.002	5894190	5.00	5.09	
2	11.136	11.134	0.002	6066579	5.00	5.19	
						RPD = 1.81	
23 4,4'-DDT							
1	9.927	9.924	0.003	4190259	5.00	4.39	
2	11.566	11.564	0.002	4776608	5.00	4.79	
						RPD = 8.71	
25 Endrin aldehyde							
1	10.296	10.292	0.004	4594432	5.00	5.16	
2	11.691	11.689	0.002	4945988	5.00	5.30	
						RPD = 2.66	
27 Methoxychlor							
1	10.872	10.866	0.006	2347056	5.00	5.12	
2	12.629	12.626	0.003	2562127	5.00	5.24	
						RPD = 2.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.016	11.014	0.002	5085300	5.00	5.10	
2	12.111	12.110	0.001	5442796	5.00	5.14	
						RPD = 0.67	
29 Endrin ketone							
1	11.415	11.412	0.003	6229218	5.00	5.10	
2	12.856	12.855	0.001	6223871	5.00	5.07	
						RPD = 0.57	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.009	0.002	5262952	5.00	5.62	
2	14.571	14.568	0.003	5624059	5.00	5.52	
						RPD = 1.71	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

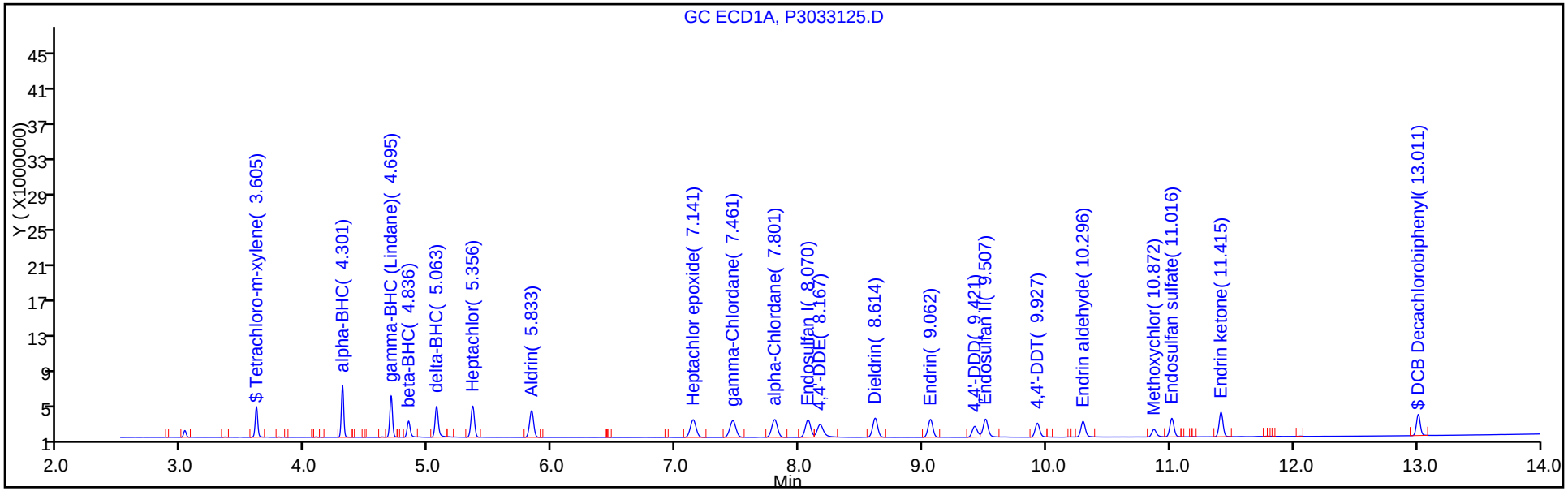
Report Date: 01-Apr-2015 08:58:04 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

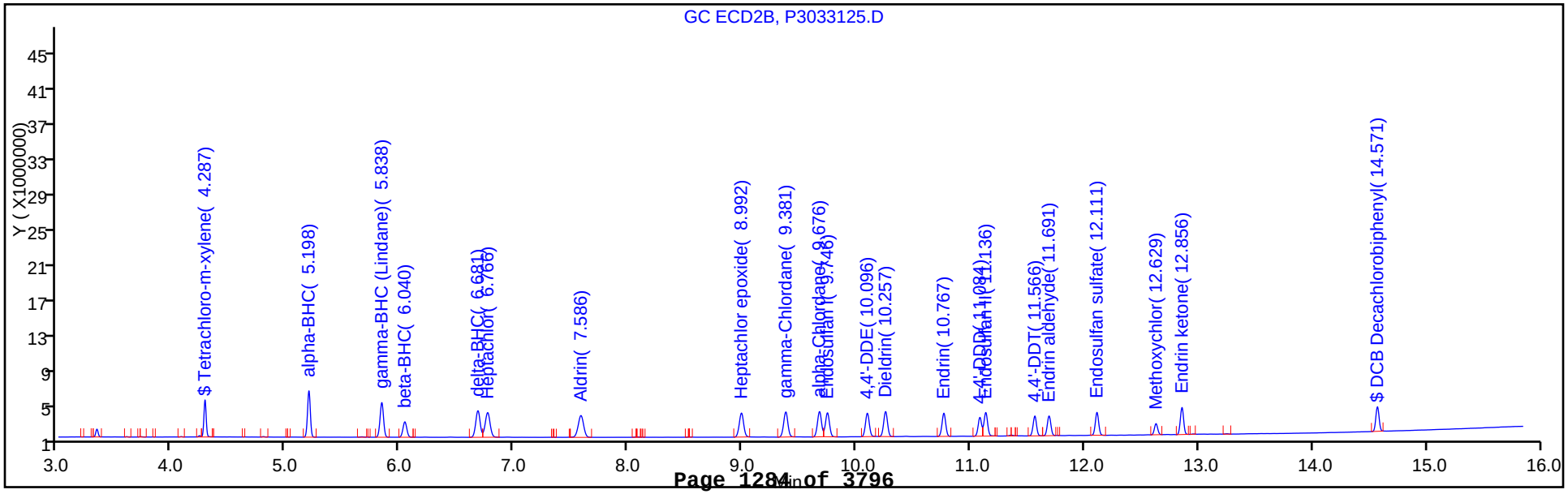
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D

Injection Date:	31-Mar-2015 20:34:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D
Lims ID: STD AB2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 20:57:32 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-026
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:06 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	9242851	10.0	9.40	
2	4.286	4.287	-0.001	10851740	10.0	9.63	
						RPD = 2.43	
4 alpha-BHC							
1	4.300	4.300	0.000	15427617	10.0	8.91	
2	5.199	5.198	0.001	17699620	10.0	9.04	
						RPD = 1.49	
5 gamma-BHC (Lindane)							
1	4.694	4.693	0.001	13921250	10.0	9.02	
2	5.837	5.837	0.000	16139715	10.0	9.12	
						RPD = 1.14	
6 beta-BHC							
1	4.835	4.834	0.001	6034059	10.0	9.58	
2	6.040	6.039	0.001	7525710	10.0	9.79	
						RPD = 2.21	
7 delta-BHC							
1	5.062	5.060	0.002	12658880	10.0	8.42	
2	6.680	6.681	-0.001	15792059	10.0	8.90	
						RPD = 5.52	
9 Heptachlor							
1	5.354	5.354	0.000	13288516	10.0	9.11	
2	6.765	6.765	0.000	15740575	10.0	9.31	
						RPD = 2.22	
10 Aldrin							
1	5.831	5.831	0.000	13417843	10.0	9.18	
2	7.586	7.583	0.003	15503993	10.0	9.27	
						RPD = 1.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.140	7.137	0.003	12187185	10.0	9.35	
2	8.992	8.991	0.001	13689871	10.0	9.54	
						RPD = 2.01	
13 gamma-Chlordane							
1	7.460	7.459	0.001	12348664	10.0	9.14	
2	9.382	9.381	0.001	13636997	10.0	9.27	
						RPD = 1.38	
14 alpha-Chlordane							
1	7.798	7.798	0.000	12407456	10.0	9.28	
2	9.676	9.675	0.001	13324673	10.0	9.38	
						RPD = 1.13	
15 Endosulfan I							
1	8.070	8.069	0.001	11542395	10.0	9.40	
2	9.746	9.746	0.000	12609879	10.0	9.54	
						RPD = 1.46	
16 4,4'-DDE							
1	8.166	8.162	0.004	10590255	10.0	8.94	
2	10.097	10.096	0.001	12110985	10.0	9.17	
						RPD = 2.57	
17 Dieldrin							
1	8.615	8.612	0.003	12034701	10.0	9.20	
2	10.257	10.256	0.001	12731838	10.0	9.31	
						RPD = 1.11	
18 Endrin							
1	9.061	9.061	0.000	10542835	10.0	9.16	
2	10.768	10.766	0.002	11147706	10.0	9.25	
						RPD = 0.98	
20 4,4'-DDD							
1	9.416	9.413	0.003	7262139	10.0	8.34	
2	11.084	11.083	0.001	8648786	10.0	8.84	
						RPD = 5.75	
21 Endosulfan II							
1	9.508	9.505	0.003	11094415	10.0	9.59	
2	11.135	11.134	0.001	11114726	10.0	9.50	
						RPD = 0.89	
23 4,4'-DDT							
1	9.925	9.924	0.001	7882323	10.0	8.25	
2	11.565	11.564	0.001	8959182	10.0	8.98	
						RPD = 8.42	
25 Endrin aldehyde							
1	10.296	10.292	0.004	8693339	10.0	9.76	
2	11.690	11.689	0.001	9270072	10.0	9.93	
						RPD = 1.71	
27 Methoxychlor							
1	10.869	10.866	0.003	4388568	10.0	9.58	
2	12.628	12.626	0.002	4828736	10.0	9.87	
						RPD = 3.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.014	0.001	9609001	10.0	9.65	
2	12.111	12.110	0.001	10245858	10.0	9.67	
						RPD = 0.29	
29 Endrin ketone							
1	11.414	11.412	0.002	11896793	10.0	9.74	
2	12.855	12.855	0.000	11801446	10.0	9.61	
						RPD = 1.29	
$ 30 DCB Decachlorobiphenyl							
1	13.010	13.009	0.001	9611764	10.0	10.3	
2	14.570	14.568	0.002	10514527	10.0	10.3	
						RPD = 0.63	

Reagents:

SGPestAB2_00009 Amount Added: 1.00 Units: mL

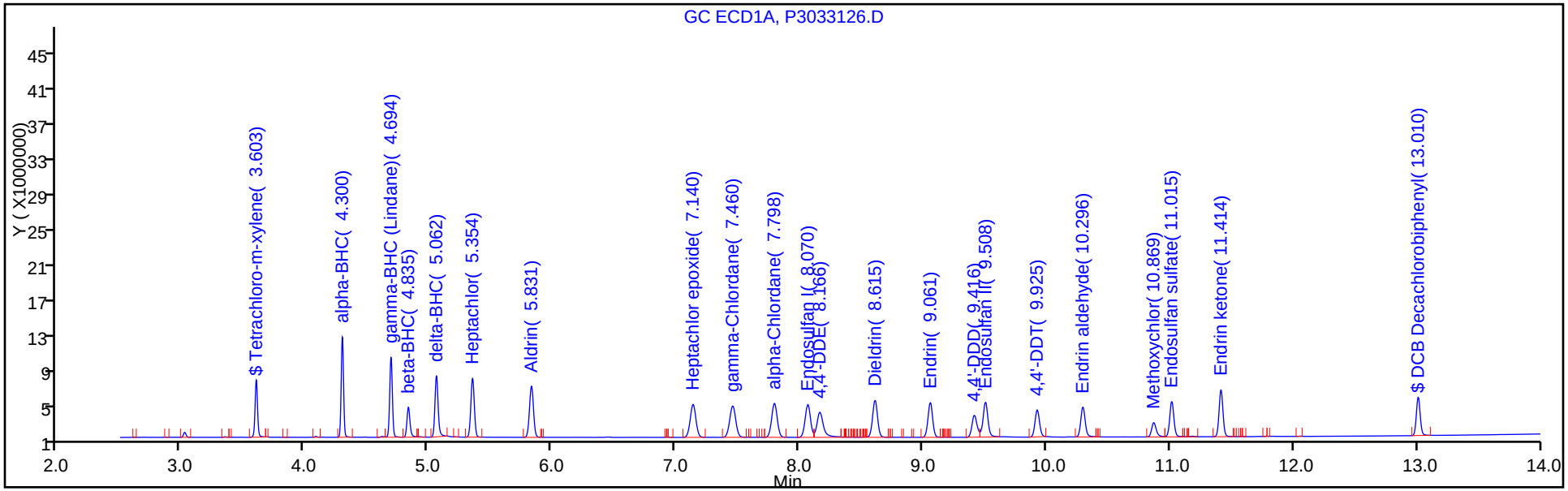
Report Date: 01-Apr-2015 08:58:07 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

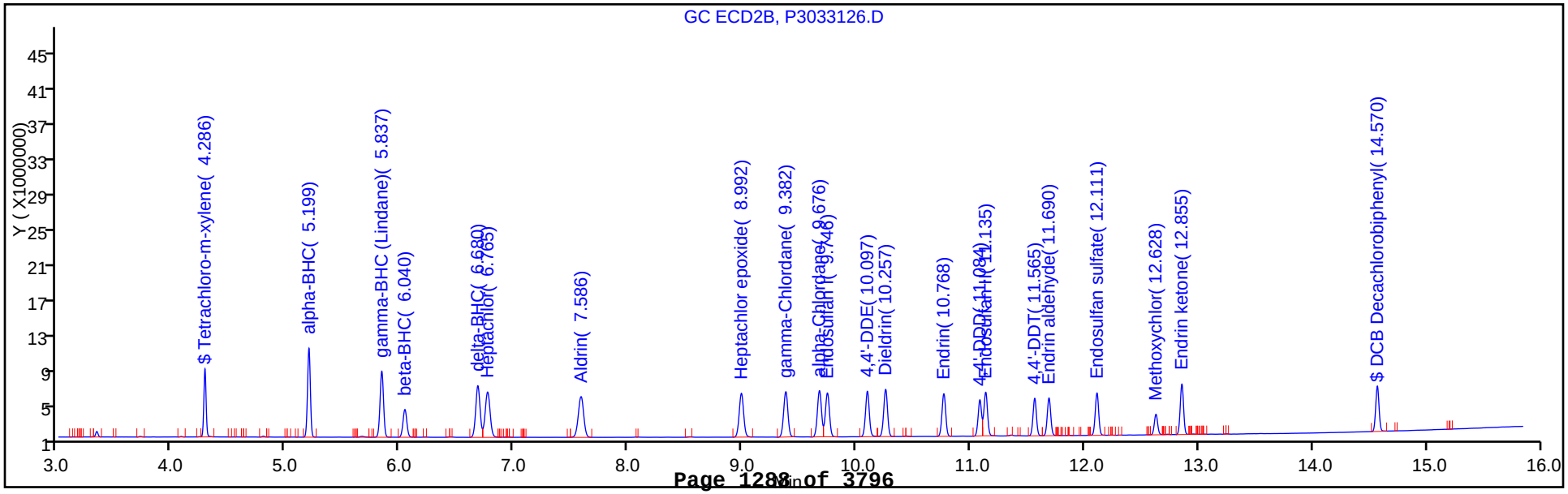
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D

Injection Date:	31-Mar-2015 20:57:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB2			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D
Lims ID: STD AB3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 21:20:40 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:08 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	26443978	25.0	26.9	
2	4.287	4.287	0.000	30167206	25.0	26.8	
						RPD = 0.45	
4 alpha-BHC							
1	4.301	4.301	0.000	46769971	25.0	27.0	
2	5.199	5.199	0.000	52950629	25.0	27.0	
						RPD = 0.16	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	41574049	25.0	26.9	
2	5.837	5.837	0.000	47599126	25.0	26.9	
						RPD = 0.12	
6 beta-BHC							
1	4.835	4.835	0.000	16707890	25.0	26.5	
2	6.040	6.040	0.000	20332064	25.0	26.5	
						RPD = 0.25	
7 delta-BHC							
1	5.062	5.062	0.000	40613949	25.0	27.0	
2	6.681	6.681	0.000	47690894	25.0	26.9	
						RPD = 0.53	
9 Heptachlor							
1	5.356	5.356	0.000	39866687	25.0	27.3	
2	6.765	6.765	0.000	45959059	25.0	27.2	
						RPD = 0.49	
10 Aldrin							
1	5.833	5.833	0.000	39246951	25.0	26.8	
2	7.585	7.585	0.000	44658266	25.0	26.7	
						RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	34880799	25.0	26.8	
2	8.992	8.992	0.000	38457347	25.0	26.8	
						RPD = 0.15	
13 gamma-Chlordane							
1	7.462	7.462	0.000	35610001	25.0	26.4	
2	9.381	9.381	0.000	38906572	25.0	26.4	
						RPD = 0.31	
14 alpha-Chlordane							
1	7.799	7.799	0.000	35400064	25.0	26.5	
2	9.676	9.676	0.000	37899355	25.0	26.7	
						RPD = 0.82	
15 Endosulfan I							
1	8.068	8.068	0.000	32910197	25.0	26.8	
2	9.746	9.746	0.000	35568057	25.0	26.9	
						RPD = 0.38	
16 4,4'-DDE							
1	8.166	8.166	0.000	31051315	25.0	26.2	
2	10.096	10.096	0.000	35268356	25.0	26.7	
						RPD = 1.89	
17 Dieldrin							
1	8.614	8.614	0.000	35178081	25.0	26.9	
2	10.256	10.256	0.000	36449407	25.0	26.6	
						RPD = 0.97	
18 Endrin							
1	9.061	9.061	0.000	31270972	25.0	27.2	
2	10.768	10.768	0.000	32475088	25.0	26.9	
						RPD = 0.82	
20 4,4'-DDD							
1	9.415	9.415	0.000	23004544	25.0	26.4	
2	11.083	11.083	0.000	26001941	25.0	26.6	
						RPD = 0.53	
21 Endosulfan II							
1	9.507	9.507	0.000	31740081	25.0	27.4	
2	11.134	11.134	0.000	31413336	25.0	26.9	
						RPD = 2.11	
23 4,4'-DDT							
1	9.924	9.924	0.000	25760449	25.0	27.0	
2	11.565	11.565	0.000	26675891	25.0	26.7	
						RPD = 0.89	
25 Endrin aldehyde							
1	10.296	10.296	0.000	24069870	25.0	27.0	
2	11.690	11.690	0.000	24740219	25.0	26.5	
						RPD = 1.97	
27 Methoxychlor							
1	10.868	10.868	0.000	12278595	25.0	26.8	
2	12.628	12.628	0.000	13011833	25.0	26.6	
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	26620156	25.0	26.7	
2	12.110	12.110	0.000	28332394	25.0	26.8	
						RPD = 0.11	
29 Endrin ketone							
1	11.414	11.414	0.000	33202430	25.0	27.2	
2	12.856	12.856	0.000	32833375	25.0	26.7	
						RPD = 1.60	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	24799770	25.0	26.5	
2	14.570	14.570	0.000	27167237	25.0	26.7	
						RPD = 0.77	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

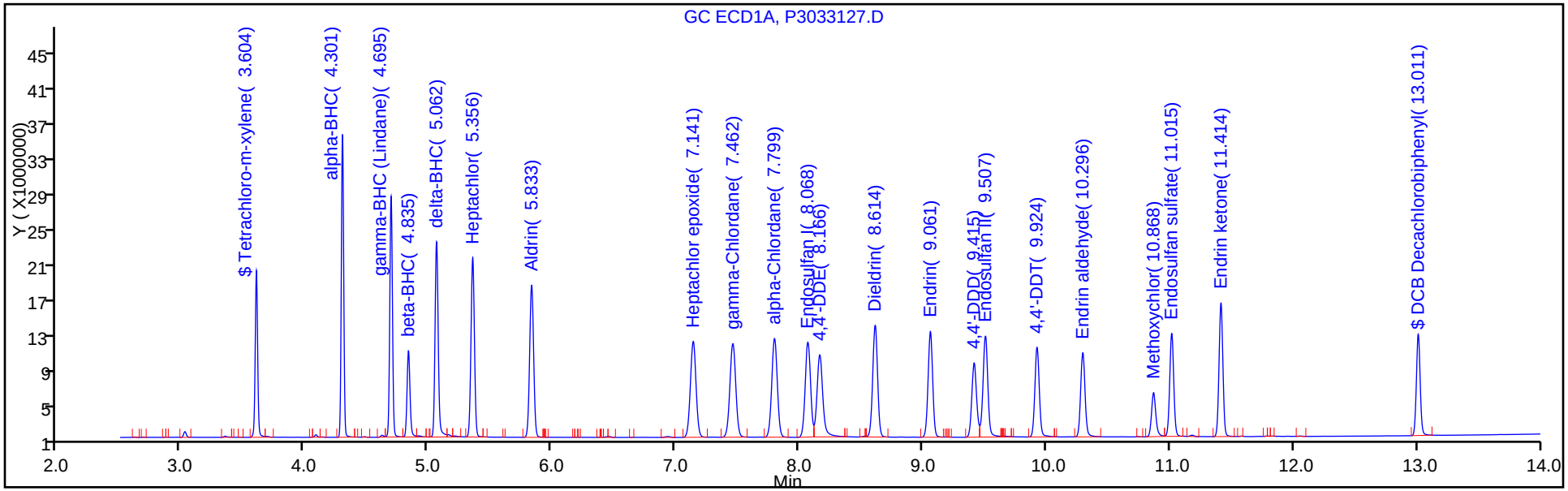
Report Date: 01-Apr-2015 08:58:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

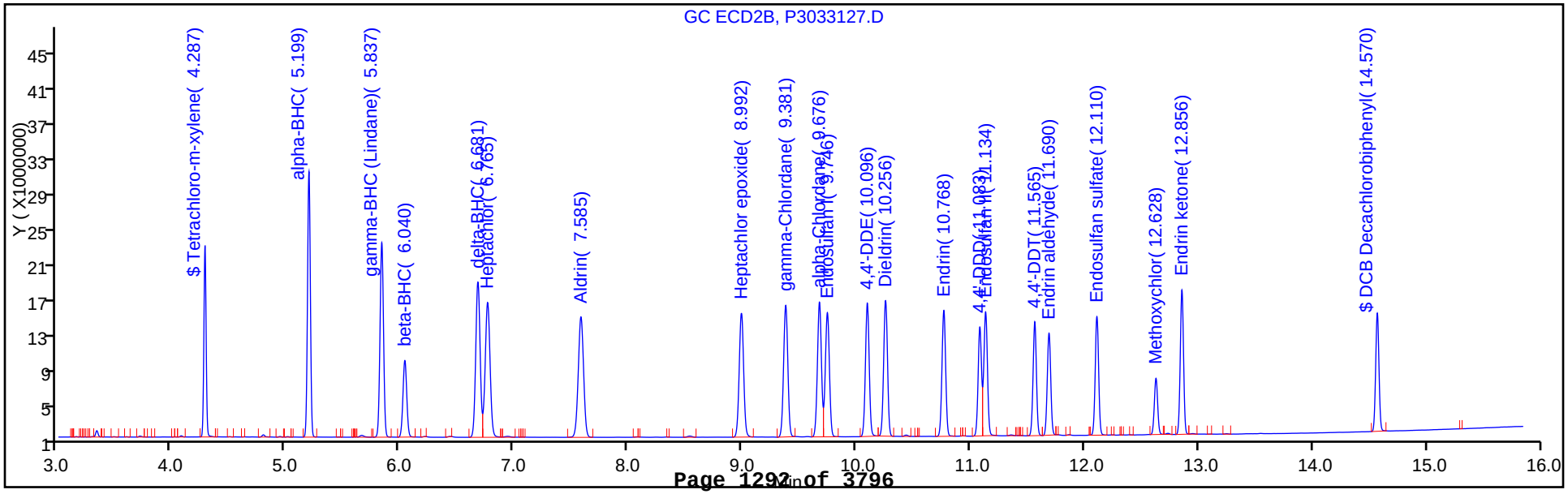
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D

Injection Date:	31-Mar-2015 21:20:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D
Lims ID: STD AB4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 21:44:03 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-028
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:11 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:49:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.604	0.001	48104246	50.0	48.9	
2	4.287	4.287	0.000	54305672	50.0	48.2	
						RPD = 1.49	
4 alpha-BHC							
1	4.302	4.301	0.001	87097467	50.0	50.3	
2	5.198	5.199	-0.001	98042560	50.0	50.1	
						RPD = 0.41	
5 gamma-BHC (Lindane)							
1	4.696	4.695	0.001	77025264	50.0	49.9	
2	5.837	5.837	0.000	87552352	50.0	49.5	
						RPD = 0.84	
6 beta-BHC							
1	4.836	4.835	0.001	30165006	50.0	47.9	
2	6.040	6.040	0.000	36397222	50.0	47.4	
						RPD = 1.10	
7 delta-BHC							
1	5.063	5.062	0.001	76319253	50.0	50.8	
2	6.681	6.681	0.000	88387997	50.0	49.8	
						RPD = 1.92	
9 Heptachlor							
1	5.356	5.356	0.000	71639995	50.0	49.1	
2	6.766	6.765	0.001	81257807	50.0	48.1	
						RPD = 2.12	
10 Aldrin							
1	5.833	5.833	0.000	72119434	50.0	49.3	
2	7.586	7.585	0.001	81365132	50.0	48.7	
						RPD = 1.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.142	7.141	0.001	63557048	50.0	48.7	
2	8.992	8.992	0.000	69475178	50.0	48.4	
						RPD = 0.71	
13 gamma-Chlordane							
1	7.462	7.462	0.000	65792126	50.0	48.7	
2	9.381	9.381	0.000	71367916	50.0	48.5	
						RPD = 0.41	
14 alpha-Chlordane							
1	7.802	7.799	0.003	64927892	50.0	48.5	
2	9.677	9.676	0.001	68733372	50.0	48.4	
						RPD = 0.31	
15 Endosulfan I							
1	8.071	8.068	0.003	59799863	50.0	48.7	
2	9.747	9.746	0.001	63881581	50.0	48.3	
						RPD = 0.78	
16 4,4'-DDE							
1	8.166	8.166	0.000	58240006	50.0	49.2	
2	10.097	10.096	0.001	64399402	50.0	48.8	
						RPD = 0.79	
17 Dieldrin							
1	8.614	8.614	0.000	64687313	50.0	49.5	
2	10.256	10.256	0.000	66586628	50.0	48.7	
						RPD = 1.63	
18 Endrin							
1	9.061	9.061	0.000	56346911	50.0	48.9	
2	10.768	10.768	0.000	58027543	50.0	48.1	
						RPD = 1.66	
20 4,4'-DDD							
1	9.415	9.415	0.000	43621651	50.0	50.1	
2	11.084	11.083	0.001	48125406	50.0	49.2	
						RPD = 1.89	
21 Endosulfan II							
1	9.506	9.507	-0.001	55470808	50.0	47.9	
2	11.135	11.134	0.001	56194228	50.0	48.1	
						RPD = 0.22	
23 4,4'-DDT							
1	9.926	9.924	0.002	47063249	50.0	49.3	
2	11.565	11.565	0.000	47803384	50.0	47.9	
						RPD = 2.82	
25 Endrin aldehyde							
1	10.295	10.296	-0.001	42997118	50.0	48.3	
2	11.690	11.690	0.000	44519851	50.0	47.7	
						RPD = 1.24	
27 Methoxychlor							
1	10.869	10.868	0.001	21881225	50.0	47.8	
2	12.628	12.628	0.000	22888462	50.0	46.8	
						RPD = 2.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	48166927	50.0	48.4	
2	12.110	12.110	0.000	50695672	50.0	47.9	
						RPD = 1.01	
29 Endrin ketone							
1	11.415	11.414	0.001	59593571	50.0	48.8	
2	12.856	12.856	0.000	59168122	50.0	48.2	
						RPD = 1.20	
$ 30 DCB Decachlorobiphenyl							
1	13.012	13.011	0.001	44087885	50.0	47.1	
2	14.570	14.570	0.000	48028681	50.0	47.2	
						RPD = 0.21	

Reagents:

SGPestAB4_00009 Amount Added: 1.00 Units: mL

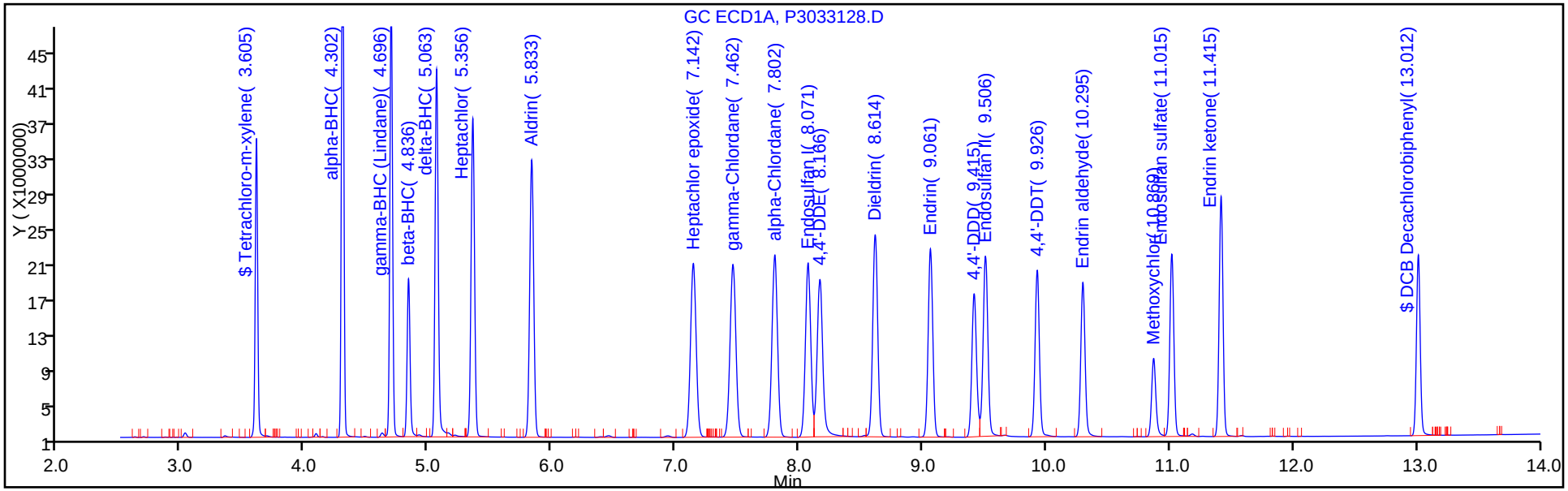
Report Date: 01-Apr-2015 08:58:13 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

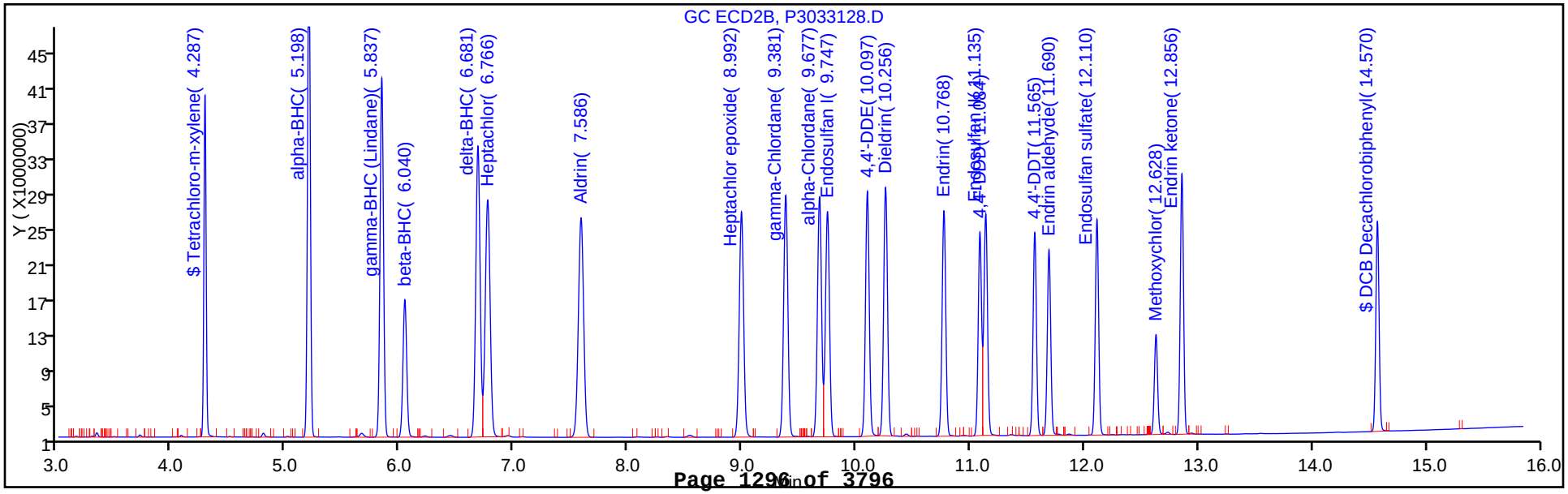
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D

Injection Date:	31-Mar-2015 21:44:03	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D
Lims ID: STD AB5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 22:07:14 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-029
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:14 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	100979372	100.0	102.7	
2	4.287	4.287	0.000	113034706	100.0	100.3	
						RPD = 2.34	
4 alpha-BHC							
1	4.301	4.301	0.000	186273224	100.0	107.6	
2	5.199	5.199	0.000	208465883	100.0	106.5	
						RPD = 0.99	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	165062455	100.0	106.9	
2	5.837	5.837	0.000	186977616	100.0	105.7	
						RPD = 1.18	
6 beta-BHC							
1	4.835	4.835	0.000	64356210	100.0	102.2	
2	6.040	6.040	0.000	76204305	100.0	99.2	
						RPD = 2.98	
7 delta-BHC							
1	5.062	5.062	0.000	166925543	100.0	111.1	
2	6.680	6.681	-0.001	191902373	100.0	108.2	
						RPD = 2.65	
9 Heptachlor							
1	5.356	5.356	0.000	153930697	100.0	105.5	
2	6.767	6.765	0.002	176072167	100.0	104.2	
						RPD = 1.27	
10 Aldrin							
1	5.832	5.833	-0.001	153527177	100.0	105.0	
2	7.584	7.585	-0.001	174114951	100.0	104.1	
						RPD = 0.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	135595093	100.0	104.0	
2	8.992	8.992	0.000	146595251	100.0	102.1	
						RPD = 1.81	
13 gamma-Chlordane							
1	7.461	7.462	-0.001	143604158	100.0	106.3	
2	9.382	9.381	0.001	152807674	100.0	103.9	
						RPD = 2.34	
14 alpha-Chlordane							
1	7.801	7.799	0.002	140414073	100.0	105.0	
2	9.677	9.676	0.001	146119135	100.0	102.9	
						RPD = 2.02	
15 Endosulfan I							
1	8.071	8.068	0.003	127882954	100.0	104.2	
2	9.747	9.746	0.001	134897952	100.0	102.1	
						RPD = 2.04	
16 4,4'-DDE							
1	8.164	8.166	-0.002	130568170	100.0	110.2	
2	10.097	10.096	0.001	140151362	100.0	106.1	
						RPD = 3.76	
17 Dieldrin							
1	8.613	8.614	-0.001	139644483	100.0	106.8	
2	10.257	10.256	0.001	143152571	100.0	104.6	
						RPD = 2.04	
18 Endrin							
1	9.061	9.061	0.000	122810215	100.0	106.7	
2	10.767	10.768	-0.001	126436870	100.0	104.9	
						RPD = 1.69	
20 4,4'-DDD							
1	9.412	9.415	-0.003	99534574	100.0	114.4	
2	11.083	11.083	0.000	106287930	100.0	108.6	
						RPD = 5.15	
21 Endosulfan II							
1	9.507	9.507	0.000	118613675	100.0	102.5	
2	11.134	11.134	0.000	119019734	100.0	101.8	
						RPD = 0.74	
23 4,4'-DDT							
1	9.925	9.924	0.001	107496871	100.0	112.5	
2	11.565	11.565	0.000	106648312	100.0	106.9	
						RPD = 5.17	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	90722188	100.0	101.8	
2	11.690	11.690	0.000	93913976	100.0	100.6	
						RPD = 1.26	
27 Methoxychlor							
1	10.867	10.868	-0.001	46472336	100.0	101.4	
2	12.627	12.628	-0.001	48177105	100.0	98.5	
						RPD = 2.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	102341419	100.0	102.7	
2	12.110	12.110	0.000	107630350	100.0	101.6	
						RPD = 1.09	
29 Endrin ketone							
1	11.414	11.414	0.000	123621579	100.0	101.2	
2	12.856	12.856	0.000	125541054	100.0	102.2	
						RPD = 1.06	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	88266403	100.0	94.3	
2	14.570	14.570	0.000	96538779	100.0	94.8	
						RPD = 0.61	

Reagents:

SGPestAB5_00009 Amount Added: 1.00 Units: mL

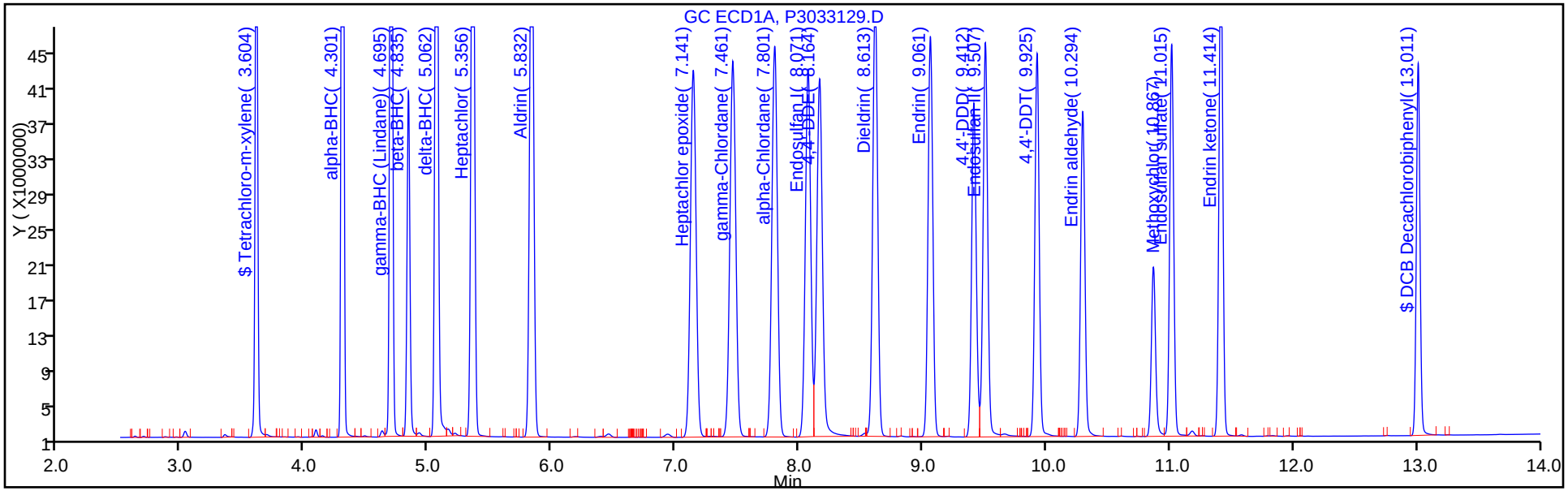
Report Date: 01-Apr-2015 08:58:16 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

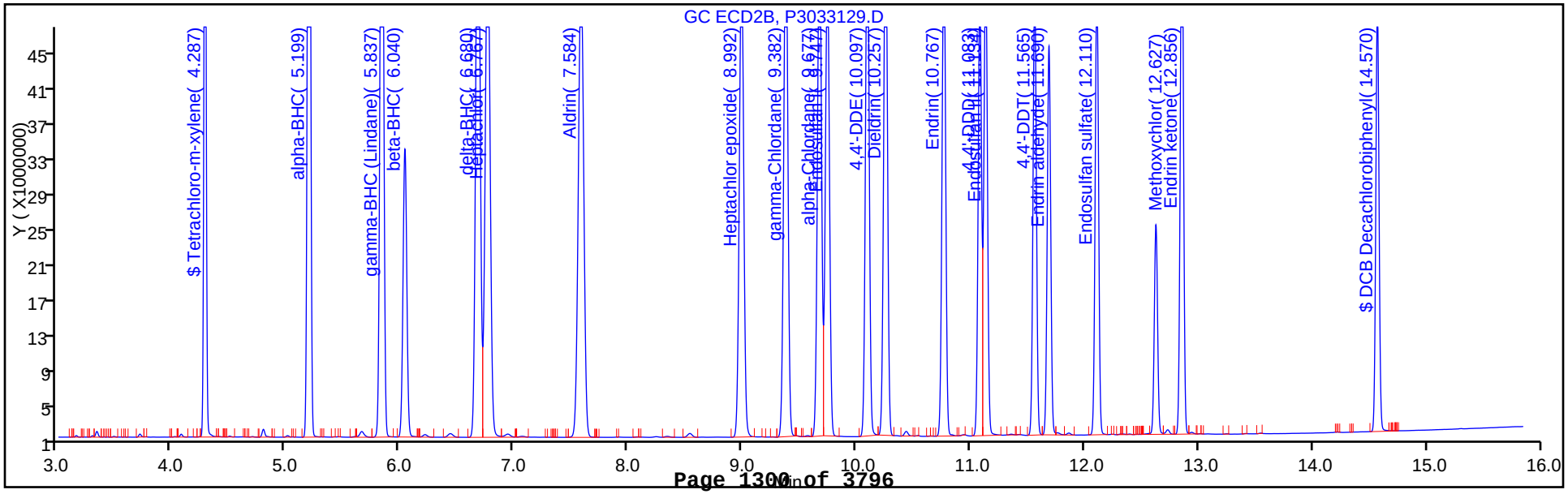
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D

Injection Date:	31-Mar-2015 22:07:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB5			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D
Lims ID: STD AB6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Mar-2015 22:29:58 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-030
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:17 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.602	3.604	-0.002	189637291	200.0	192.8	
2	4.287	4.287	0.000	211706263	200.0	187.8	
						RPD = 2.61	
4 alpha-BHC							
1	4.300	4.301	-0.001	354825181	200.0	204.9	
2	5.198	5.199	-0.001	394533340	200.0	201.5	
						RPD = 1.64	
5 gamma-BHC (Lindane)							
1	4.693	4.695	-0.002	314410933	200.0	203.7	
2	5.837	5.837	0.000	353874715	200.0	200.0	
						RPD = 1.83	
6 beta-BHC							
1	4.832	4.835	-0.003	122309456	200.0	194.2	
2	6.038	6.040	-0.002	143550510	200.0	186.8	
						RPD = 3.87	
7 delta-BHC							
1	5.059	5.062	-0.003	319192463	200.0	212.4	
2	6.680	6.681	-0.001	363835550	200.0	205.1	
						RPD = 3.51	
9 Heptachlor							
1	5.353	5.356	-0.003	288091249	200.0	197.4	
2	6.767	6.765	0.002	328861796	200.0	194.5	
						RPD = 1.48	
10 Aldrin							
1	5.830	5.833	-0.003	291883438	200.0	199.7	
2	7.585	7.585	0.000	330701385	200.0	197.8	
						RPD = 0.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.138	7.141	-0.003	251715160	200.0	193.1	
2	8.992	8.992	0.000	273352880	200.0	190.4	
						RPD = 1.37	
13 gamma-Chlordane							
1	7.458	7.462	-0.004	274668690	200.0	203.4	
2	9.381	9.381	0.000	290505462	200.0	197.5	
						RPD = 2.94	
14 alpha-Chlordane							
1	7.798	7.799	-0.001	266757855	200.0	199.4	
2	9.677	9.676	0.001	277491300	200.0	195.4	
						RPD = 2.06	
15 Endosulfan I							
1	8.067	8.068	-0.001	237414688	200.0	193.4	
2	9.747	9.746	0.001	251200604	200.0	190.1	
						RPD = 1.74	
16 4,4'-DDE							
1	8.160	8.166	-0.006	253675814	200.0	214.1	
2	10.097	10.096	0.001	268025917	200.0	203.0	
						RPD = 5.34	
17 Dieldrin							
1	8.612	8.614	-0.002	261274932	200.0	199.8	
2	10.257	10.256	0.001	271265368	200.0	198.3	
						RPD = 0.77	
18 Endrin							
1	9.060	9.061	-0.001	229462332	200.0	199.3	
2	10.767	10.768	-0.001	238375035	200.0	197.7	
						RPD = 0.79	
20 4,4'-DDD							
1	9.411	9.415	-0.004	195226651	200.0	224.3	
2	11.082	11.083	-0.001	204139326	200.0	208.6	
						RPD = 7.25	
21 Endosulfan II							
1	9.505	9.507	-0.002	217587968	200.0	188.1	
2	11.134	11.134	0.000	224229146	200.0	191.7	
						RPD = 1.93	
23 4,4'-DDT							
1	9.922	9.924	-0.002	211650515	200.0	221.6	
2	11.565	11.565	0.000	209429423	200.0	209.9	
						RPD = 5.44	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	165370411	200.0	185.6	
2	11.689	11.690	-0.001	173564845	200.0	185.9	
						RPD = 0.12	
27 Methoxychlor							
1	10.867	10.868	-0.001	89522192	200.0	195.4	
2	12.627	12.628	-0.001	95972640	200.0	196.2	
						RPD = 0.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.013	11.015	-0.002	189528753	200.0	190.3	
2	12.110	12.110	0.000	203625762	200.0	192.3	
						RPD = 1.05	
29 Endrin ketone							
1	11.412	11.414	-0.002	228035065	200.0	186.6	
2	12.856	12.856	0.000	238046316	200.0	193.9	
						RPD = 3.81	
$ 30 DCB Decachlorobiphenyl							
1	13.009	13.011	-0.002	169711774	200.0	181.2	
2	14.569	14.570	-0.001	183801612	200.0	180.6	
						RPD = 0.37	

Reagents:

SGPestAB6_00010 Amount Added: 1.00 Units: mL

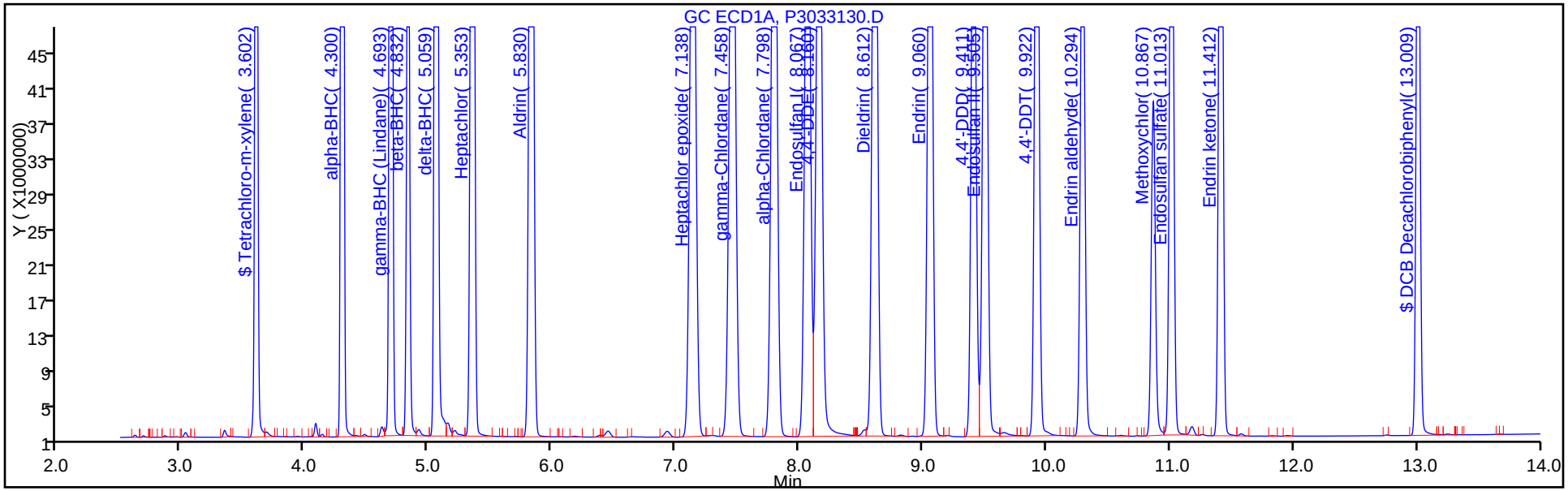
Report Date: 01-Apr-2015 08:58:19 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

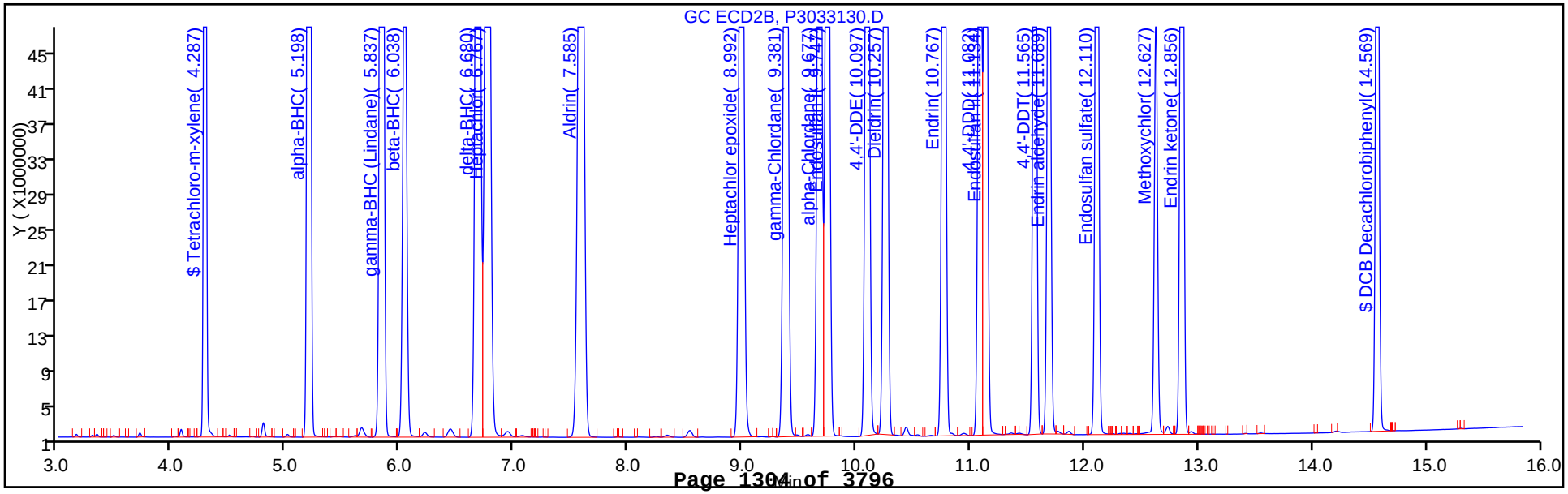
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Injection Date:	31-Mar-2015 22:29:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB6			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (2): PEM 240-174448/24 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 03/31/2015 20:11

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.60	100.0
alpha-BHC	4.30	100.0
gamma-BHC (Lindane)	4.69	100.0
beta-BHC	4.84	100.0
4,4'-DDE	8.18	100.0
Endrin	9.06	100.0
4,4'-DDD	9.42	100.0
4,4'-DDT	9.92	100.0
Endrin aldehyde	10.30	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): PEM 240-174448/24 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 03/31/2015 20:11

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.29	100.0
alpha-BHC	5.20	100.0
gamma-BHC (Lindane)	5.84	100.0
beta-BHC	6.04	100.0
4,4'-DDE	10.10	100.0
Endrin	10.77	100.0
4,4'-DDD	11.09	100.0
4,4'-DDT	11.57	100.0
Endrin aldehyde	11.69	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (2): PEM 240-176694/5 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/16/2015 15:14

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.56	100.0
alpha-BHC	4.26	100.0
gamma-BHC (Lindane)	4.64	100.0
beta-BHC	4.78	100.0
4,4'-DDE	8.08	100.0
Endrin	8.97	100.0
4,4'-DDD	9.33	100.0
4,4'-DDT	9.84	100.0
Endrin aldehyde	10.22	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): PEM 240-176694/5 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/16/2015 15:14

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.24	100.0
alpha-BHC	5.13	100.0
gamma-BHC (Lindane)	5.76	100.0
beta-BHC	5.96	100.0
4,4'-DDE	10.02	100.0
Endrin	10.69	100.0
4,4'-DDD	11.01	100.0
4,4'-DDT	11.49	100.0
Endrin aldehyde	11.61	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (2): PEM 240-177258/27 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/21/2015 22:49

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.55	100.0
alpha-BHC	4.25	100.0
gamma-BHC (Lindane)	4.63	100.0
beta-BHC	4.77	100.0
4,4'-DDE	8.05	100.0
Endrin	8.96	100.0
4,4'-DDD	9.32	100.0
4,4'-DDT	9.83	100.0
Endrin aldehyde	10.21	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): PEM 240-177258/27 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/21/2015 22:49

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.24	100.0
alpha-BHC	5.13	100.0
gamma-BHC (Lindane)	5.75	100.0
beta-BHC	5.95	100.0
4,4'-DDE	10.01	100.0
Endrin	10.68	100.0
4,4'-DDD	11.01	100.0
4,4'-DDT	11.49	100.0
Endrin aldehyde	11.61	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (2): PEM 240-178086/5 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/27/2015 12:17

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.56	100.0
alpha-BHC	4.25	100.0
gamma-BHC (Lindane)	4.64	100.0
beta-BHC	4.78	100.0
4,4'-DDE	8.07	100.0
Endrin	8.96	100.0
4,4'-DDD	9.32	100.0
4,4'-DDT	9.83	100.0
Endrin aldehyde	10.21	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): PEM 240-178086/5 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/27/2015 12:17

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.23	100.0
alpha-BHC	5.12	100.0
gamma-BHC (Lindane)	5.74	100.0
beta-BHC	5.94	100.0
4,4'-DDE	10.00	100.0
Endrin	10.67	100.0
4,4'-DDD	11.00	100.0
4,4'-DDT	11.48	100.0
Endrin aldehyde	11.60	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (2): PEM 240-178086/33 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/27/2015 23:18

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.55	100.0
alpha-BHC	4.25	100.0
gamma-BHC (Lindane)	4.63	100.0
beta-BHC	4.77	100.0
4,4'-DDE	8.05	100.0
Endrin	8.95	100.0
4,4'-DDD	9.32	100.0
4,4'-DDT	9.83	100.0
Endrin aldehyde	10.20	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID (1): PEM 240-178086/33 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/27/2015 23:18

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.23	100.0
alpha-BHC	5.12	100.0
gamma-BHC (Lindane)	5.75	100.0
beta-BHC	5.94	100.0
4,4'-DDE	10.00	100.0
Endrin	10.67	100.0
4,4'-DDD	11.00	100.0
4,4'-DDT	11.48	100.0
Endrin aldehyde	11.60	100.0

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-174448/24 Calibration Date: 03/31/2015 20:11

Instrument ID: A2HP3 Calib Start Date: 03/19/2015 15:22

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/19/2015 17:18

Lab File ID: P3033124.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	9.06	52430236	6.07	15	
Endrin aldehyde	10.30	924740			
Endrin ketone	11.42	2465681			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.92	94164495	1.47	15	
4,4'-DDD	9.42	1197512			
4,4'-DDE	8.18	206271			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 31-Mar-2015 20:11:15 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-024
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	19128359	NC	NC	
2	4.287	4.287	0.000	21973617	NC	NC	
						RPD = 0.52	
4 alpha-BHC							
1	4.300	4.300	0.000	14578958	NC	NC	
2	5.199	5.198	0.001	16698316	NC	NC	
						RPD = 1.28	
5 gamma-BHC (Lindane)							
1	4.693	4.693	0.000	13271936	NC	NC	
2	5.838	5.837	0.001	15369190	NC	NC	
						RPD = 1.64	
6 beta-BHC							
1	4.835	4.834	0.001	5749980	NC	NC	
2	6.041	6.039	0.002	7166413	NC	NC	
						RPD = 3.80	
16 4,4'-DDE							
1	8.175	8.162	0.013	206271		NC	M
2	10.101	10.096	0.005	254471		NC	a
						RPD = 176.34	
18 Endrin							
1	9.060	9.061	-0.001	52430236	NC	NC	
2	10.768	10.766	0.002	54400764	NC	NC	
						RPD = 3.82	
20 4,4'-DDD							
1	9.424	9.413	0.011	1197512		NC	
2	11.085	11.083	0.002	931094		NC	
						RPD = 26.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.924	9.924	0.000	94164495	NC	NC	
2	11.565	11.564	0.001	95320083	NC	NC	
						RPD = 4.31	
25 Endrin aldehyde							
1	10.300	10.292	0.008	924740		NC	
2	11.690	11.689	0.001	798586		NC	
						RPD = 16.66	
27 Methoxychlor							
1		10.866			ND	ND	
2		12.626					
29 Endrin ketone							
1	11.415	11.412	0.003	2465681		NC	
2	12.854	12.855	-0.001	2132474		NC	
						RPD = 15.92	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

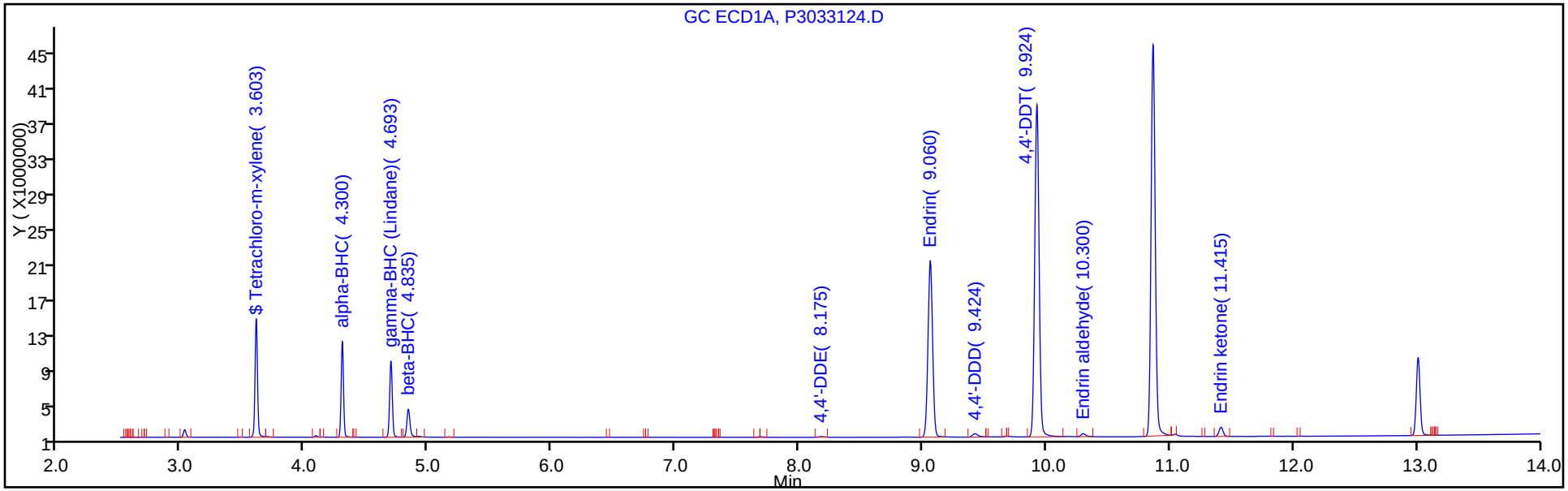
Report Date: 02-Apr-2015 15:27:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

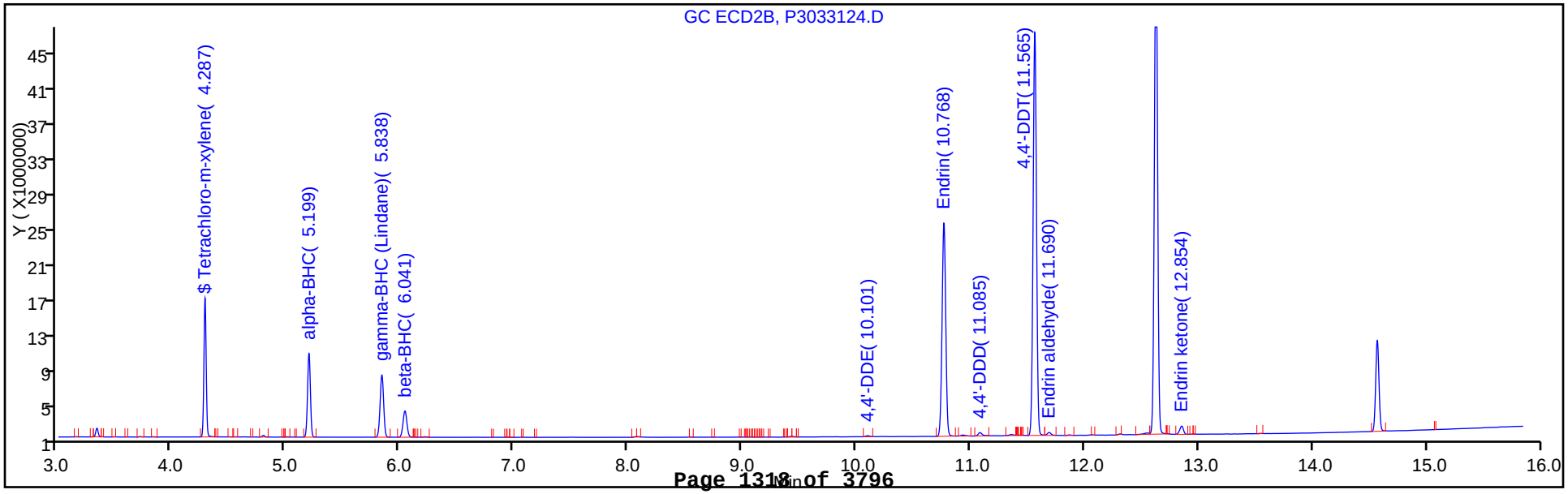
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D

Injection Date:	31-Mar-2015 20:11:15	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-174448/24 Calibration Date: 03/31/2015 20:11

Instrument ID: A2HP3 Calib Start Date: 03/19/2015 15:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/19/2015 17:18

Lab File ID: P3033124.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.77	54400764	5.11	15	
Endrin aldehyde	11.69	798586			
Endrin ketone	12.85	2132474			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.57	95320083	1.23	15	
4,4'-DDD	11.09	931094			
4,4'-DDE	10.10	254471			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 31-Mar-2015 20:11:15 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-024
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	19128359	NC	NC	
2	4.287	4.287	0.000	21973617	NC	NC	
						RPD = 0.52	
4 alpha-BHC							
1	4.300	4.300	0.000	14578958	NC	NC	
2	5.199	5.198	0.001	16698316	NC	NC	
						RPD = 1.28	
5 gamma-BHC (Lindane)							
1	4.693	4.693	0.000	13271936	NC	NC	
2	5.838	5.837	0.001	15369190	NC	NC	
						RPD = 1.64	
6 beta-BHC							
1	4.835	4.834	0.001	5749980	NC	NC	
2	6.041	6.039	0.002	7166413	NC	NC	
						RPD = 3.80	
16 4,4'-DDE							
1	8.175	8.162	0.013	206271		NC	M
2	10.101	10.096	0.005	254471		NC	a
						RPD = 176.34	
18 Endrin							
1	9.060	9.061	-0.001	52430236	NC	NC	
2	10.768	10.766	0.002	54400764	NC	NC	
						RPD = 3.82	
20 4,4'-DDD							
1	9.424	9.413	0.011	1197512		NC	
2	11.085	11.083	0.002	931094		NC	
						RPD = 26.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.924	9.924	0.000	94164495	NC	NC	
2	11.565	11.564	0.001	95320083	NC	NC	
						RPD = 4.31	
25 Endrin aldehyde							
1	10.300	10.292	0.008	924740		NC	
2	11.690	11.689	0.001	798586		NC	
						RPD = 16.66	
27 Methoxychlor							
1		10.866			ND	ND	
2		12.626					
29 Endrin ketone							
1	11.415	11.412	0.003	2465681		NC	
2	12.854	12.855	-0.001	2132474		NC	
						RPD = 15.92	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

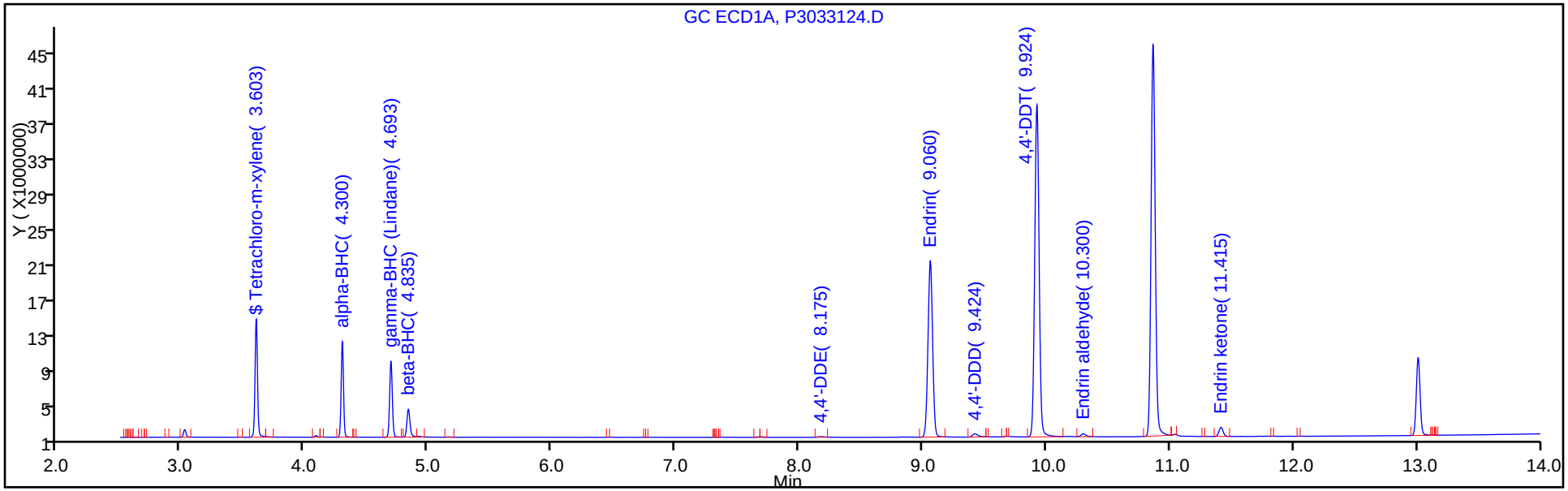
Report Date: 02-Apr-2015 15:27:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

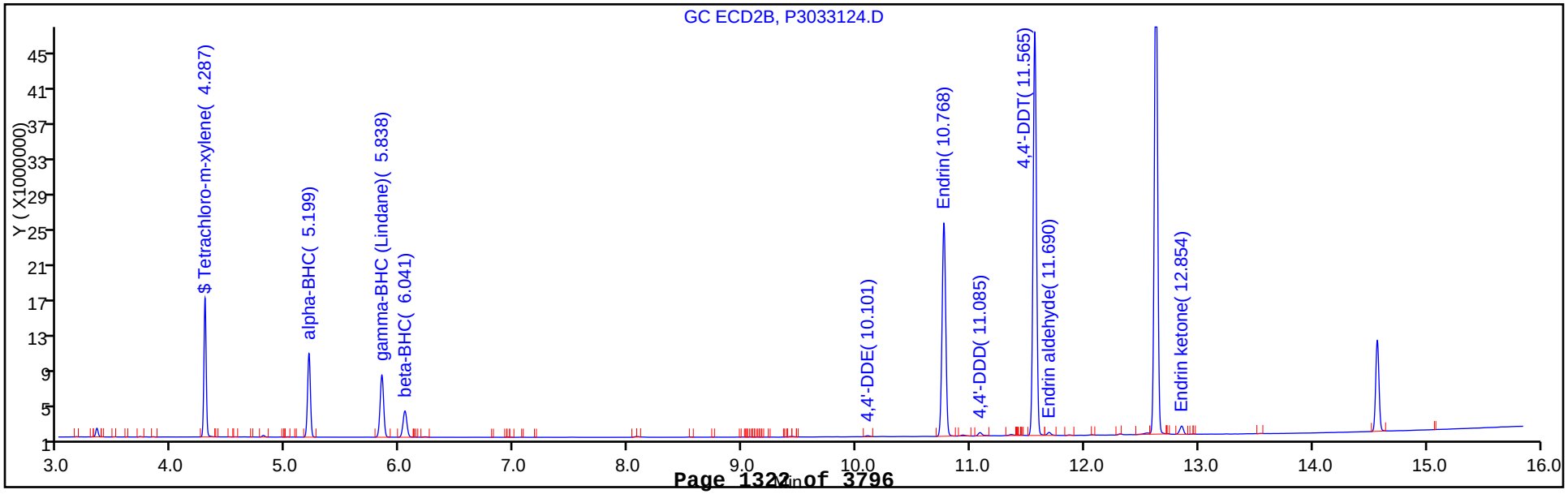
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D

Injection Date:	31-Mar-2015 20:11:15	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-176694/5 Calibration Date: 04/16/2015 15:14

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041605.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.97	58937580	4.45	15	
Endrin aldehyde	10.22	753791			
Endrin ketone	11.34	1991416			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.84	95555612	5.35	15	
4,4'-DDD	9.33	5114695			
4,4'-DDE	8.08	288234			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041605.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 16-Apr-2015 15:14:04 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-005
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:33:33 Calib Date: 02-Apr-2015 17:27:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150402-42172.b\P3040210.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:11:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.560	3.559	0.001	20274120	10.0	20.6	
2	4.239	4.240	-0.001	23138151	10.0	20.5	
						RPD = 0.41	
4 alpha-BHC							
1	4.255	4.254	0.001	15876413	10.0	9.17	
2	5.133	5.134	-0.001	17864066	10.0	9.13	
						RPD = 0.45	
5 gamma-BHC (Lindane)							
1	4.642	4.641	0.001	14517850	10.0	9.40	
2	5.756	5.758	-0.002	16498994	10.0	9.32	
						RPD = 0.86	
6 beta-BHC							
1	4.781	4.780	0.001	6224977	10.0	9.88	
2	5.956	5.957	-0.001	7551905	10.0	9.83	
						RPD = 0.56	
16 4,4'-DDE							
1	8.076	8.061	0.015	288234		0.2433	M
2	10.017	10.016	0.001	359122		0.2720	a
						RPD = 11.13	
LOD = 0.5000							
18 Endrin							
1	8.968	8.968	0.000	58937580	50.0	51.2	
2	10.686	10.686	0.000	59813020	50.0	49.6	
						RPD = 3.12	
20 4,4'-DDD							
1	9.331	9.329	0.002	5114695		5.88	
2	11.010	11.009	0.001	5291254		5.41	
						RPD = 8.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.843	9.842	0.001	95555612	100.0	100.0	
2	11.491	11.491	0.000	94649433	100.0	94.8	
						RPD = 5.33	
25 Endrin aldehyde							
1	10.221	10.213	0.008	753791		0.8462	
2	11.613	11.614	-0.001	579333		0.6204	
						RPD = 30.79	
27 Methoxychlor							
1		10.793			ND	ND	
2		12.557					
29 Endrin ketone							
1	11.337	11.335	0.002	1991416		1.63	
2	12.776	12.779	-0.003	2129925		1.73	
						RPD = 6.24	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

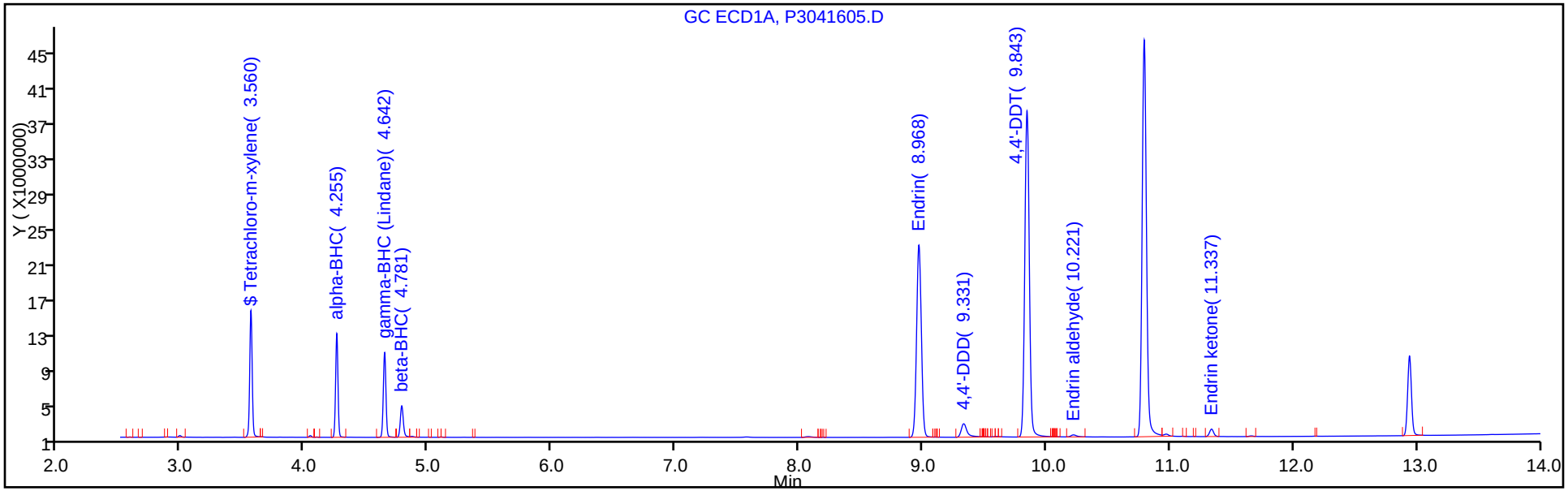
Report Date: 17-Apr-2015 08:33:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

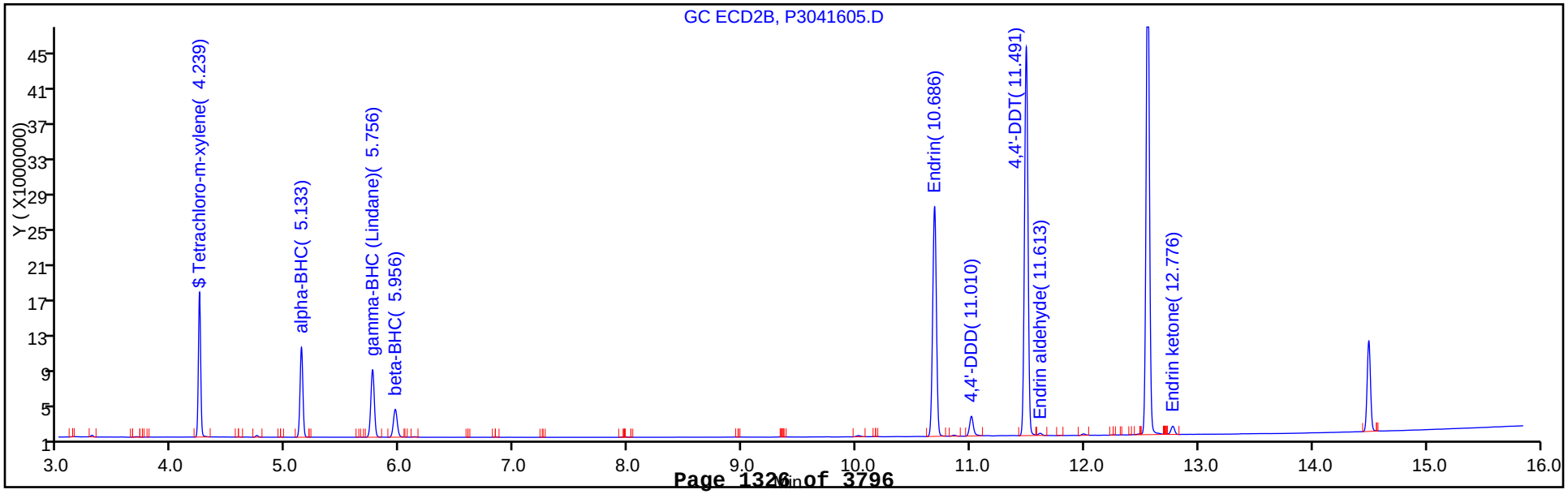
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041605.D

Injection Date:	16-Apr-2015 15:14:04	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-176694/5 Calibration Date: 04/16/2015 15:14

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041605.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.69	59813020	4.33	15	
Endrin aldehyde	11.61	579333			
Endrin ketone	12.78	2129925			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.49	94649433	5.63	15	
4,4'-DDD	11.01	5291254			
4,4'-DDE	10.02	359122			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041605.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 16-Apr-2015 15:14:04 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-005
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:33:33 Calib Date: 02-Apr-2015 17:27:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150402-42172.b\P3040210.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:11:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.560	3.559	0.001	20274120	10.0	20.6	
2	4.239	4.240	-0.001	23138151	10.0	20.5	
						RPD = 0.41	
4 alpha-BHC							
1	4.255	4.254	0.001	15876413	10.0	9.17	
2	5.133	5.134	-0.001	17864066	10.0	9.13	
						RPD = 0.45	
5 gamma-BHC (Lindane)							
1	4.642	4.641	0.001	14517850	10.0	9.40	
2	5.756	5.758	-0.002	16498994	10.0	9.32	
						RPD = 0.86	
6 beta-BHC							
1	4.781	4.780	0.001	6224977	10.0	9.88	
2	5.956	5.957	-0.001	7551905	10.0	9.83	
						RPD = 0.56	
16 4,4'-DDE							
1	8.076	8.061	0.015	288234		0.2433	M
2	10.017	10.016	0.001	359122		0.2720	a
						RPD = 11.13	
LOD = 0.5000							
18 Endrin							
1	8.968	8.968	0.000	58937580	50.0	51.2	
2	10.686	10.686	0.000	59813020	50.0	49.6	
						RPD = 3.12	
20 4,4'-DDD							
1	9.331	9.329	0.002	5114695		5.88	
2	11.010	11.009	0.001	5291254		5.41	
						RPD = 8.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.843	9.842	0.001	95555612	100.0	100.0	
2	11.491	11.491	0.000	94649433	100.0	94.8	
						RPD = 5.33	
25 Endrin aldehyde							
1	10.221	10.213	0.008	753791		0.8462	
2	11.613	11.614	-0.001	579333		0.6204	
						RPD = 30.79	
27 Methoxychlor							
1		10.793			ND	ND	
2		12.557					
29 Endrin ketone							
1	11.337	11.335	0.002	1991416		1.63	
2	12.776	12.779	-0.003	2129925		1.73	
						RPD = 6.24	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

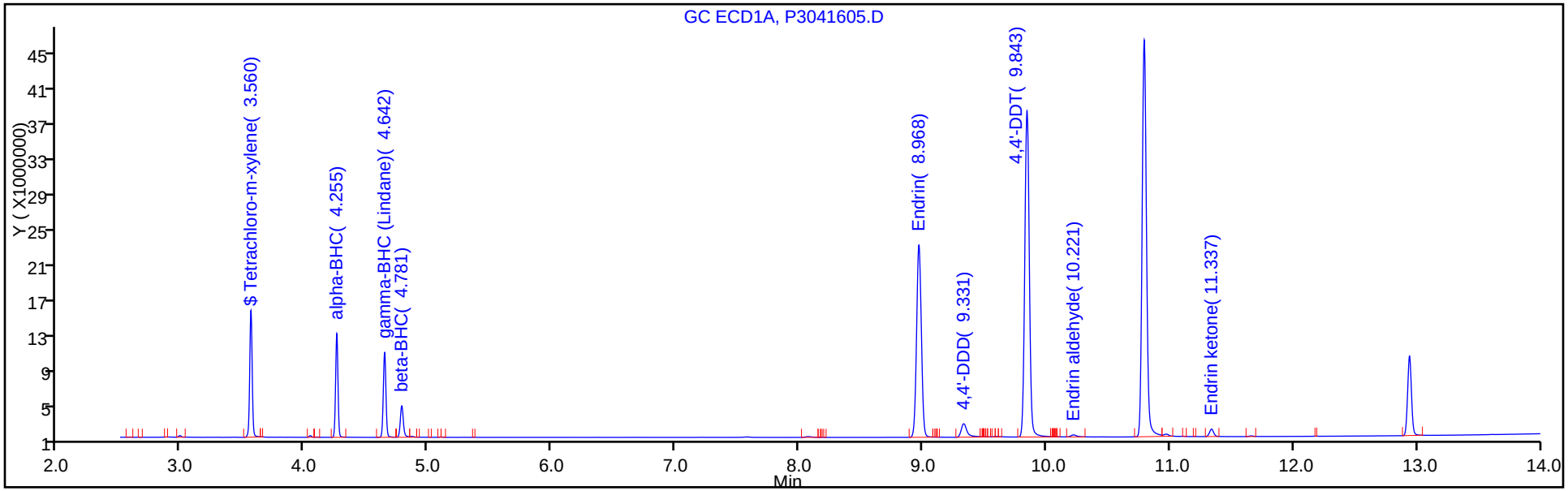
Report Date: 17-Apr-2015 08:33:40 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

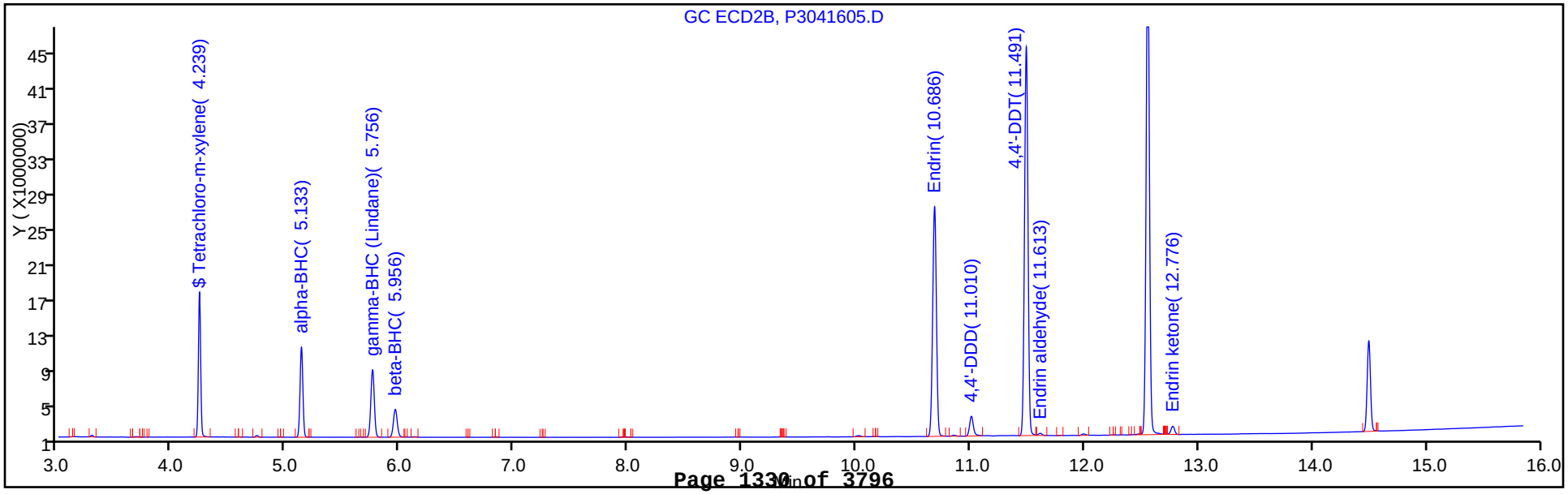
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041605.D

Injection Date:	16-Apr-2015 15:14:04	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-177258/27 Calibration Date: 04/21/2015 22:49

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042127.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.96	62852510	4.44	15	
Endrin aldehyde	10.21	704130			
Endrin ketone	11.33	2216617			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.83	101584019	4.17	15	
4,4'-DDD	9.32	4193343			
4,4'-DDE	8.05	224047			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 21-Apr-2015 22:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:49 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:28:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.554	-0.004	22114936	10.0	22.5	
2	4.235	4.235	0.000	25037271	10.0	22.2	
						RPD = 1.21	
4 alpha-BHC							
1	4.246	4.250	-0.004	17321003	10.0	10.0	
2	5.128	5.128	0.000	19632697	10.0	10.0	
						RPD = 0.28	
5 gamma-BHC (Lindane)							
1	4.632	4.638	-0.006	15791420	10.0	10.2	
2	5.751	5.751	0.000	18049275	10.0	10.2	
						RPD = 0.29	
6 beta-BHC							
1	4.771	4.776	-0.005	6736133	10.0	10.7	
2	5.951	5.949	0.002	8128987	10.0	10.6	
						RPD = 1.08	
16 4,4'-DDE							
1	8.054	8.059	-0.005	224047		0.1891	M
2	10.011	10.012	-0.001	314483		0.2382	a
						RPD = 22.96	
LOD = 0.5000							
18 Endrin							
1	8.958	8.962	-0.004	62852510	50.0	54.6	
2	10.681	10.681	0.000	62942171	50.0	52.2	
						RPD = 4.46	
20 4,4'-DDD							
1	9.321	9.327	-0.006	4193343		4.82	
2	11.005	11.006	-0.001	4392579		4.49	
						RPD = 7.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.833	9.841	-0.008	101584019	100.0	106.3	
2	11.486	11.487	-0.001	99820361	100.0	100.0	
						RPD = 6.13	
25 Endrin aldehyde							
1	10.208	10.209	-0.001	704130		0.7904	
2	11.609	11.609	0.000	637730		0.6829	
						RPD = 14.60	
27 Methoxychlor							
1		10.795			ND	ND	
2		12.554					
29 Endrin ketone							
1	11.331	11.334	-0.003	2216617		1.81	
2	12.772	12.776	-0.004	2297048		1.87	
						RPD = 3.08	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

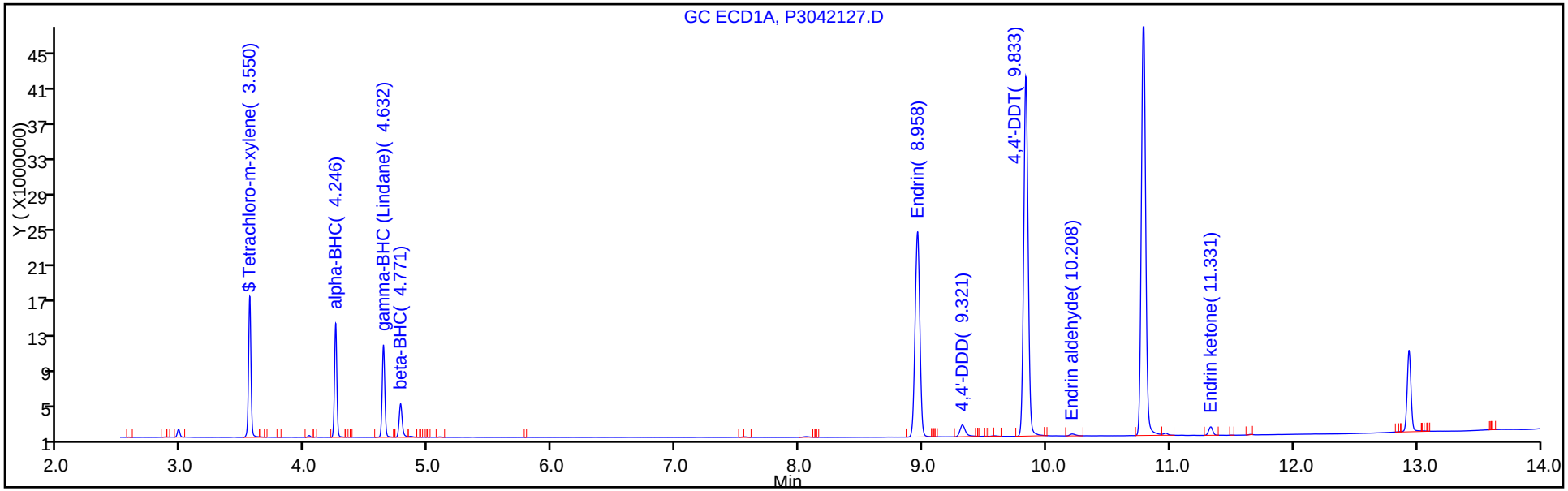
Report Date: 22-Apr-2015 08:57:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

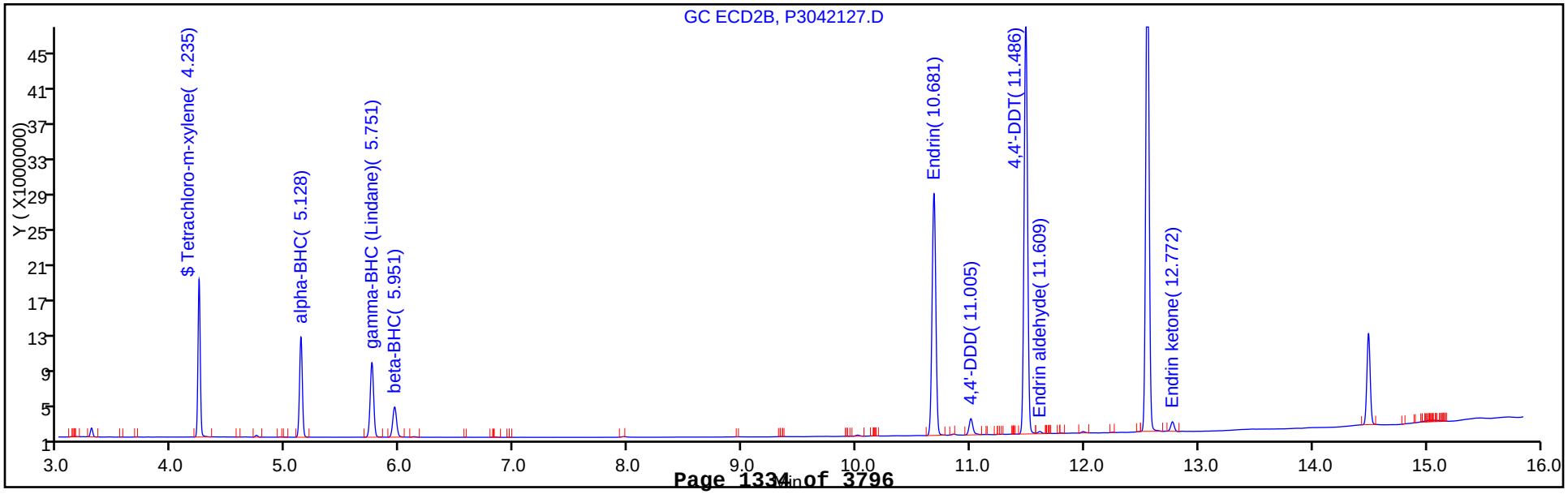
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D

Injection Date:	21-Apr-2015 22:49:30	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-177258/27 Calibration Date: 04/21/2015 22:49

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042127.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.68	62942171	4.45	15	
Endrin aldehyde	11.61	637730			
Endrin ketone	12.77	2297048			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.49	99820361	4.50	15	
4,4'-DDD	11.01	4392579			
4,4'-DDE	10.01	314483			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 21-Apr-2015 22:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:49 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:28:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.554	-0.004	22114936	10.0	22.5	
2	4.235	4.235	0.000	25037271	10.0	22.2	
						RPD = 1.21	
4 alpha-BHC							
1	4.246	4.250	-0.004	17321003	10.0	10.0	
2	5.128	5.128	0.000	19632697	10.0	10.0	
						RPD = 0.28	
5 gamma-BHC (Lindane)							
1	4.632	4.638	-0.006	15791420	10.0	10.2	
2	5.751	5.751	0.000	18049275	10.0	10.2	
						RPD = 0.29	
6 beta-BHC							
1	4.771	4.776	-0.005	6736133	10.0	10.7	
2	5.951	5.949	0.002	8128987	10.0	10.6	
						RPD = 1.08	
16 4,4'-DDE							
1	8.054	8.059	-0.005	224047		0.1891	M
2	10.011	10.012	-0.001	314483		0.2382	a
						RPD = 22.96	
LOD = 0.5000							
18 Endrin							
1	8.958	8.962	-0.004	62852510	50.0	54.6	
2	10.681	10.681	0.000	62942171	50.0	52.2	
						RPD = 4.46	
20 4,4'-DDD							
1	9.321	9.327	-0.006	4193343		4.82	
2	11.005	11.006	-0.001	4392579		4.49	
						RPD = 7.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.833	9.841	-0.008	101584019	100.0	106.3	
2	11.486	11.487	-0.001	99820361	100.0	100.0	
						RPD = 6.13	
25 Endrin aldehyde							
1	10.208	10.209	-0.001	704130		0.7904	
2	11.609	11.609	0.000	637730		0.6829	
						RPD = 14.60	
27 Methoxychlor							
1		10.795			ND	ND	
2		12.554					
29 Endrin ketone							
1	11.331	11.334	-0.003	2216617		1.81	
2	12.772	12.776	-0.004	2297048		1.87	
						RPD = 3.08	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

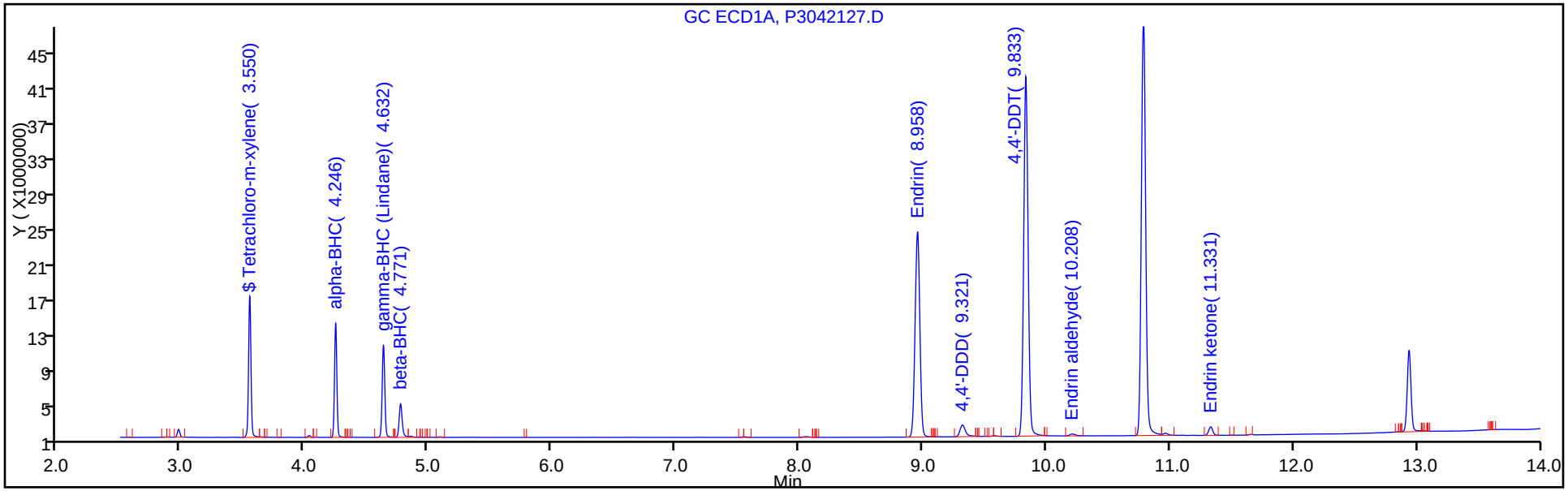
Report Date: 22-Apr-2015 08:57:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

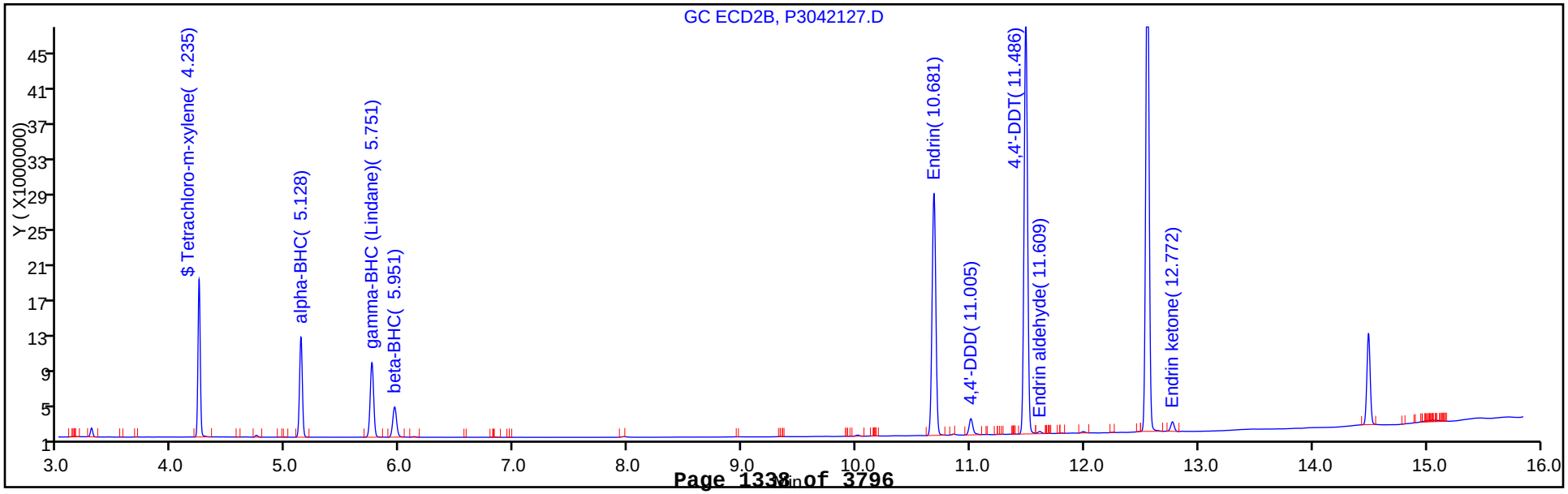
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D

Injection Date:	21-Apr-2015 22:49:30	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-178086/5 Calibration Date: 04/27/2015 12:17

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042705.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.96	56708225	6.26	15	
Endrin aldehyde	10.21	1010130			
Endrin ketone	11.33	2777700			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.83	106959498	0.94	15	
4,4'-DDD	9.32	594142			
4,4'-DDE	8.07	417086			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042705.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 27-Apr-2015 12:17:11 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-005
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:16 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 13:44:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.551	0.004	20969387	10.0	21.3	
2	4.230	4.231	-0.001	23753247	10.0	21.1	
						RPD = 1.15	
4 alpha-BHC							
1	4.250	4.246	0.004	16393143	10.0	9.47	
2	5.123	5.123	0.000	18397235	10.0	9.40	
						RPD = 0.72	
5 gamma-BHC (Lindane)							
1	4.636	4.633	0.003	14945528	10.0	9.68	
2	5.744	5.745	-0.001	17101664	10.0	9.66	
						RPD = 0.17	
6 beta-BHC							
1	4.775	4.770	0.005	6411345	10.0	10.2	
2	5.941	5.943	-0.002	7874712	10.0	10.2	
						RPD = 0.68	
16 4,4'-DDE							
1	8.065	8.045	0.020	417086		0.3521	M
2	10.003	10.002	0.001	608301		0.4607	a
						RPD = 26.73	
LOD = 0.5000							
18 Endrin							
1	8.956	8.952	0.004	56708225	50.0	49.3	
2	10.672	10.672	0.000	56624762	50.0	47.0	
						RPD = 4.75	
20 4,4'-DDD							
1	9.323	9.314	0.009	594142		0.6826	M
2	10.997	10.997	0.000	822571		0.8405	a
						RPD = 20.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.833	9.828	0.005	106959498	100.0	112.0	
2	11.479	11.477	0.002	106366470	100.0	106.6	
						RPD = 4.94	
25 Endrin aldehyde							
1	10.206	10.198	0.008	1010130		1.13	M
2	11.600	11.600	0.000	1831788		1.96	a
						RPD = 53.47	
27 Methoxychlor							
1		10.781			ND	ND	
2		12.545					
29 Endrin ketone							
1	11.326	11.323	0.003	2777700		2.27	
2	12.763	12.767	-0.004	3882289		3.16	
						RPD = 32.70	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

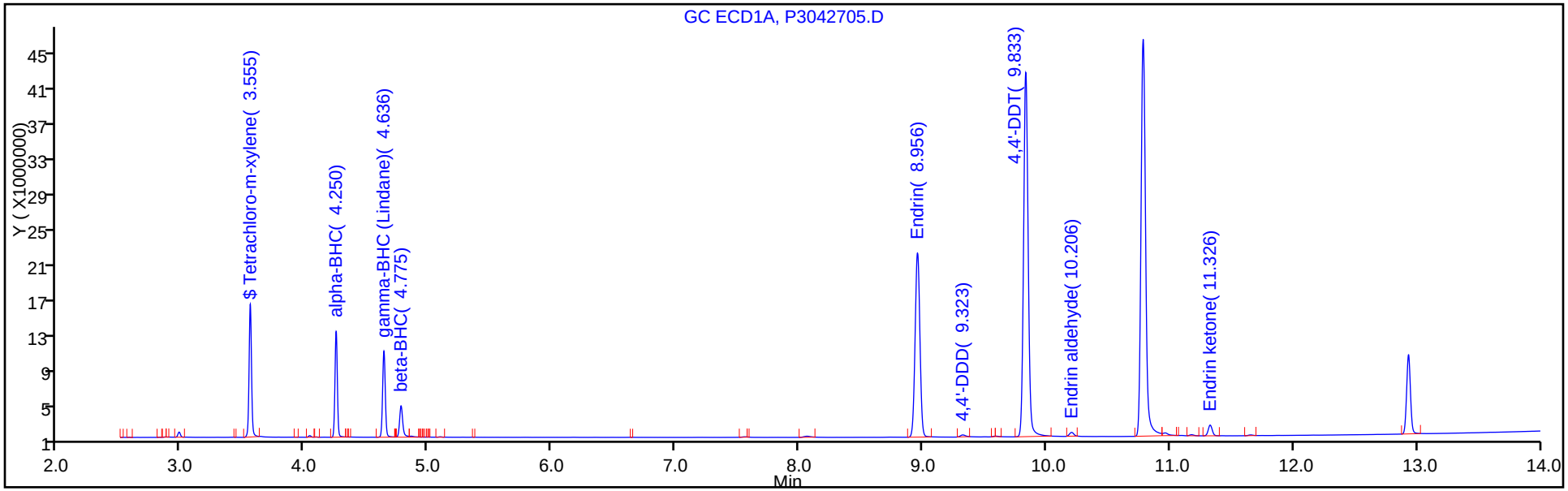
Report Date: 28-Apr-2015 08:11:39 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

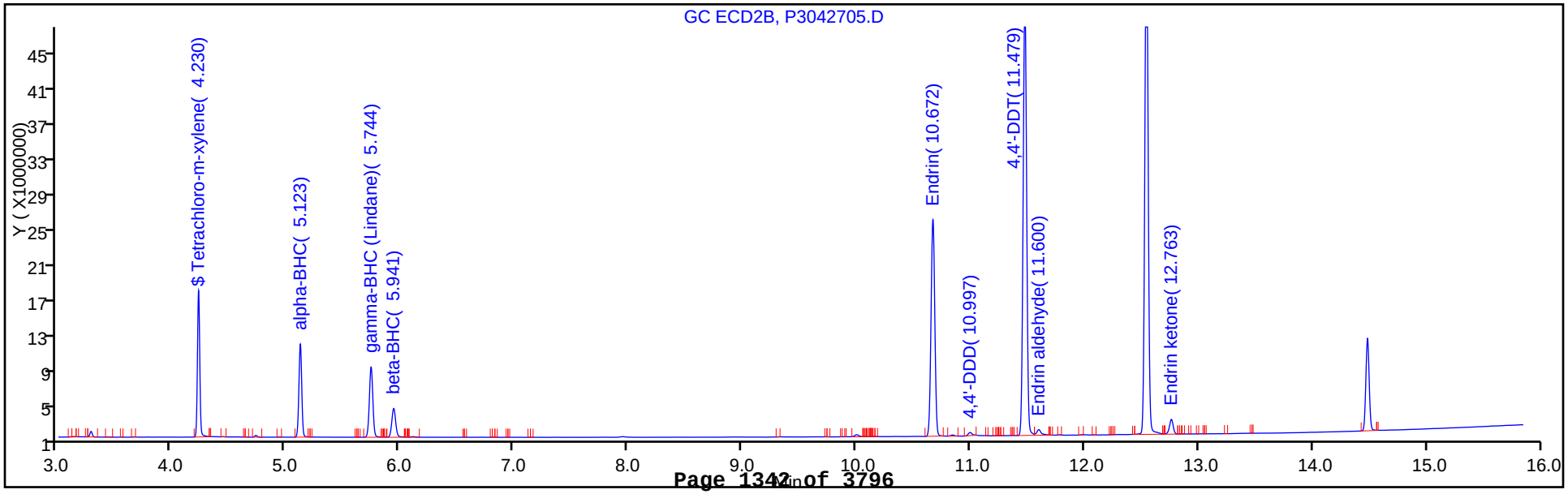
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042705.D

Injection Date:	27-Apr-2015 12:17:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-178086/5 Calibration Date: 04/27/2015 12:17

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042705.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.67	56624762	9.17	15	
Endrin aldehyde	11.60	1831788			
Endrin ketone	12.76	3882289			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.48	106366470	1.33	15	
4,4'-DDD	11.00	822571			
4,4'-DDE	10.00	608301			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042705.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 27-Apr-2015 12:17:11 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-005
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:16 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 13:44:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.551	0.004	20969387	10.0	21.3	
2	4.230	4.231	-0.001	23753247	10.0	21.1	
						RPD = 1.15	
4 alpha-BHC							
1	4.250	4.246	0.004	16393143	10.0	9.47	
2	5.123	5.123	0.000	18397235	10.0	9.40	
						RPD = 0.72	
5 gamma-BHC (Lindane)							
1	4.636	4.633	0.003	14945528	10.0	9.68	
2	5.744	5.745	-0.001	17101664	10.0	9.66	
						RPD = 0.17	
6 beta-BHC							
1	4.775	4.770	0.005	6411345	10.0	10.2	
2	5.941	5.943	-0.002	7874712	10.0	10.2	
						RPD = 0.68	
16 4,4'-DDE							
1	8.065	8.045	0.020	417086		0.3521	M
2	10.003	10.002	0.001	608301		0.4607	a
						RPD = 26.73	
LOD = 0.5000							
18 Endrin							
1	8.956	8.952	0.004	56708225	50.0	49.3	
2	10.672	10.672	0.000	56624762	50.0	47.0	
						RPD = 4.75	
20 4,4'-DDD							
1	9.323	9.314	0.009	594142		0.6826	M
2	10.997	10.997	0.000	822571		0.8405	a
						RPD = 20.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.833	9.828	0.005	106959498	100.0	112.0	
2	11.479	11.477	0.002	106366470	100.0	106.6	
						RPD = 4.94	
25 Endrin aldehyde							
1	10.206	10.198	0.008	1010130		1.13	M
2	11.600	11.600	0.000	1831788		1.96	a
						RPD = 53.47	
27 Methoxychlor							
1		10.781			ND	ND	
2		12.545					
29 Endrin ketone							
1	11.326	11.323	0.003	2777700		2.27	
2	12.763	12.767	-0.004	3882289		3.16	
						RPD = 32.70	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

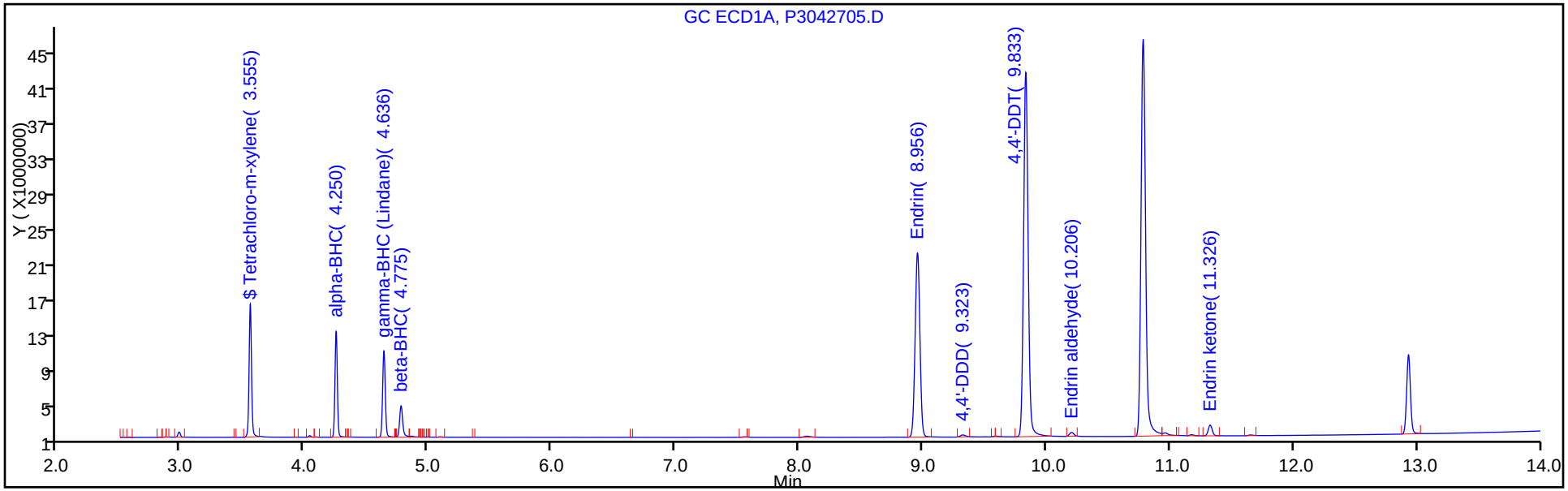
Report Date: 28-Apr-2015 08:11:40 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

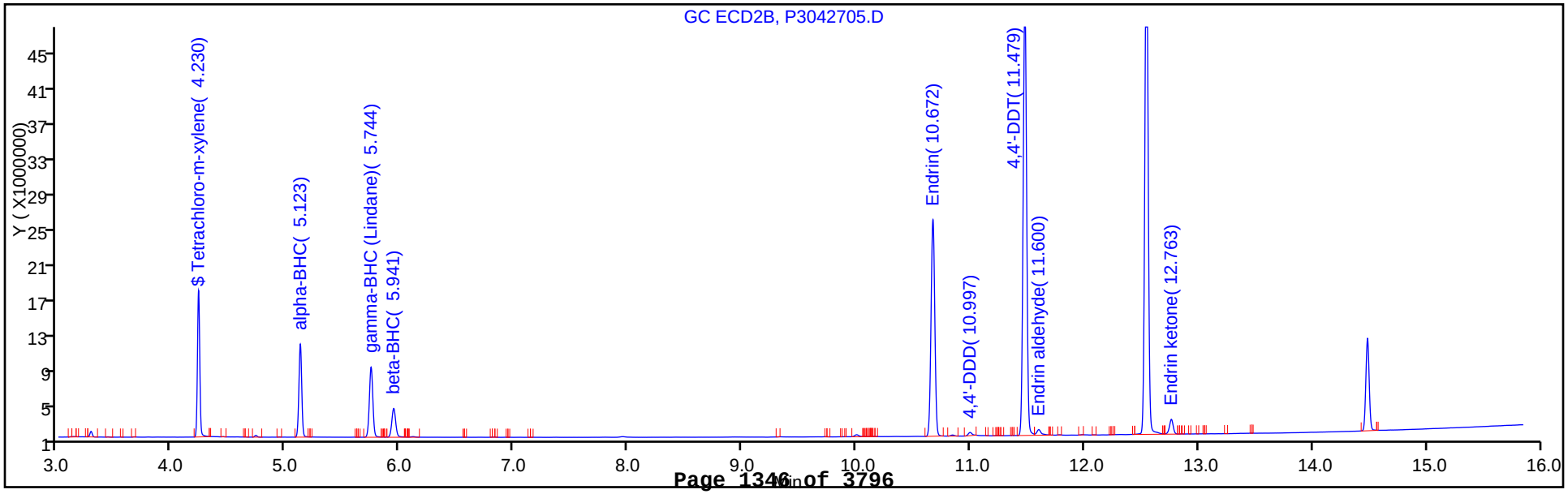
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042705.D

Injection Date:	27-Apr-2015 12:17:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-178086/33 Calibration Date: 04/27/2015 23:18

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042733.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.95	66957119	2.93	15	
Endrin aldehyde	10.20	592019			
Endrin ketone	11.33	1426075			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.83	117297489	2.25	15	
4,4'-DDD	9.32	900100			
4,4'-DDE	8.05	1799179			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042733.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 27-Apr-2015 23:18:00 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-033
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:12:18 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:53:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.551	0.000	22710174	10.0	23.1	
2	4.231	4.231	0.000	25326948	10.0	22.5	
						RPD = 2.71	
4 alpha-BHC							
1	4.246	4.246	0.000	17536408	10.0	10.1	
2	5.123	5.123	0.000	19628620	10.0	10.0	
						RPD = 0.98	
5 gamma-BHC (Lindane)							
1	4.633	4.632	0.001	16015350	10.0	10.4	
2	5.745	5.744	0.001	18167816	10.0	10.3	
						RPD = 1.04	
6 beta-BHC							
1	4.771	4.770	0.001	6941220	10.0	11.0	
2	5.943	5.942	0.001	8400292	10.0	10.9	
						RPD = 0.80	
16 4,4'-DDE							
1	8.054	8.049	0.005	1799179		1.52	
2	10.003	10.003	0.000	2003799		1.52	
						RPD = 0.08	
18 Endrin							
1	8.953	8.954	-0.001	66957119	50.0	58.2	
2	10.674	10.673	0.001	66822188	50.0	55.4	
						RPD = 4.80	
20 4,4'-DDD							
1	9.323	9.316	0.007	900100		1.03	
2	11.000	10.996	0.004	994479		1.02	
						RPD = 1.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.830	9.830	0.000	117297489	100.0	122.8	
2	11.479	11.479	0.000	116015859	100.0	116.2	
						RPD = 5.48	
25 Endrin aldehyde							
1	10.201	10.199	0.002	592019		0.6646	
2	11.600	11.600	0.000	783419		0.8389	
						RPD = 23.19	
27 Methoxychlor							
1		10.786			ND	ND	
2		12.545					
29 Endrin ketone							
1	11.325	11.324	0.001	1426075		1.17	
2	12.762	12.766	-0.004	2372774		1.93	
						RPD = 49.39	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

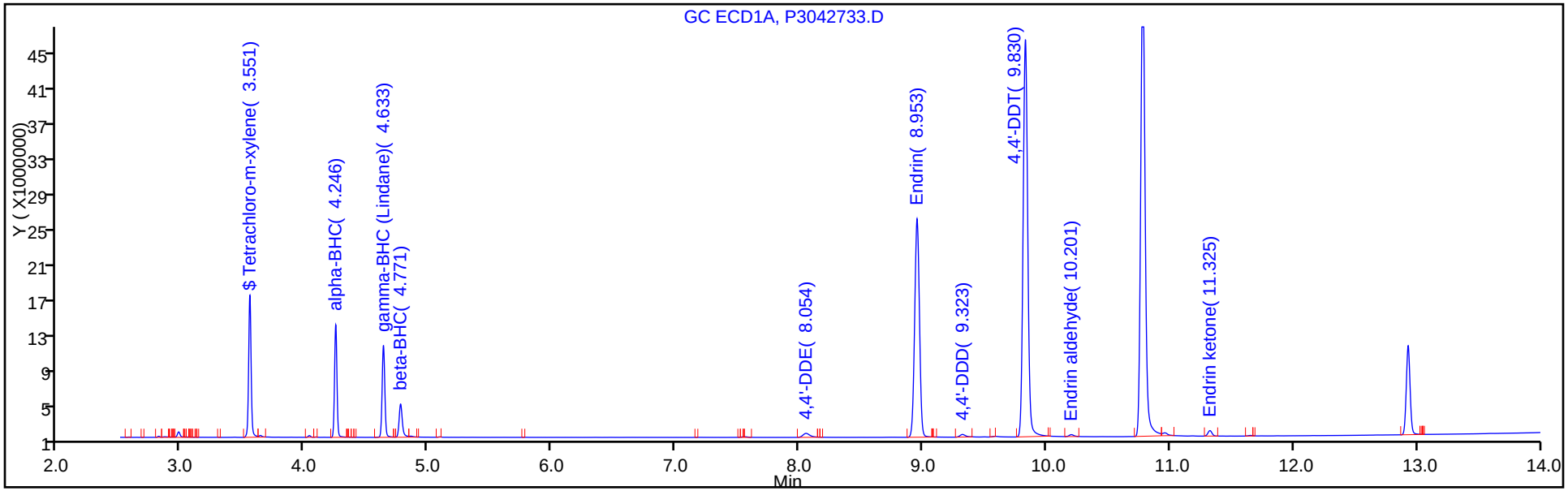
Report Date: 28-Apr-2015 08:12:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

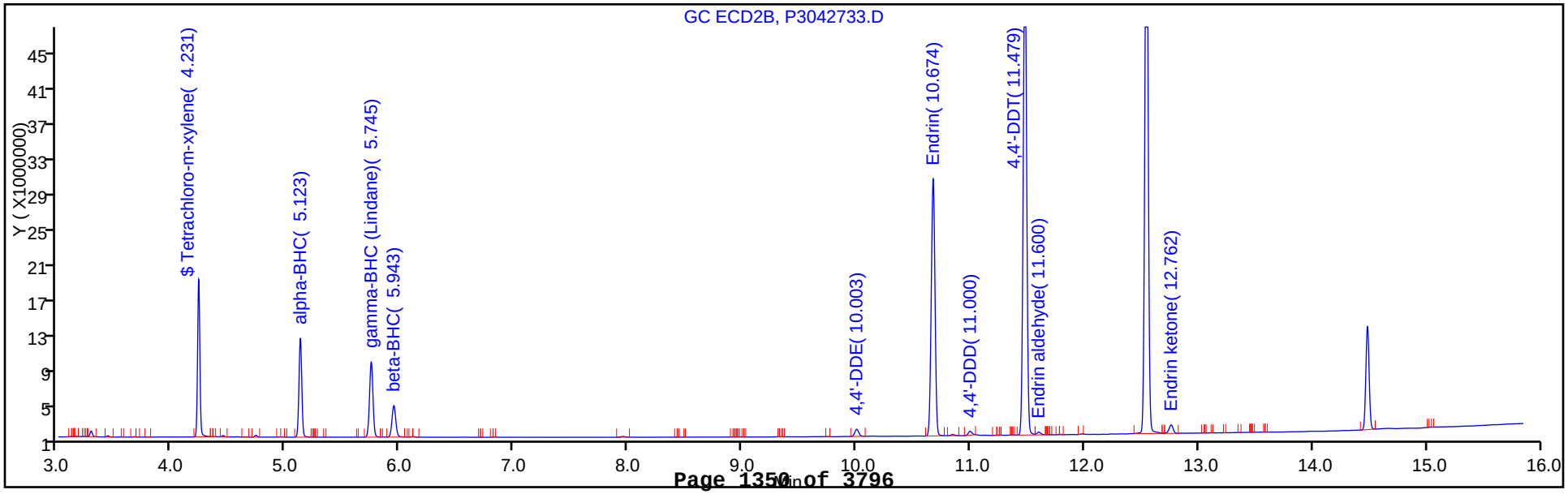
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042733.D

Injection Date:	27-Apr-2015 23:18:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: PEM 240-178086/33 Calibration Date: 04/27/2015 23:18

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042733.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.67	66822188	4.51	15	
Endrin aldehyde	11.60	783419			
Endrin ketone	12.76	2372774			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.48	116015859	2.52	15	
4,4'-DDD	11.00	994479			
4,4'-DDE	10.00	2003799			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042733.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 27-Apr-2015 23:18:00 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-033
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:12:18 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:53:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.551	0.000	22710174	10.0	23.1	
2	4.231	4.231	0.000	25326948	10.0	22.5	
						RPD = 2.71	
4 alpha-BHC							
1	4.246	4.246	0.000	17536408	10.0	10.1	
2	5.123	5.123	0.000	19628620	10.0	10.0	
						RPD = 0.98	
5 gamma-BHC (Lindane)							
1	4.633	4.632	0.001	16015350	10.0	10.4	
2	5.745	5.744	0.001	18167816	10.0	10.3	
						RPD = 1.04	
6 beta-BHC							
1	4.771	4.770	0.001	6941220	10.0	11.0	
2	5.943	5.942	0.001	8400292	10.0	10.9	
						RPD = 0.80	
16 4,4'-DDE							
1	8.054	8.049	0.005	1799179		1.52	
2	10.003	10.003	0.000	2003799		1.52	
						RPD = 0.08	
18 Endrin							
1	8.953	8.954	-0.001	66957119	50.0	58.2	
2	10.674	10.673	0.001	66822188	50.0	55.4	
						RPD = 4.80	
20 4,4'-DDD							
1	9.323	9.316	0.007	900100		1.03	
2	11.000	10.996	0.004	994479		1.02	
						RPD = 1.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.830	9.830	0.000	117297489	100.0	122.8	
2	11.479	11.479	0.000	116015859	100.0	116.2	
						RPD = 5.48	
25 Endrin aldehyde							
1	10.201	10.199	0.002	592019		0.6646	
2	11.600	11.600	0.000	783419		0.8389	
						RPD = 23.19	
27 Methoxychlor							
1		10.786			ND	ND	
2		12.545					
29 Endrin ketone							
1	11.325	11.324	0.001	1426075		1.17	
2	12.762	12.766	-0.004	2372774		1.93	
						RPD = 49.39	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

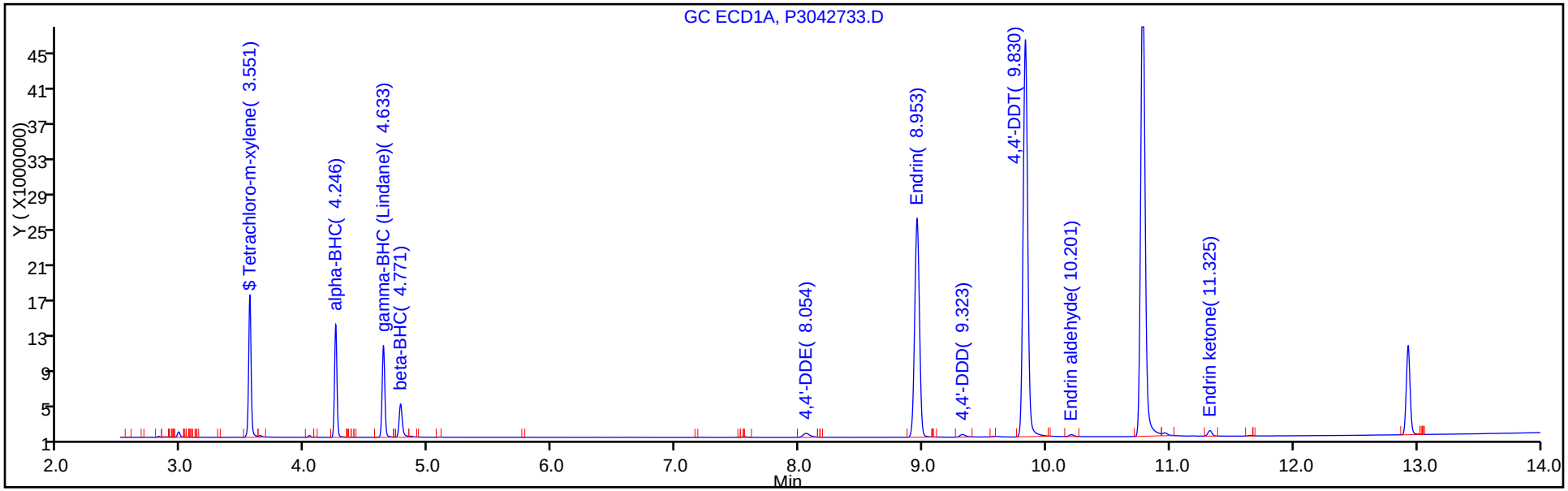
Report Date: 28-Apr-2015 08:12:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

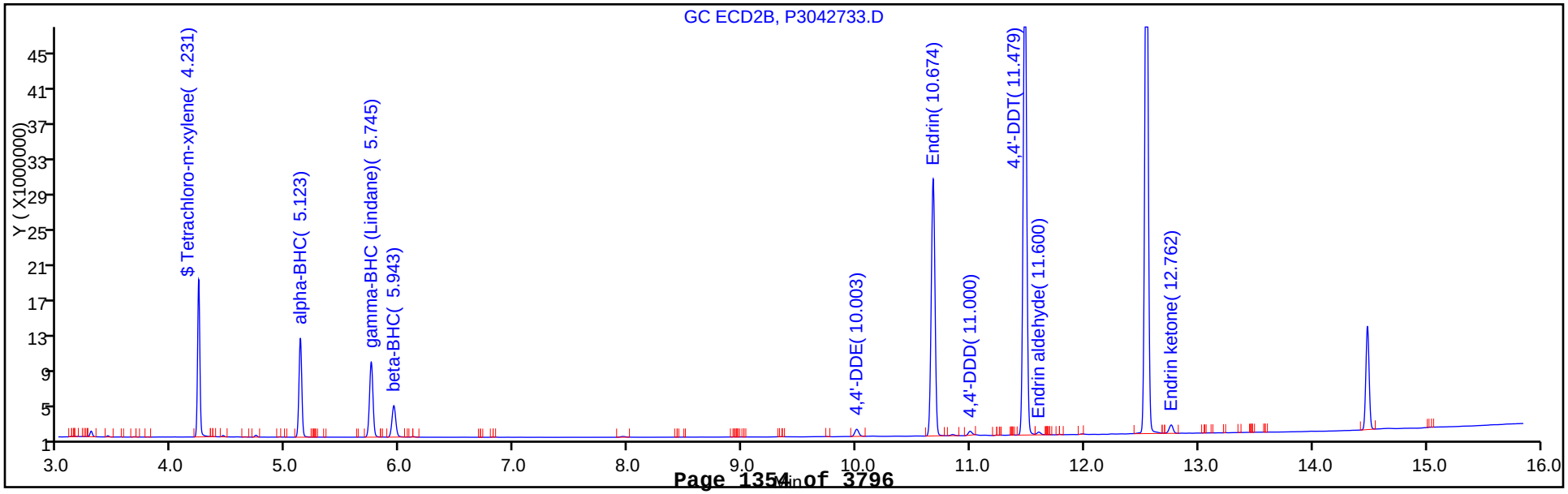
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042733.D

Injection Date:	27-Apr-2015 23:18:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	42537		1120	1000	12.4	20.0
Toxaphene Peak 2	Ave	36644	38369		1050	1000	4.7	20.0
Toxaphene Peak 3	Ave	23355	26929		1150	1000	15.3	20.0
Toxaphene Peak 4	Ave	33176	37077		1120	1000	11.8	20.0
Toxaphene Peak 5	Ave	32330	36873		1140	1000	14.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.71	9.68	9.74
Toxaphene Peak 2	10.17	10.14	10.20
Toxaphene Peak 3	10.48	10.45	10.51
Toxaphene Peak 4	10.82	10.78	10.84
Toxaphene Peak 5	10.93	10.89	10.95

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D
Lims ID: ICV TOX
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 17:34:14 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-017
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:40:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	42537298	1000.0	1124.4	M
1	10.165	10.167	-0.002	38369101	1000.0	1047.1	M
1	10.476	10.478	-0.002	26928611	1000.0	1153.0	M
1	10.816	10.814	0.002	37077392	1000.0	1117.6	M
1	10.925	10.922	0.003	36872517	1000.0	1140.5	M
		Average of Peak Amounts =				1116.5	
2	11.110	11.108	0.002	56398273	1000.0	1088.3	M
2	11.275	11.275	0.000	54666334	1000.0	1072.6	M
2	11.698	11.698	0.000	38048417	1000.0	1067.5	M
2	12.433	12.433	0.000	48902236	1000.0	1071.7	M
2	12.523	12.523	0.000	16163268	1000.0	1038.1	M
		Average of Peak Amounts =				1067.7	
						RPD = 4.47	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX ChemS_00004 Amount Added: 100.00 Units: uL

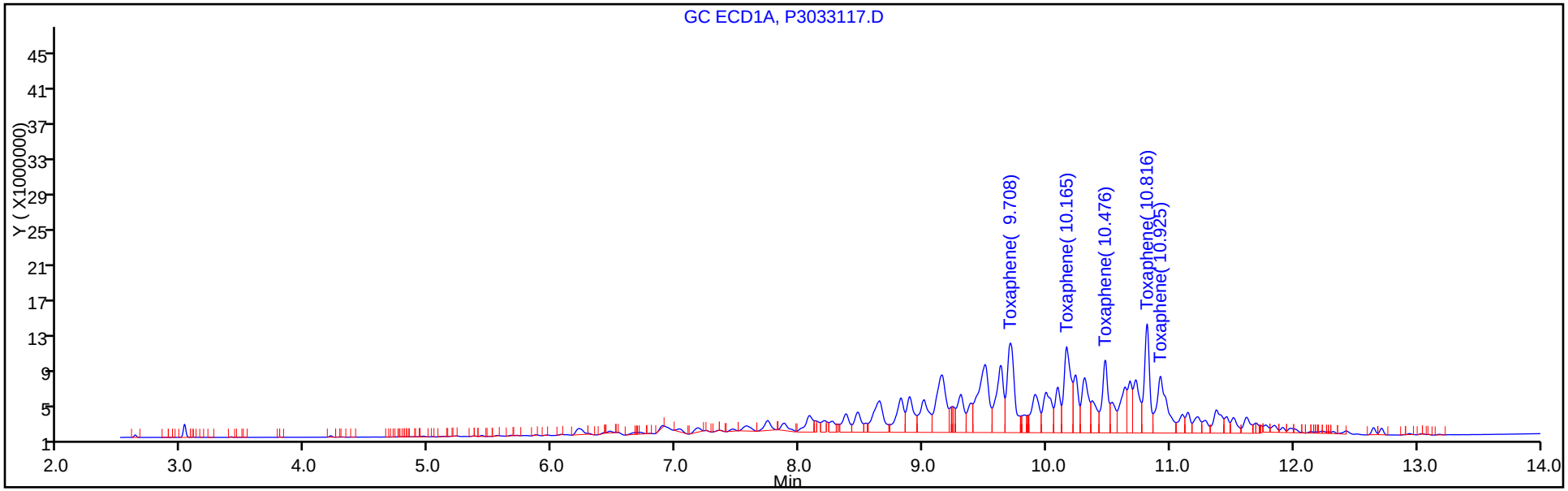
Report Date: 01-Apr-2015 08:57:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

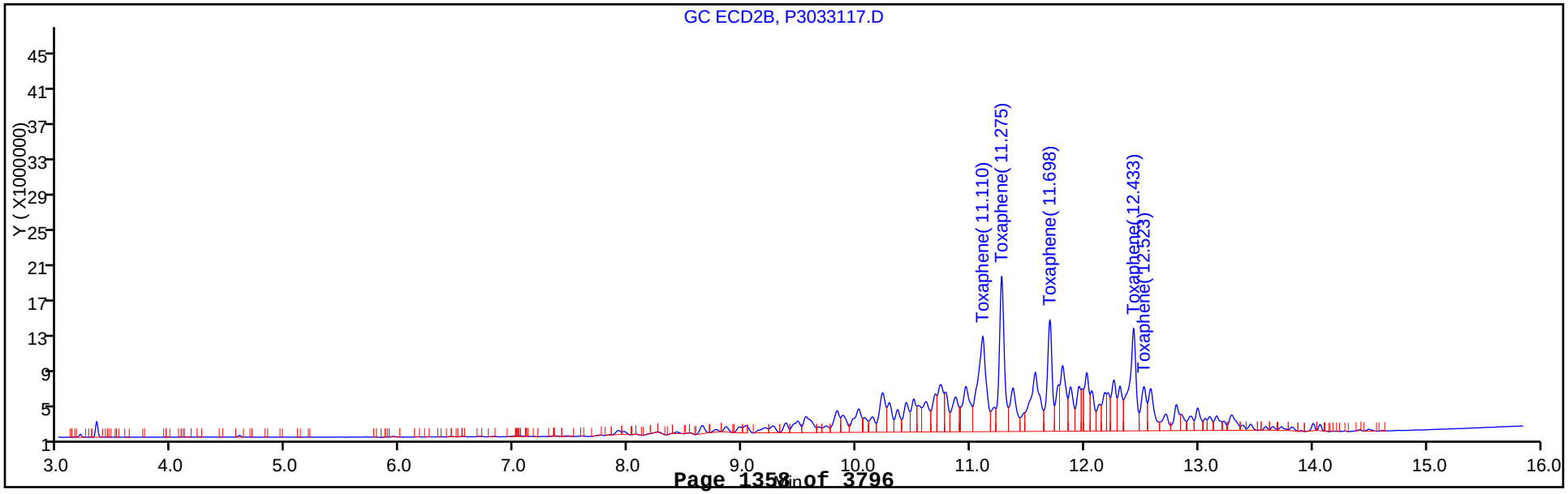
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date:	31-Mar-2015 17:34:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date: 31-Mar-2015 17:34:14 Instrument ID: A2HP3

Lims ID: ICV TOX

Client ID:

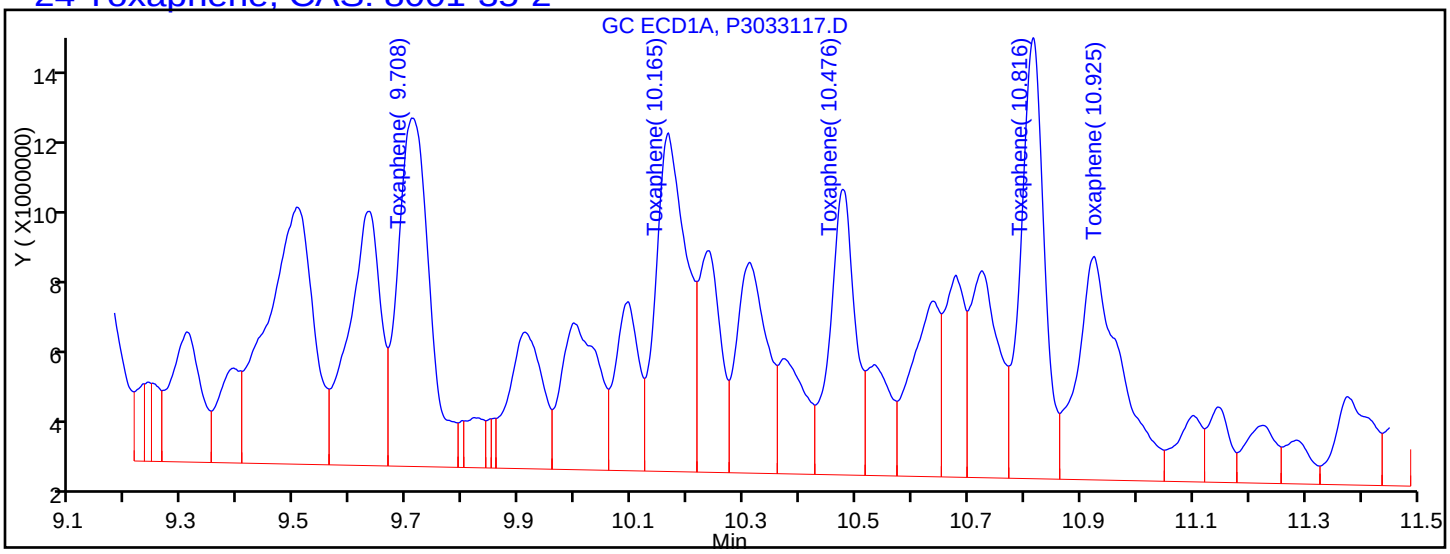
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

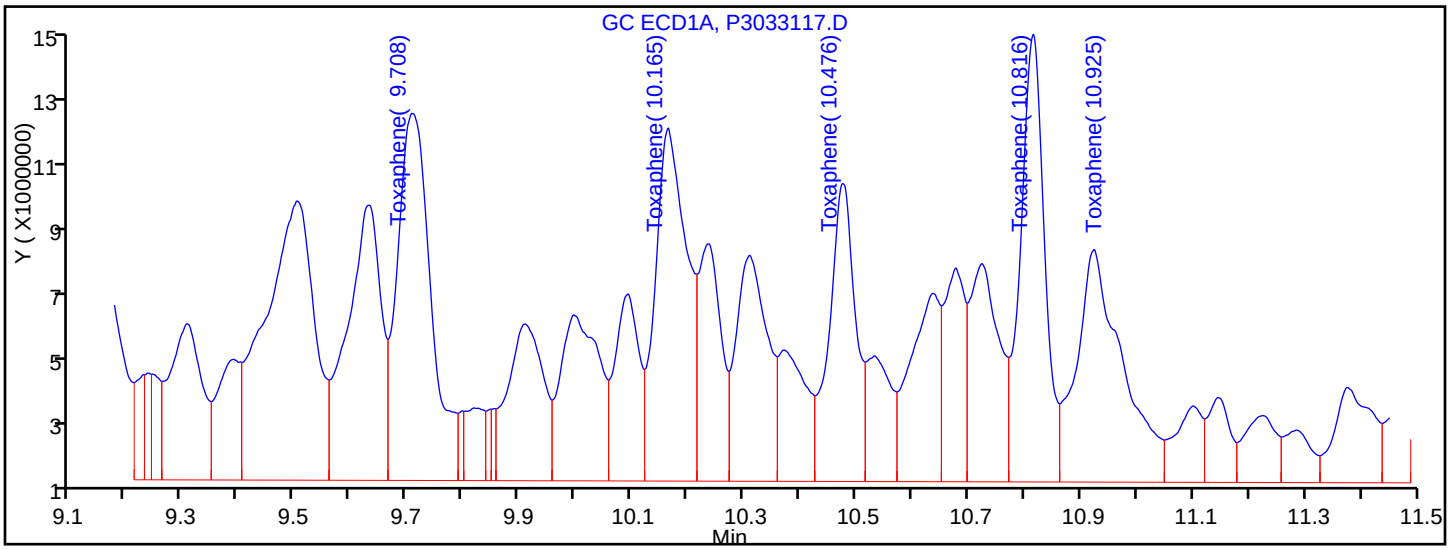
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.708	Response = 37512287	M
RT = 10.165	Response = 35267675	M
RT = 10.476	Response = 24366449	M
RT = 10.816	Response = 34987878	M
RT = 10.925	Response = 32987231	M



Manual Integration Results

RT = 9.708	Response = 42537298	M
RT = 10.165	Response = 38369101	M
RT = 10.476	Response = 26928611	M
RT = 10.816	Response = 37077392	M
RT = 10.925	Response = 36872517	M

Reviewer: matthewsb, 01-Apr-2015 08:40:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	56398		1090	1000	8.8	20.0
Toxaphene Peak 2	Ave	50965	54666		1070	1000	7.3	20.0
Toxaphene Peak 3	Ave	35641	38048		1070	1000	6.8	20.0
Toxaphene Peak 4	Ave	45629	48902		1070	1000	7.2	20.0
Toxaphene Peak 5	Ave	15570	16163		1040	1000	3.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.11	11.08	11.14
Toxaphene Peak 2	11.28	11.25	11.31
Toxaphene Peak 3	11.70	11.67	11.73
Toxaphene Peak 4	12.43	12.40	12.46
Toxaphene Peak 5	12.52	12.49	12.55

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D
Lims ID: ICV TOX
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 17:34:14 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-017
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:40:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	42537298	1000.0	1124.4	M
1	10.165	10.167	-0.002	38369101	1000.0	1047.1	M
1	10.476	10.478	-0.002	26928611	1000.0	1153.0	M
1	10.816	10.814	0.002	37077392	1000.0	1117.6	M
1	10.925	10.922	0.003	36872517	1000.0	1140.5	M
		Average of Peak Amounts =				1116.5	
2	11.110	11.108	0.002	56398273	1000.0	1088.3	M
2	11.275	11.275	0.000	54666334	1000.0	1072.6	M
2	11.698	11.698	0.000	38048417	1000.0	1067.5	M
2	12.433	12.433	0.000	48902236	1000.0	1071.7	M
2	12.523	12.523	0.000	16163268	1000.0	1038.1	M
		Average of Peak Amounts =				1067.7	
						RPD = 4.47	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX ChemS_00004 Amount Added: 100.00 Units: uL

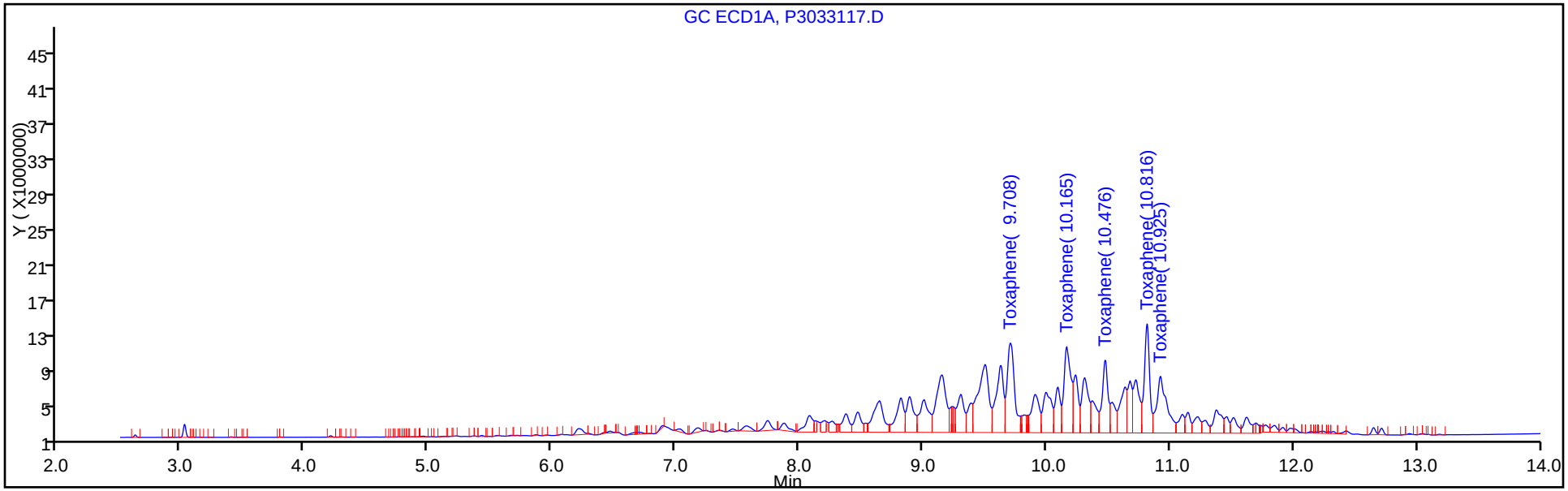
Report Date: 01-Apr-2015 08:57:38 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

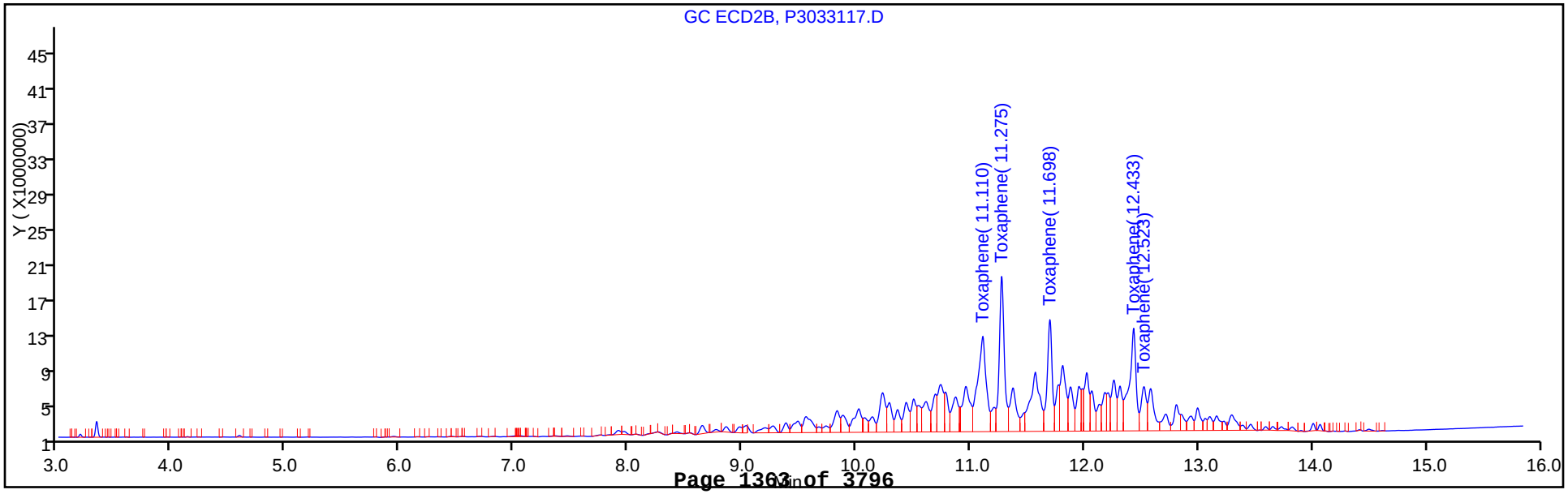
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date:	31-Mar-2015 17:34:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:38 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date: 31-Mar-2015 17:34:14 Instrument ID: A2HP3

Lims ID: ICV TOX

Client ID:

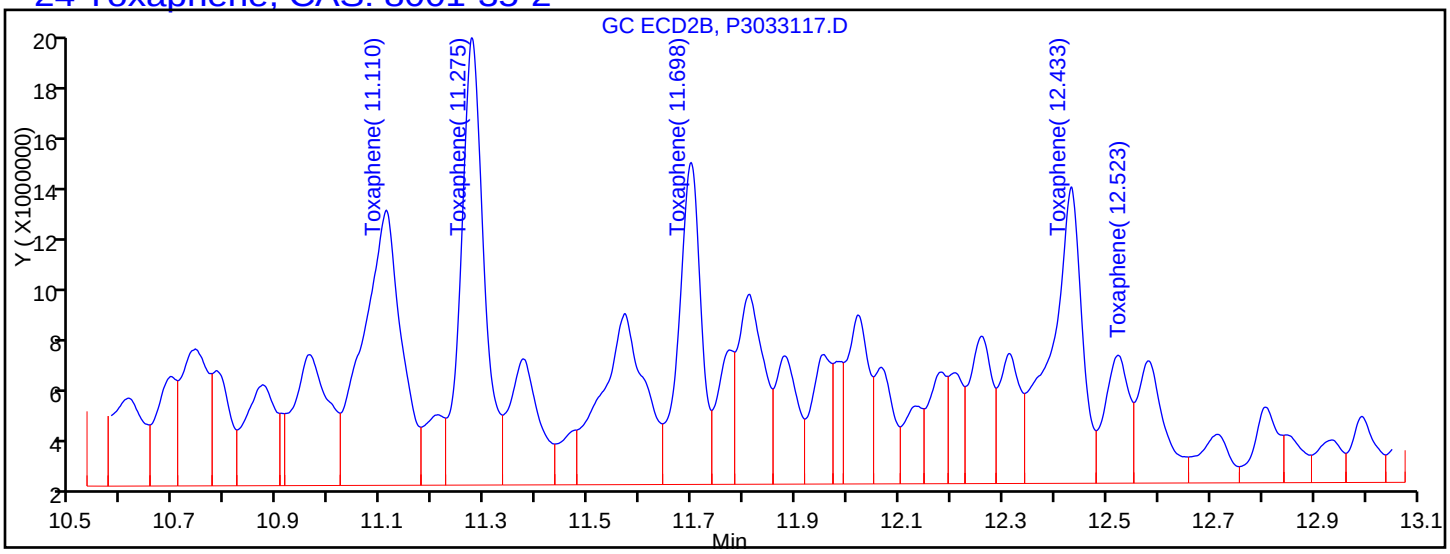
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

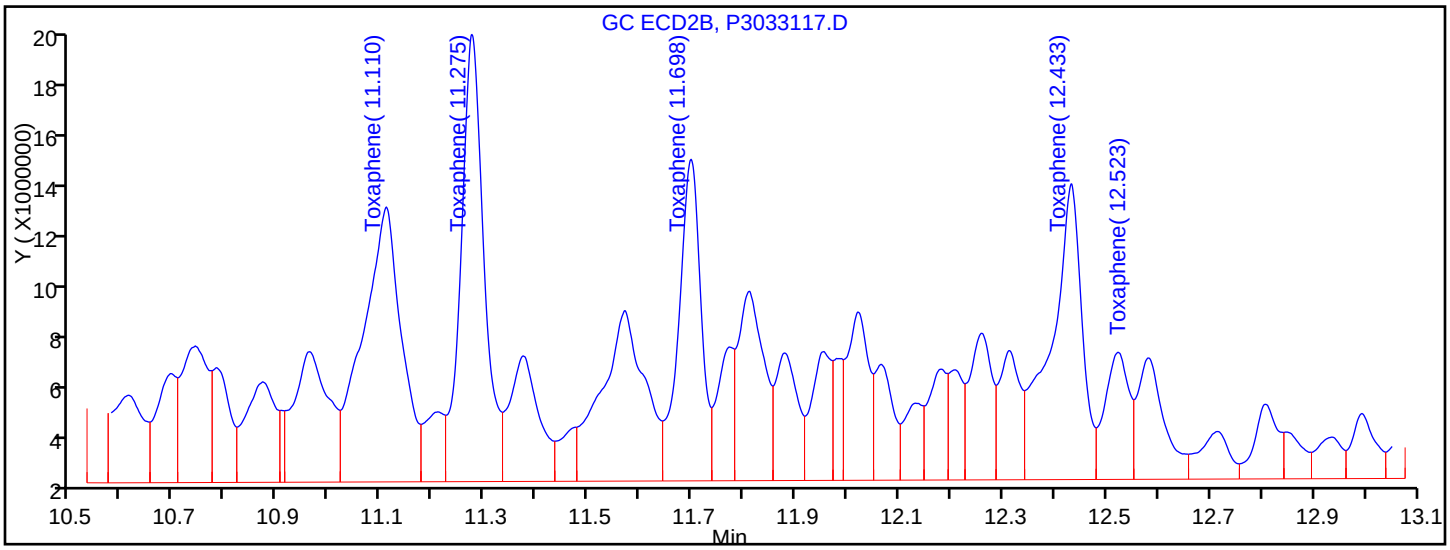
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.110	Response = 56628306	M
RT = 11.275	Response = 54840132	M
RT = 11.698	Response = 38221022	M
RT = 12.433	Response = 49210966	M
RT = 12.523	Response = 16329473	M



Manual Integration Results

RT = 11.110	Response = 56398273	M
RT = 11.275	Response = 54666334	M
RT = 11.698	Response = 38048417	M
RT = 12.433	Response = 48902236	M
RT = 12.523	Response = 16163268	M

Reviewer: matthewsb, 01-Apr-2015 08:42:05

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/23 Calibration Date: 03/31/2015 19:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3033123.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	42787	44384		104	100	3.7	20.0
Chlordane (technical) Peak 2	Ave	49308	53054		108	100	7.6	20.0
Chlordane (technical) Peak 3	Ave	166809	168922		101	100	1.3	20.0
Chlordane (technical) Peak 4	Ave	260084	300542		116	100	15.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/23 Calibration Date: 03/31/2015 19:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3033123.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.23	5.21	5.27
Chlordane (technical) Peak 2	6.14	6.11	6.17
Chlordane (technical) Peak 3	7.46	7.43	7.49
Chlordane (technical) Peak 4	7.79	7.77	7.83

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033123.D
Lims ID: ICV TC
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 19:48:34 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-023
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:52 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:45:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.233	5.235	-0.002	4438395	100.0	103.7	
1	6.139	6.144	-0.005	5305355	100.0	107.6	
1	7.458	7.462	-0.004	16892232	100.0	101.3	
1	7.788	7.795	-0.007	30054209	100.0	115.6	
		Average of Peak Amounts =				107.0	
2	6.428	6.429	-0.001	5407589	100.0	110.5	
2	8.065	8.067	-0.002	6127452	100.0	105.8	
2	9.379	9.381	-0.002	18266395	100.0	103.2	
2	9.676	9.676	0.000	16588859	100.0	104.9	
		Average of Peak Amounts =				106.1	
						RPD = 0.89	

Reagents:

SGPESTTCIV_00006 Amount Added: 100.00 Units: uL

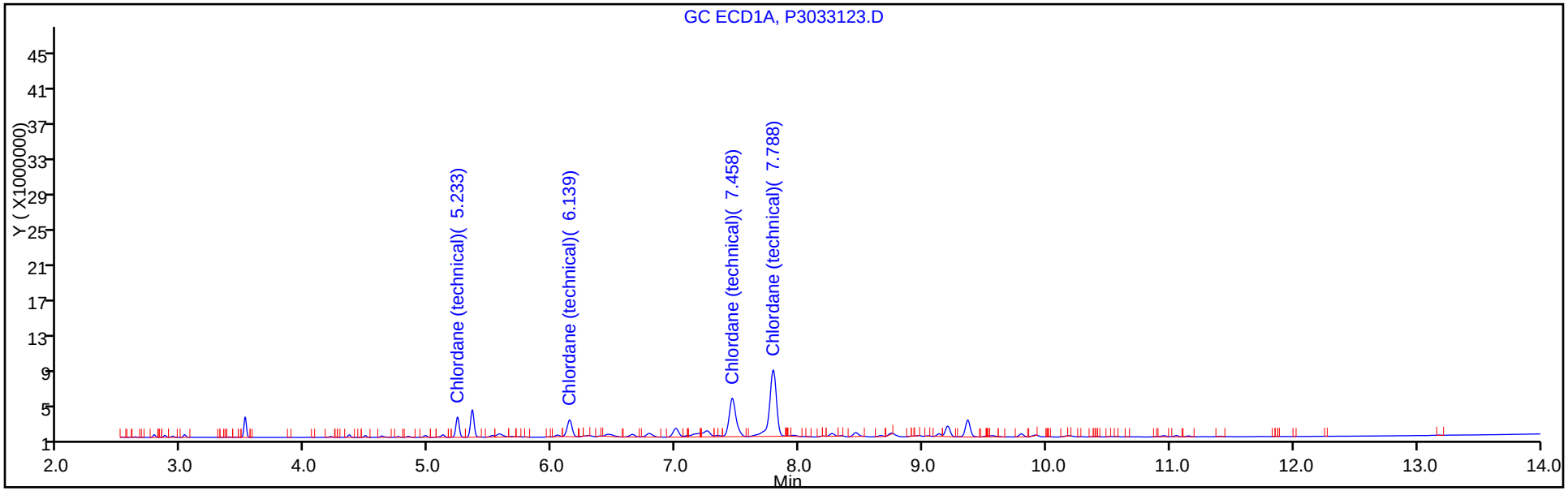
Report Date: 01-Apr-2015 08:57:56 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

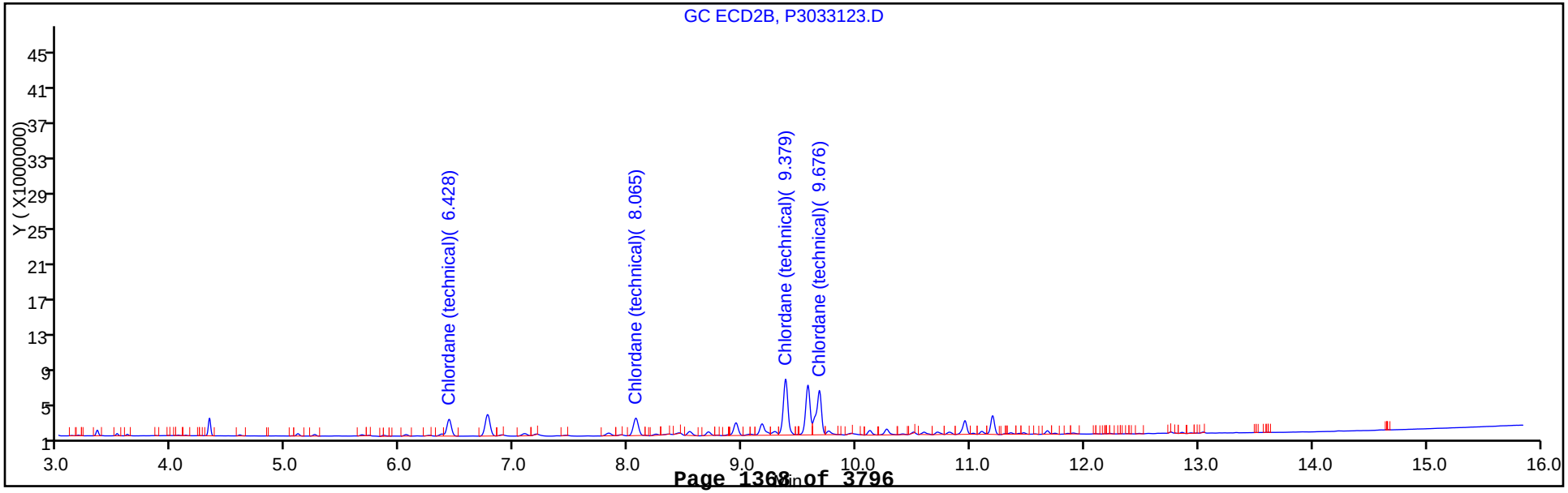
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033123.D

Injection Date:	31-Mar-2015 19:48:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV TC			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/23 Calibration Date: 03/31/2015 19:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3033123.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	48952	54076		110	100	10.5	20.0
Chlordane (technical) Peak 2	Ave	57903	61275		106	100	5.8	20.0
Chlordane (technical) Peak 3	Ave	177058	182664		103	100	3.2	20.0
Chlordane (technical) Peak 4	Ave	158165	165889		105	100	4.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/23 Calibration Date: 03/31/2015 19:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3033123.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.43	6.40	6.46
Chlordane (technical) Peak 2	8.07	8.04	8.10
Chlordane (technical) Peak 3	9.38	9.35	9.41
Chlordane (technical) Peak 4	9.68	9.65	9.71

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033123.D
Lims ID: ICV TC
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 19:48:34 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-023
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:52 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:45:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.233	5.235	-0.002	4438395	100.0	103.7	
1	6.139	6.144	-0.005	5305355	100.0	107.6	
1	7.458	7.462	-0.004	16892232	100.0	101.3	
1	7.788	7.795	-0.007	30054209	100.0	115.6	
		Average of Peak Amounts =				107.0	
2	6.428	6.429	-0.001	5407589	100.0	110.5	
2	8.065	8.067	-0.002	6127452	100.0	105.8	
2	9.379	9.381	-0.002	18266395	100.0	103.2	
2	9.676	9.676	0.000	16588859	100.0	104.9	
		Average of Peak Amounts =				106.1	
						RPD = 0.89	

Reagents:

SGPESTTCIV_00006 Amount Added: 100.00 Units: uL

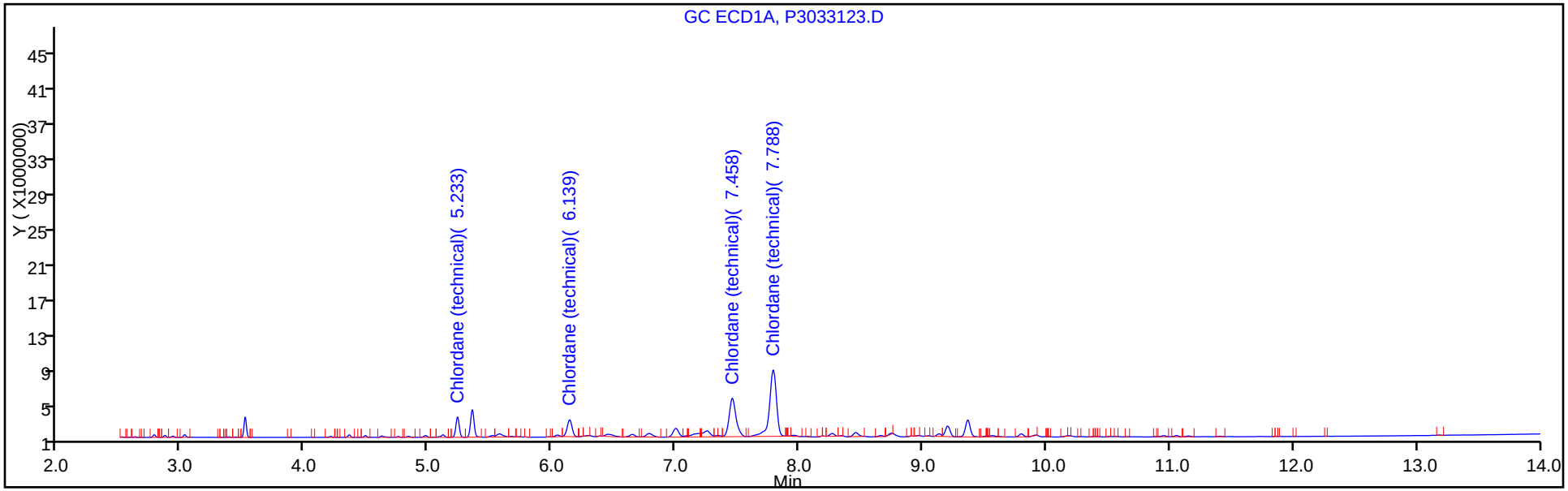
Report Date: 01-Apr-2015 08:57:56 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

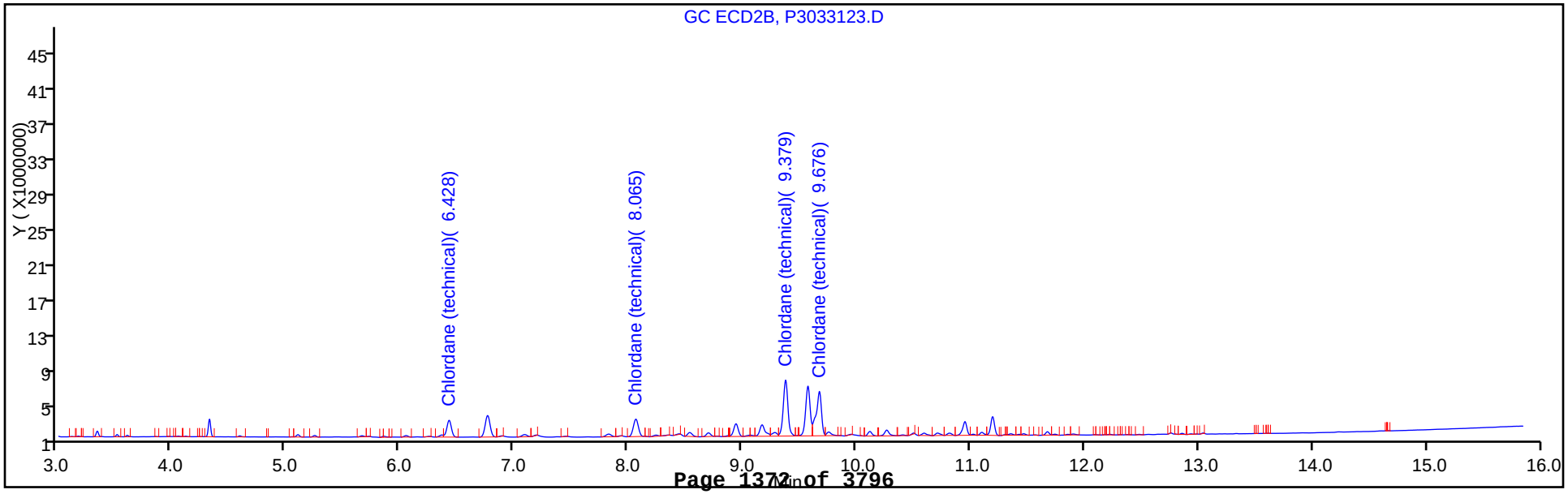
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033123.D

Injection Date:	31-Mar-2015 19:48:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV TC			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1795174		25.9	25.0	3.7	20.0
gamma-BHC (Lindane)	Ave	1543740	1577464		25.5	25.0	2.2	20.0
beta-BHC	Ave	629842	625485		24.8	25.0	-0.7	20.0
delta-BHC	Ave	1502830	1474905		24.5	25.0	-1.9	20.0
Heptachlor	Ave	1459223	1499048		25.7	25.0	2.7	20.0
Aldrin	Ave	1461888	1519074		26.0	25.0	3.9	20.0
Heptachlor epoxide	Ave	1303871	1316658		25.2	25.0	1.0	20.0
gamma-Chlordane	Ave	1350629	1357203		25.1	25.0	0.5	20.0
alpha-Chlordane	Ave	1337609	1348627		25.2	25.0	0.8	20.0
Endosulfan I	Ave	1227519	1204013		24.5	25.0	-1.9	20.0
4,4'-DDE	Ave	1184677	1161392		24.5	25.0	-2.0	20.0
Dieldrin	Ave	1307595	1338260		25.6	25.0	2.3	20.0
Endrin	Ave	1151386	1158992		25.2	25.0	0.7	20.0
4,4'-DDD	Ave	870416	819604		23.5	25.0	-5.8	20.0
Endosulfan II	Ave	1156896	1161400		25.1	25.0	0.4	20.0
4,4'-DDT	Ave	955198	945443		24.7	25.0	-1.0	20.0
Endrin aldehyde	Ave	890839	868728		24.4	25.0	-2.5	20.0
Methoxychlor	Ave	458228	455478		24.8	25.0	-0.6	20.0
Endosulfan sulfate	Ave	996194	1003154		25.2	25.0	0.7	20.0
Endrin ketone	Ave	1221980	1184636		24.2	25.0	-3.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.30	4.27	4.33
gamma-BHC (Lindane)	4.70	4.67	4.73
beta-BHC	4.84	4.81	4.87
delta-BHC	5.06	5.03	5.09
Heptachlor	5.36	5.33	5.39
Aldrin	5.83	5.80	5.86
Heptachlor epoxide	7.14	7.11	7.17
gamma-Chlordane	7.46	7.43	7.49
alpha-Chlordane	7.80	7.77	7.83
Endosulfan I	8.07	8.04	8.10
4,4'-DDE	8.17	8.14	8.20
Dieldrin	8.61	8.58	8.64
Endrin	9.06	9.03	9.09
4,4'-DDD	9.42	9.39	9.45
Endosulfan II	9.51	9.48	9.54
4,4'-DDT	9.92	9.89	9.95
Endrin aldehyde	10.29	10.27	10.33
Methoxychlor	10.87	10.84	10.90
Endosulfan sulfate	11.02	10.99	11.05
Endrin ketone	11.41	11.38	11.44

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D
Lims ID: ICV AB3
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 22:53:01 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-031
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: shockr Date: 02-Apr-2015 15:32:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 alpha-BHC							
1	4.301	4.301	0.000	44879358	25.0	25.9	
2	5.198	5.199	-0.001	50737027	25.0	25.9	
						RPD = 0.02	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	39436605	25.0	25.5	
2	5.837	5.837	0.000	45112830	25.0	25.5	
						RPD = 0.20	
6 beta-BHC							
1	4.835	4.835	0.000	15637116	25.0	24.8	
2	6.039	6.040	-0.001	19020835	25.0	24.8	
						RPD = 0.29	
7 delta-BHC							
1	5.063	5.062	0.001	36872618	25.0	24.5	
2	6.681	6.681	0.000	44536005	25.0	25.1	
						RPD = 2.29	
9 Heptachlor							
1	5.355	5.356	-0.001	37476200	25.0	25.7	
2	6.764	6.765	-0.001	43127307	25.0	25.5	
						RPD = 0.67	
10 Aldrin							
1	5.831	5.833	-0.002	37976852	25.0	26.0	
2	7.584	7.585	-0.001	43002022	25.0	25.7	
						RPD = 1.01	
12 Heptachlor epoxide							
1	7.139	7.141	-0.002	32916451	25.0	25.2	
2	8.992	8.992	0.000	36524385	25.0	25.4	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
13 gamma-Chlordane							
1	7.459	7.462	-0.003	33930076	25.0	25.1	
2	9.381	9.381	0.000	37272758	25.0	25.3	
						RPD = 0.85	
14 alpha-Chlordane							
1	7.799	7.799	0.000	33715682	25.0	25.2	
2	9.676	9.676	0.000	36113014	25.0	25.4	
						RPD = 0.87	
15 Endosulfan I							
1	8.069	8.068	0.001	30100325	25.0	24.5	
2	9.746	9.746	0.000	32598160	25.0	24.7	
						RPD = 0.59	
16 4,4'-DDE							
1	8.166	8.166	0.000	29034811	25.0	24.5	
2	10.097	10.096	0.001	33335661	25.0	25.2	
						RPD = 2.96	
17 Dieldrin							
1	8.613	8.614	-0.001	33456492	25.0	25.6	
2	10.256	10.256	0.000	35043674	25.0	25.6	
						RPD = 0.11	
18 Endrin							
1	9.060	9.061	-0.001	28974803	25.0	25.2	
2	10.768	10.768	0.000	30071663	25.0	24.9	
						RPD = 0.88	
20 4,4'-DDD							
1	9.417	9.415	0.002	20490111	25.0	23.5	
2	11.084	11.083	0.001	24146438	25.0	24.7	
						RPD = 4.70	
21 Endosulfan II							
1	9.507	9.507	0.000	29035012	25.0	25.1	
2	11.134	11.134	0.000	29251300	25.0	25.0	
						RPD = 0.34	
23 4,4'-DDT							
1	9.924	9.924	0.000	23636070	25.0	24.7	
2	11.564	11.565	-0.001	24551771	25.0	24.6	
						RPD = 0.58	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	21718197	25.0	24.4	
2	11.689	11.690	-0.001	22384198	25.0	24.0	
						RPD = 1.70	
27 Methoxychlor							
1	10.869	10.868	0.001	11386945	25.0	24.8	
2	12.628	12.628	0.000	12122347	25.0	24.8	
						RPD = 0.28	
28 Endosulfan sulfate							
1	11.015	11.015	0.000	25078855	25.0	25.2	
2	12.110	12.110	0.000	26415051	25.0	24.9	
						RPD = 0.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Endrin ketone							
1	11.414	11.414	0.000	29615910	25.0	24.2	
2	12.856	12.856	0.000	29229119	25.0	23.8	
						RPD =	1.80

Reagents:

SGPESTABCV_00017 Amount Added: 1.00 Units: mL

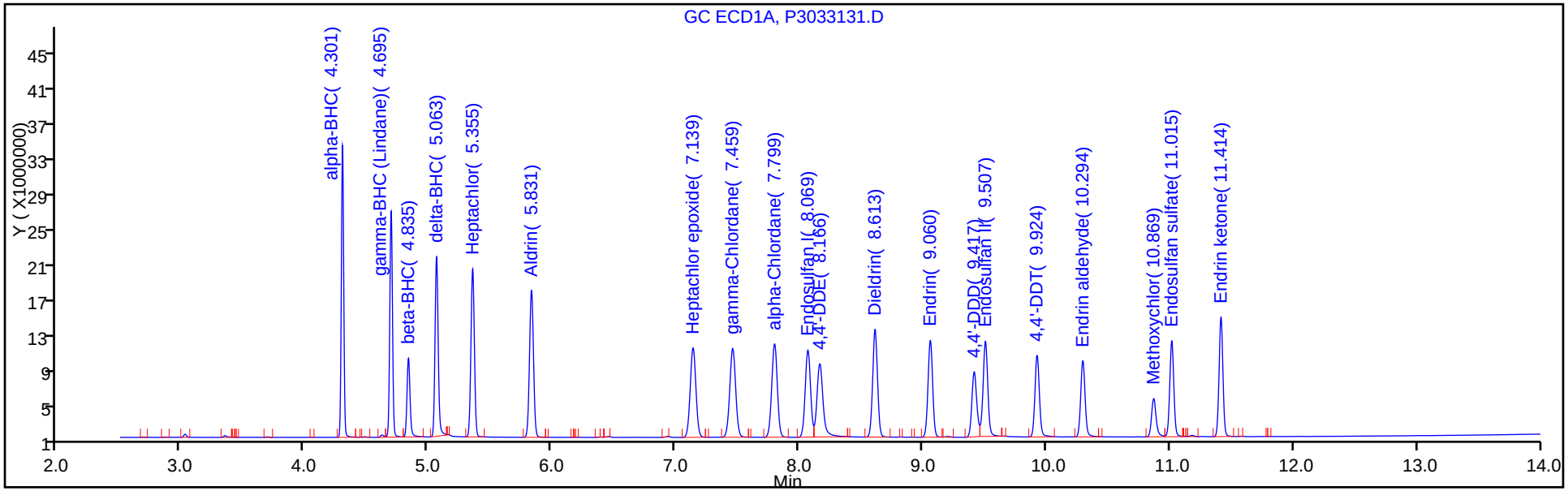
Report Date: 02-Apr-2015 15:32:11 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

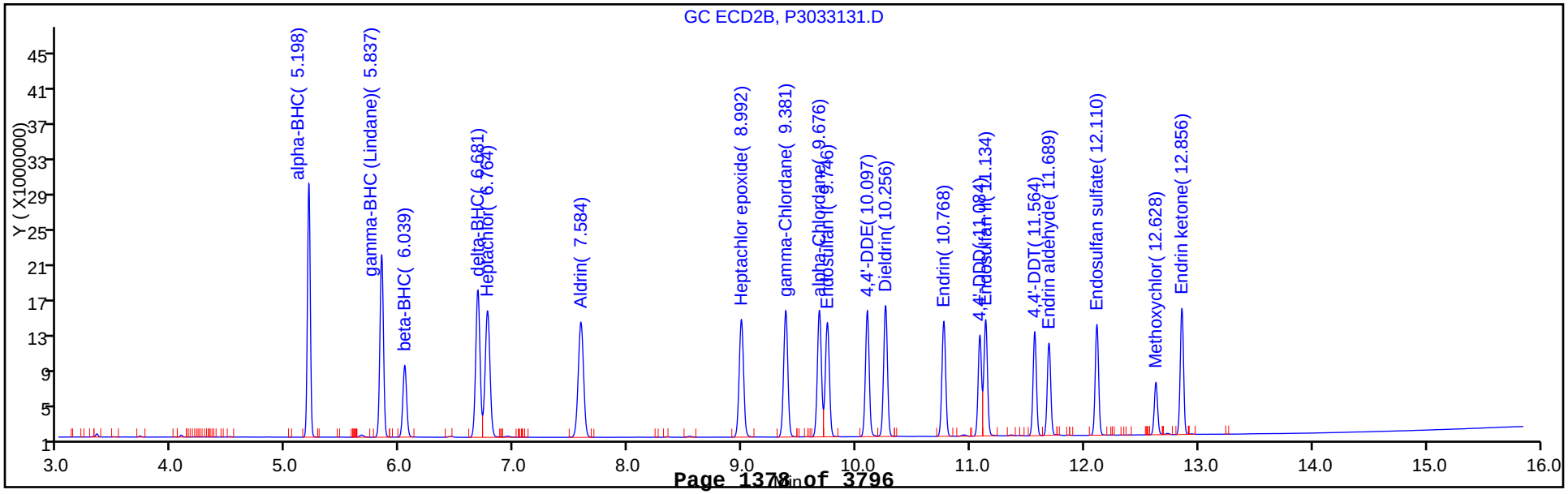
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D

Injection Date:	31-Mar-2015 22:53:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV AB3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2029481		25.9	25.0	3.7	20.0
gamma-BHC (Lindane)	Ave	1769514	1804513		25.5	25.0	2.0	20.0
beta-BHC	Ave	768367	760833		24.8	25.0	-1.0	20.0
delta-BHC	Ave	1774158	1781440		25.1	25.0	0.4	20.0
Heptachlor	Ave	1690527	1725092		25.5	25.0	2.0	20.0
Aldrin	Ave	1672196	1720081		25.7	25.0	2.9	20.0
Heptachlor epoxide	Ave	1435426	1460975		25.4	25.0	1.8	20.0
gamma-Chlordane	Ave	1471152	1490910		25.3	25.0	1.3	20.0
alpha-Chlordane	Ave	1420369	1444521		25.4	25.0	1.7	20.0
Endosulfan I	Ave	1321597	1303926		24.7	25.0	-1.3	20.0
4,4'-DDE	Ave	1320422	1333426		25.2	25.0	1.0	20.0
Dieldrin	Ave	1368089	1401747		25.6	25.0	2.5	20.0
Endrin	Ave	1205577	1202867		24.9	25.0	-0.2	20.0
4,4'-DDD	Ave	978644	965858		24.7	25.0	-1.3	20.0
Endosulfan II	Ave	1169425	1170052		25.0	25.0	0.0	20.0
4,4'-DDT	Ave	997996	982071		24.6	25.0	-1.6	20.0
Endrin aldehyde	Ave	933862	895368		24.0	25.0	-4.1	20.0
Endosulfan sulfate	Ave	1059131	1056602		24.9	25.0	-0.2	20.0
Methoxychlor	Ave	489196	484894		24.8	25.0	-0.9	20.0
Endrin ketone	Ave	1227876	1169165		23.8	25.0	-4.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.20	5.17	5.23
gamma-BHC (Lindane)	5.84	5.81	5.87
beta-BHC	6.04	6.01	6.07
delta-BHC	6.68	6.65	6.71
Heptachlor	6.76	6.74	6.80
Aldrin	7.58	7.56	7.62
Heptachlor epoxide	8.99	8.96	9.02
gamma-Chlordane	9.38	9.35	9.41
alpha-Chlordane	9.68	9.65	9.71
Endosulfan I	9.75	9.72	9.78
4,4'-DDE	10.10	10.07	10.13
Dieldrin	10.26	10.23	10.29
Endrin	10.77	10.74	10.80
4,4'-DDD	11.08	11.05	11.11
Endosulfan II	11.13	11.10	11.16
4,4'-DDT	11.56	11.54	11.60
Endrin aldehyde	11.69	11.66	11.72
Endosulfan sulfate	12.11	12.08	12.14
Methoxychlor	12.63	12.60	12.66
Endrin ketone	12.86	12.83	12.89

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D
Lims ID: ICV AB3
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 22:53:01 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-031
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: shockr Date: 02-Apr-2015 15:32:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 alpha-BHC							
1	4.301	4.301	0.000	44879358	25.0	25.9	
2	5.198	5.199	-0.001	50737027	25.0	25.9	
						RPD = 0.02	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	39436605	25.0	25.5	
2	5.837	5.837	0.000	45112830	25.0	25.5	
						RPD = 0.20	
6 beta-BHC							
1	4.835	4.835	0.000	15637116	25.0	24.8	
2	6.039	6.040	-0.001	19020835	25.0	24.8	
						RPD = 0.29	
7 delta-BHC							
1	5.063	5.062	0.001	36872618	25.0	24.5	
2	6.681	6.681	0.000	44536005	25.0	25.1	
						RPD = 2.29	
9 Heptachlor							
1	5.355	5.356	-0.001	37476200	25.0	25.7	
2	6.764	6.765	-0.001	43127307	25.0	25.5	
						RPD = 0.67	
10 Aldrin							
1	5.831	5.833	-0.002	37976852	25.0	26.0	
2	7.584	7.585	-0.001	43002022	25.0	25.7	
						RPD = 1.01	
12 Heptachlor epoxide							
1	7.139	7.141	-0.002	32916451	25.0	25.2	
2	8.992	8.992	0.000	36524385	25.0	25.4	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
13 gamma-Chlordane							
1	7.459	7.462	-0.003	33930076	25.0	25.1	
2	9.381	9.381	0.000	37272758	25.0	25.3	
						RPD = 0.85	
14 alpha-Chlordane							
1	7.799	7.799	0.000	33715682	25.0	25.2	
2	9.676	9.676	0.000	36113014	25.0	25.4	
						RPD = 0.87	
15 Endosulfan I							
1	8.069	8.068	0.001	30100325	25.0	24.5	
2	9.746	9.746	0.000	32598160	25.0	24.7	
						RPD = 0.59	
16 4,4'-DDE							
1	8.166	8.166	0.000	29034811	25.0	24.5	
2	10.097	10.096	0.001	33335661	25.0	25.2	
						RPD = 2.96	
17 Dieldrin							
1	8.613	8.614	-0.001	33456492	25.0	25.6	
2	10.256	10.256	0.000	35043674	25.0	25.6	
						RPD = 0.11	
18 Endrin							
1	9.060	9.061	-0.001	28974803	25.0	25.2	
2	10.768	10.768	0.000	30071663	25.0	24.9	
						RPD = 0.88	
20 4,4'-DDD							
1	9.417	9.415	0.002	20490111	25.0	23.5	
2	11.084	11.083	0.001	24146438	25.0	24.7	
						RPD = 4.70	
21 Endosulfan II							
1	9.507	9.507	0.000	29035012	25.0	25.1	
2	11.134	11.134	0.000	29251300	25.0	25.0	
						RPD = 0.34	
23 4,4'-DDT							
1	9.924	9.924	0.000	23636070	25.0	24.7	
2	11.564	11.565	-0.001	24551771	25.0	24.6	
						RPD = 0.58	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	21718197	25.0	24.4	
2	11.689	11.690	-0.001	22384198	25.0	24.0	
						RPD = 1.70	
27 Methoxychlor							
1	10.869	10.868	0.001	11386945	25.0	24.8	
2	12.628	12.628	0.000	12122347	25.0	24.8	
						RPD = 0.28	
28 Endosulfan sulfate							
1	11.015	11.015	0.000	25078855	25.0	25.2	
2	12.110	12.110	0.000	26415051	25.0	24.9	
						RPD = 0.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Endrin ketone							
1	11.414	11.414	0.000	29615910	25.0	24.2	
2	12.856	12.856	0.000	29229119	25.0	23.8	
						RPD =	1.80

Reagents:

SGPESTABCV_00017 Amount Added: 1.00 Units: mL

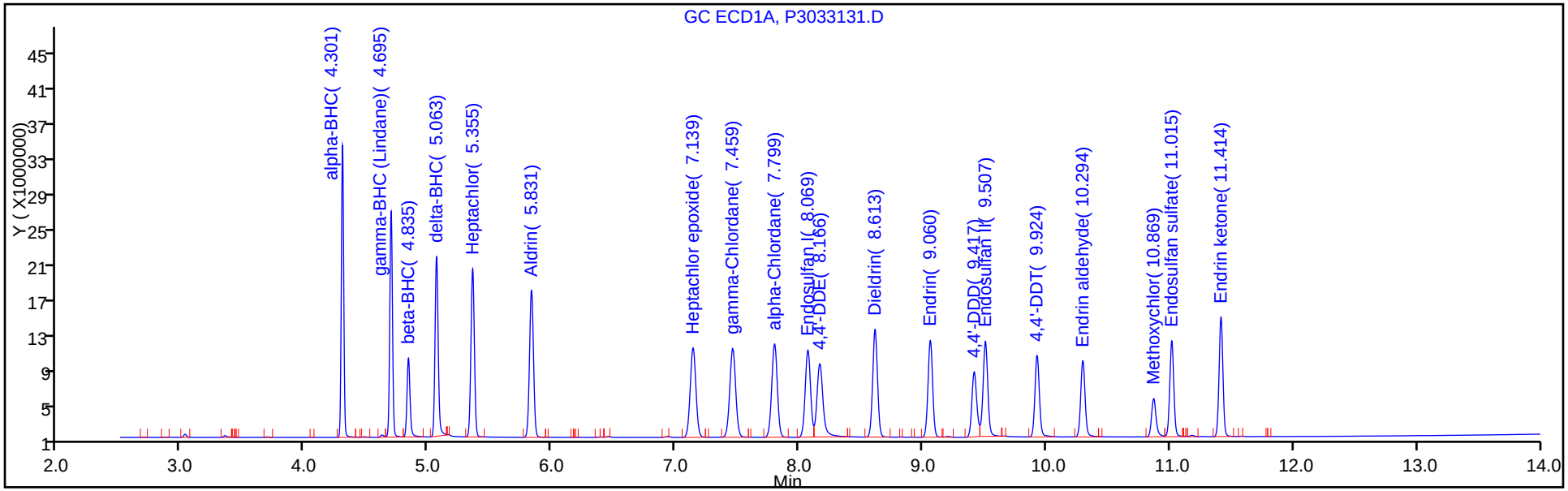
Report Date: 02-Apr-2015 15:32:12 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

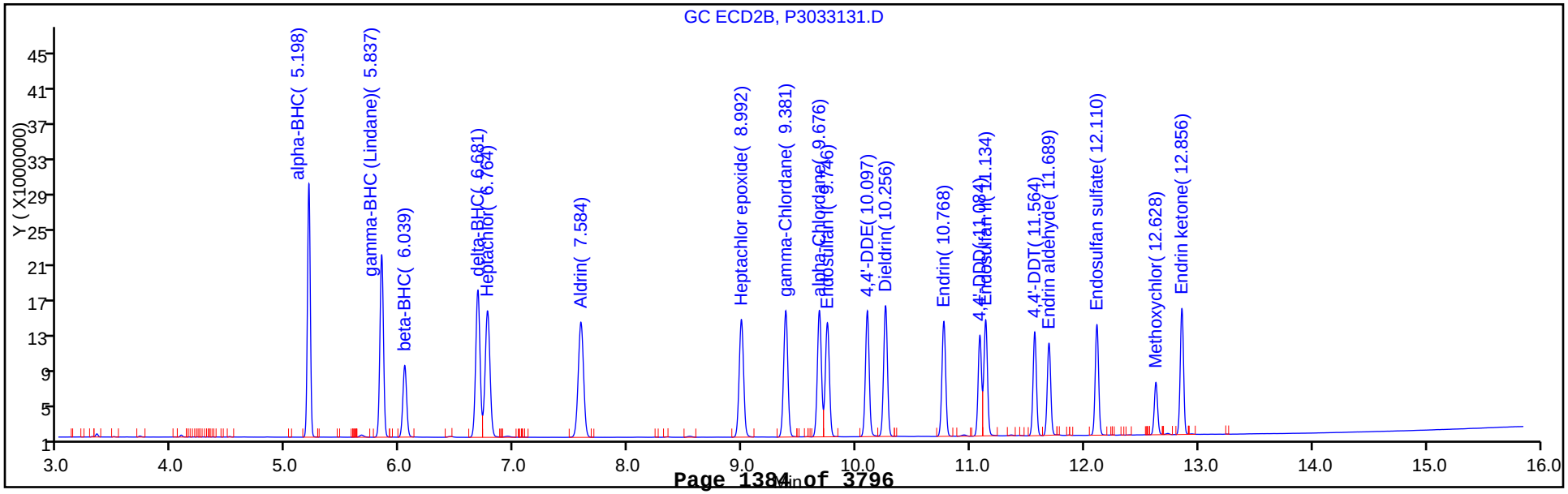
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D

Injection Date:	31-Mar-2015 22:53:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV AB3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/12 Calibration Date: 04/16/2015 17:59

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041612.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	43370		1150	1000	14.6	20.0
Toxaphene Peak 2	Ave	36644	40779		1110	1000	11.3	20.0
Toxaphene Peak 3	Ave	23355	26489		1130	1000	13.4	20.0
Toxaphene Peak 4	Ave	33176	36820		1110	1000	11.0	20.0
Toxaphene Peak 5	Ave	32330	34715		1070	1000	7.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/12 Calibration Date: 04/16/2015 17:59

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041612.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.63	9.60	9.66
Toxaphene Peak 2	10.09	10.06	10.12
Toxaphene Peak 3	10.40	10.37	10.43
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.85	10.82	10.88

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041612.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 16-Apr-2015 17:59:04 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-012
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:47 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:18:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.626	9.626	0.000	43369779	1000.0	1146.4	M
1	10.087	10.087	0.000	40779241	1000.0	1112.8	M
1	10.399	10.399	0.000	26489262	1000.0	1134.2	M
1	10.741	10.741	0.000	36820143	1000.0	1109.8	M
1	10.847	10.847	0.000	34714560	1000.0	1073.7	M
		Average of Peak Amounts =				1115.4	
2	11.033	11.033	0.000	58824812	1000.0	1135.1	M
2	11.200	11.200	0.000	58013252	1000.0	1138.3	M
2	11.624	11.624	0.000	39638031	1000.0	1112.1	M
2	12.359	12.359	0.000	50441384	1000.0	1105.5	M
2	12.449	12.449	0.000	16321946	1000.0	1048.3	M
		Average of Peak Amounts =				1107.9	
						RPD = 0.68	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

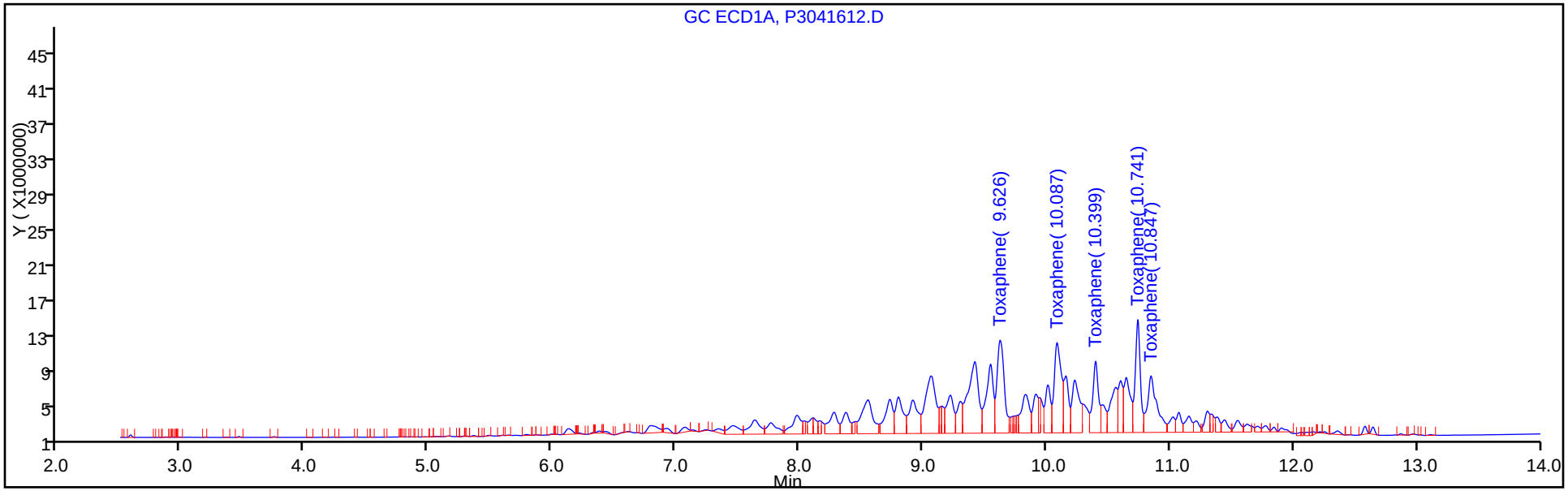
Report Date: 17-Apr-2015 08:37:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

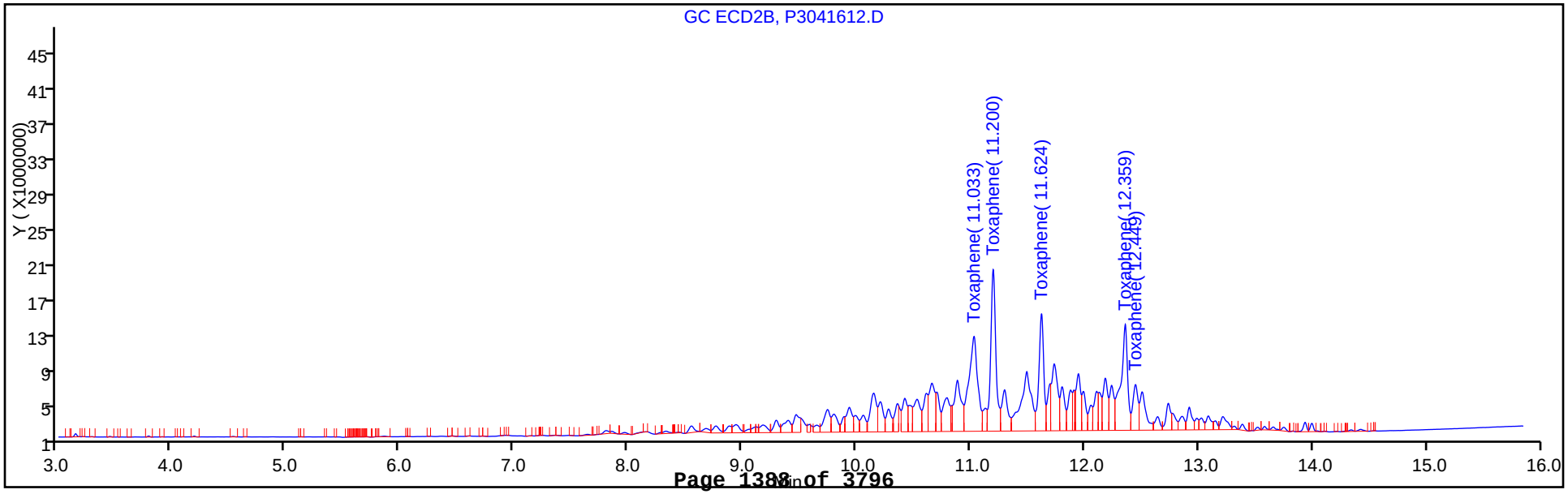
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041612.D

Injection Date:	16-Apr-2015 17:59:04	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

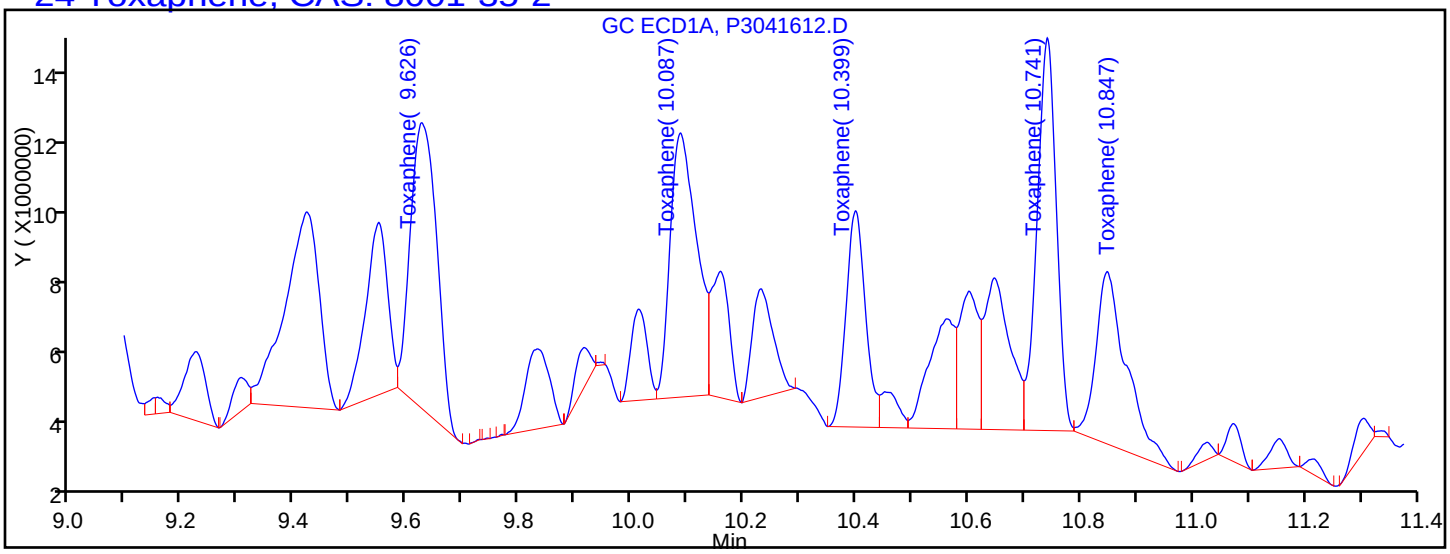


Report Date: 17-Apr-2015 08:37:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

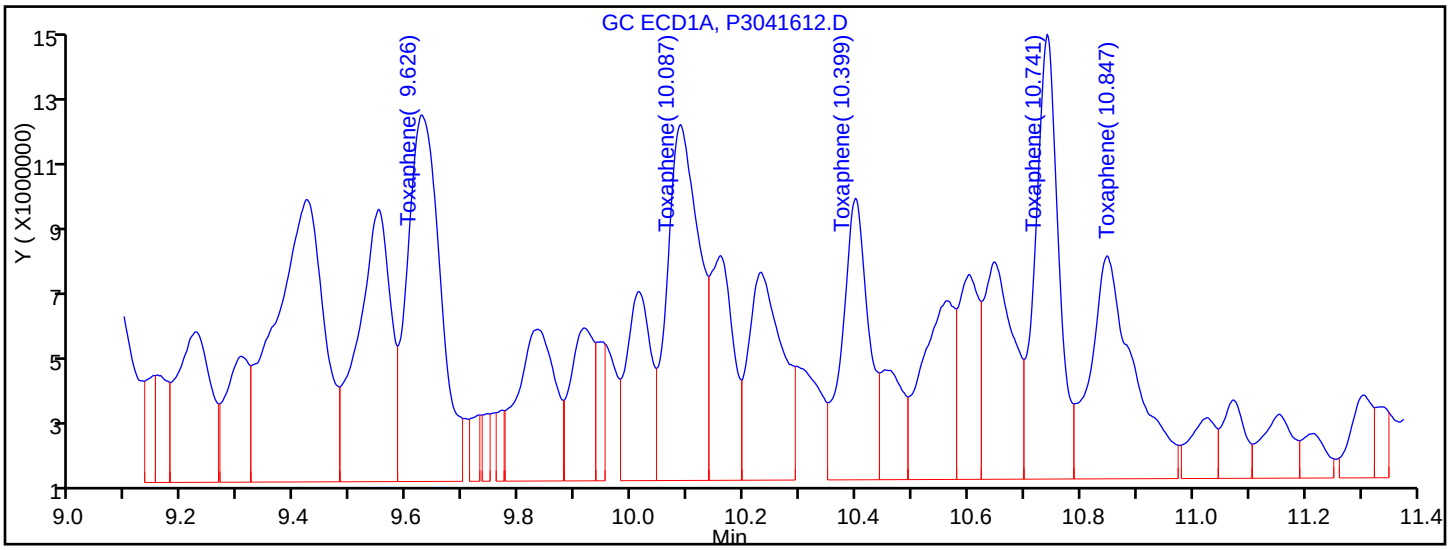
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041612.D
Injection Date: 16-Apr-2015 17:59:04 Instrument ID: A2HP3
Lims ID: CCV TOX3
Client ID:
Operator ID: 430893 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PEST3 Limit Group: GC 8081 D0D ICAL
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.626	Response = 25609197	M
RT = 10.087	Response = 23766690	M
RT = 10.399	Response = 14272413	M
RT = 10.741	Response = 25681256	M
RT = 10.847	Response = 17880713	M



Manual Integration Results

RT = 9.626	Response = 43369779	M
RT = 10.087	Response = 40779241	M
RT = 10.399	Response = 26489262	M
RT = 10.741	Response = 36820143	M
RT = 10.847	Response = 34714560	M

Reviewer: matthewsb, 17-Apr-2015 08:18:33
Audit Action: Assigned New Baseline
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/12 Calibration Date: 04/16/2015 17:59

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041612.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	58825		1140	1000	13.5	20.0
Toxaphene Peak 2	Ave	50965	58013		1140	1000	13.8	20.0
Toxaphene Peak 3	Ave	35641	39638		1110	1000	11.2	20.0
Toxaphene Peak 4	Ave	45629	50441		1110	1000	10.5	20.0
Toxaphene Peak 5	Ave	15570	16322		1050	1000	4.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/12 Calibration Date: 04/16/2015 17:59

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041612.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.03	11.00	11.06
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.36	12.33	12.39
Toxaphene Peak 5	12.45	12.42	12.48

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041612.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 16-Apr-2015 17:59:04 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-012
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:47 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:18:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.626	9.626	0.000	43369779	1000.0	1146.4	M
1	10.087	10.087	0.000	40779241	1000.0	1112.8	M
1	10.399	10.399	0.000	26489262	1000.0	1134.2	M
1	10.741	10.741	0.000	36820143	1000.0	1109.8	M
1	10.847	10.847	0.000	34714560	1000.0	1073.7	M
		Average of Peak Amounts =				1115.4	
2	11.033	11.033	0.000	58824812	1000.0	1135.1	M
2	11.200	11.200	0.000	58013252	1000.0	1138.3	M
2	11.624	11.624	0.000	39638031	1000.0	1112.1	M
2	12.359	12.359	0.000	50441384	1000.0	1105.5	M
2	12.449	12.449	0.000	16321946	1000.0	1048.3	M
		Average of Peak Amounts =				1107.9	
						RPD = 0.68	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

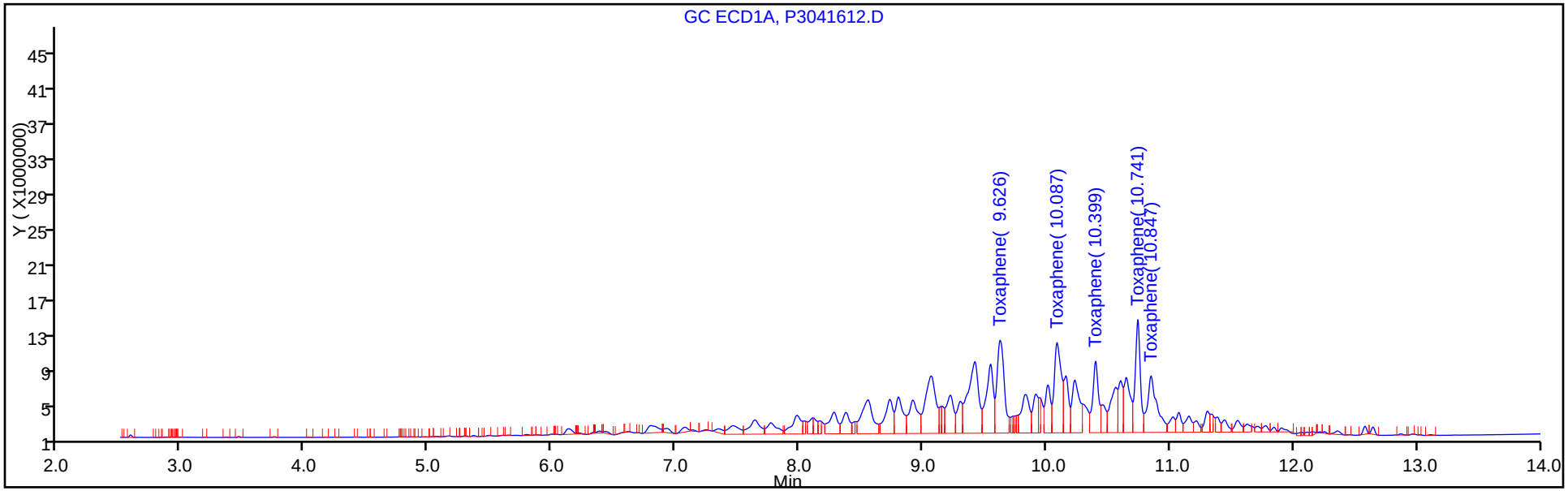
Report Date: 17-Apr-2015 08:37:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

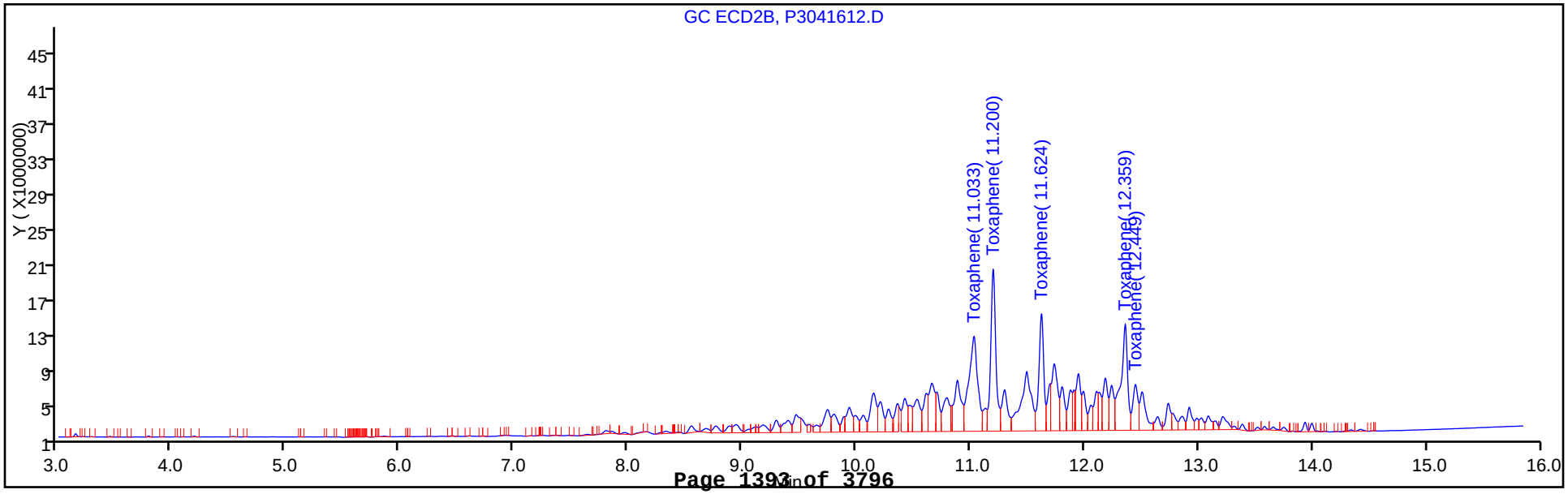
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041612.D

Injection Date:	16-Apr-2015 17:59:04	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2015 08:37:48 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041612.D

Injection Date: 16-Apr-2015 17:59:04 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

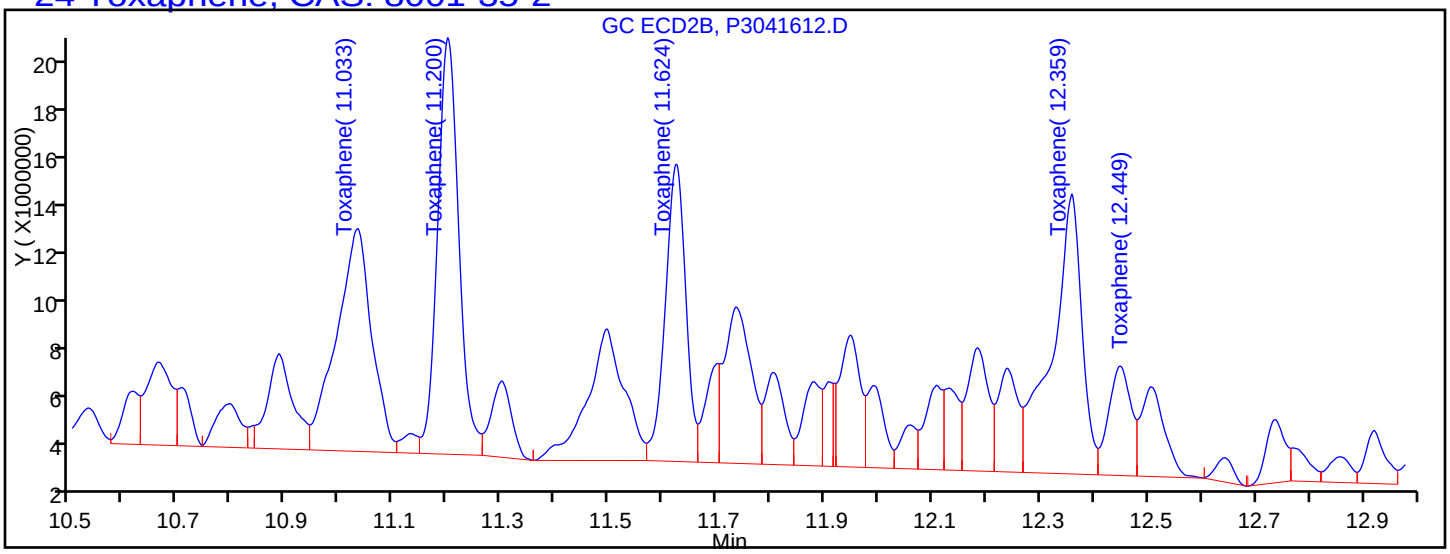
Operator ID: 430893 ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

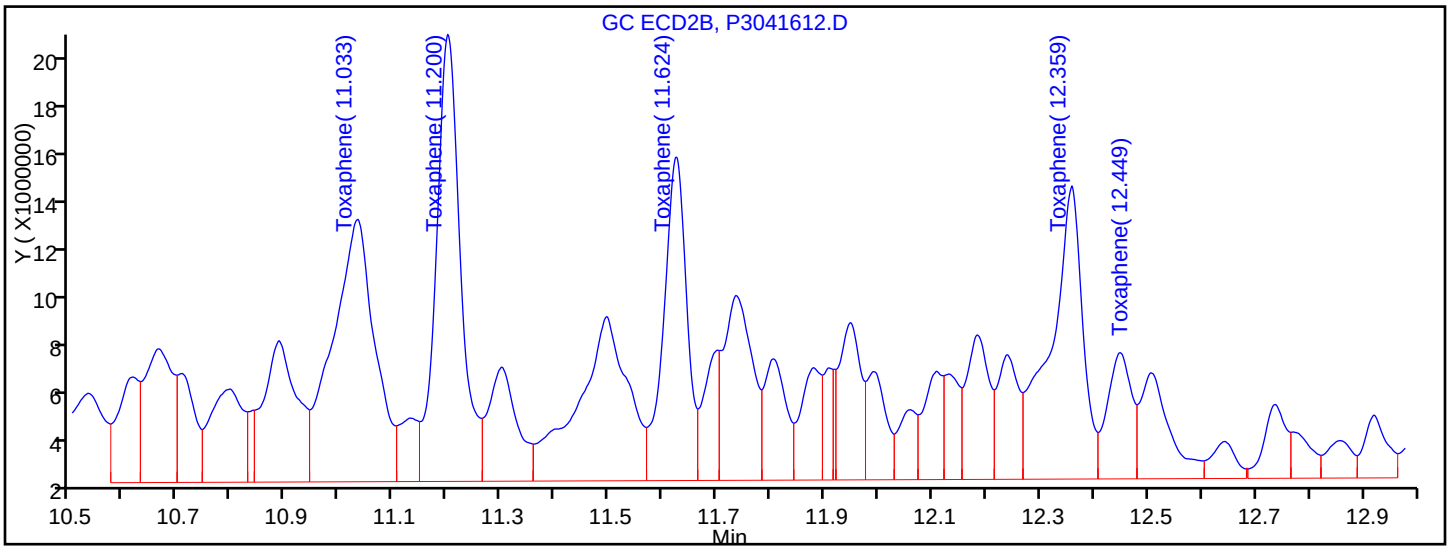
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.033	Response = 40294460	M
RT = 11.200	Response = 45607726	M
RT = 11.624	Response = 31316903	M
RT = 12.359	Response = 42830739	M
RT = 12.449	Response = 12707159	M



Manual Integration Results

RT = 11.033	Response = 58824812	M
RT = 11.200	Response = 58013252	M
RT = 11.624	Response = 39638031	M
RT = 12.359	Response = 50441384	M
RT = 12.449	Response = 16321946	M

Reviewer: matthewsb, 17-Apr-2015 08:18:33

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/14 Calibration Date: 04/16/2015 18:47

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041614.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1926943		27.8	25.0	11.3	20.0
gamma-BHC (Lindane)	Ave	1543740	1721558		27.9	25.0	11.5	20.0
beta-BHC	Ave	629842	691008		27.4	25.0	9.7	20.0
delta-BHC	Ave	1502830	1633994		27.2	25.0	8.7	20.0
Heptachlor	Ave	1459223	1696108		29.1	25.0	16.2	20.0
Aldrin	Ave	1461888	1598714		27.3	25.0	9.4	20.0
Heptachlor epoxide	Ave	1303871	1439592		27.6	25.0	10.4	20.0
gamma-Chlordane	Ave	1350629	1452390		26.9	25.0	7.5	20.0
alpha-Chlordane	Ave	1337609	1446871		27.0	25.0	8.2	20.0
Endosulfan I	Ave	1227519	1353640		27.6	25.0	10.3	20.0
4,4'-DDE	Ave	1184677	1268761		26.8	25.0	7.1	20.0
Dieldrin	Ave	1307595	1450292		27.7	25.0	10.9	20.0
Endrin	Ave	1151386	1348600		29.3	25.0	17.1	20.0
4,4'-DDD	Ave	870416	996299		28.6	25.0	14.5	20.0
Endosulfan II	Ave	1156896	1338793		28.9	25.0	15.7	20.0
4,4'-DDT	Ave	955198	1028382		26.9	25.0	7.7	20.0
Endrin aldehyde	Ave	890839	996900		28.0	25.0	11.9	20.0
Methoxychlor	Ave	458228	548278		29.9	25.0	19.7	20.0
Endosulfan sulfate	Ave	996194	1145125		28.7	25.0	14.9	20.0
Endrin ketone	Ave	1221980	1377222		28.2	25.0	12.7	20.0
Tetrachloro-m-xylene	Ave	983528	1067498		27.1	25.0	8.5	20.0
DCB Decachlorobiphenyl	Ave	936456	1030431		27.5	25.0	10.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/14 Calibration Date: 04/16/2015 18:47

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041614.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.26	4.23	4.29
gamma-BHC (Lindane)	4.65	4.62	4.68
beta-BHC	4.78	4.75	4.81
delta-BHC	5.01	4.98	5.04
Heptachlor	5.29	5.26	5.32
Aldrin	5.76	5.73	5.79
Heptachlor epoxide	7.04	7.01	7.07
gamma-Chlordane	7.35	7.32	7.38
alpha-Chlordane	7.70	7.67	7.73
Endosulfan I	7.97	7.94	8.00
4,4'-DDE	8.07	8.04	8.10
Dieldrin	8.52	8.49	8.55
Endrin	8.97	8.94	9.00
4,4'-DDD	9.33	9.30	9.36
Endosulfan II	9.42	9.39	9.45
4,4'-DDT	9.85	9.82	9.88
Endrin aldehyde	10.22	10.19	10.25
Methoxychlor	10.80	10.77	10.83
Endosulfan sulfate	10.94	10.91	10.97
Endrin ketone	11.34	11.31	11.37
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041614.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 16-Apr-2015 18:47:04 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-014
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:20:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.563	3.563	0.000	26687451	25.0	27.1	
2	4.240	4.240	0.000	30420321	25.0	27.0	
						RPD = 0.53	
4 alpha-BHC							
1	4.258	4.258	0.000	48173563	25.0	27.8	
2	5.134	5.134	0.000	53778516	25.0	27.5	
						RPD = 1.24	
5 gamma-BHC (Lindane)							
1	4.646	4.646	0.000	43038959	25.0	27.9	
2	5.758	5.758	0.000	48531366	25.0	27.4	
						RPD = 1.64	
6 beta-BHC							
1	4.784	4.784	0.000	17275190	25.0	27.4	
2	5.957	5.957	0.000	20885713	25.0	27.2	
						RPD = 0.90	
7 delta-BHC							
1	5.007	5.007	0.000	40849861	25.0	27.2	
2	6.581	6.581	0.000	47519247	25.0	26.8	
						RPD = 1.47	
9 Heptachlor							M
1	5.293	5.293	0.000	42402689	25.0	29.1	M
2	6.663	6.663	0.000	48379128	25.0	28.6	
						RPD = 1.53	
10 Aldrin							
1	5.759	5.759	0.000	39967860	25.0	27.3	
2	7.469	7.469	0.000	44917131	25.0	26.9	
						RPD = 1.77	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.036	7.036	0.000	35989791	25.0	27.6	
2	8.898	8.898	0.000	39649782	25.0	27.6	
						RPD = 0.07	
13 gamma-Chlordane							
1	7.352	7.352	0.000	36309740	25.0	26.9	
2	9.291	9.291	0.000	39523864	25.0	26.9	
						RPD = 0.07	
14 alpha-Chlordane							
1	7.698	7.698	0.000	36171781	25.0	27.0	
2	9.589	9.589	0.000	38673581	25.0	27.2	
						RPD = 0.68	
15 Endosulfan I							
1	7.971	7.971	0.000	33841003	25.0	27.6	
2	9.658	9.658	0.000	36381940	25.0	27.5	
						RPD = 0.14	
16 4,4'-DDE							
1	8.068	8.068	0.000	31719016	25.0	26.8	
2	10.016	10.016	0.000	35762705	25.0	27.1	
						RPD = 1.15	
17 Dieldrin							
1	8.521	8.521	0.000	36257301	25.0	27.7	
2	10.172	10.172	0.000	37586282	25.0	27.5	
						RPD = 0.92	
18 Endrin							
1	8.973	8.973	0.000	33715004	25.0	29.3	
2	10.685	10.685	0.000	34230633	25.0	28.4	
						RPD = 3.08	
20 4,4'-DDD							
1	9.334	9.334	0.000	24907485	25.0	28.6	
2	11.009	11.009	0.000	27036937	25.0	27.6	
						RPD = 3.52	
21 Endosulfan II							
1	9.422	9.422	0.000	33469836	25.0	28.9	
2	11.055	11.055	0.000	34150775	25.0	29.2	
						RPD = 0.94	
23 4,4'-DDT							
1	9.847	9.847	0.000	25709545	25.0	26.9	
2	11.491	11.491	0.000	25957568	25.0	26.0	
						RPD = 3.42	
25 Endrin aldehyde							
1	10.215	10.215	0.000	24922498	25.0	28.0	
2	11.613	11.613	0.000	25866014	25.0	27.7	
						RPD = 1.00	
27 Methoxychlor							
1	10.796	10.796	0.000	13706953	25.0	29.9	
2	12.557	12.557	0.000	13652669	25.0	27.9	
						RPD = 6.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.939	10.939	0.000	28628118	25.0	28.7	
2	12.034	12.034	0.000	29374395	25.0	27.7	
						RPD = 3.55	
29 Endrin ketone							
1	11.338	11.338	0.000	34430543	25.0	28.2	
2	12.779	12.779	0.000	34075652	25.0	27.8	
						RPD = 1.52	
$ 30 DCB Decachlorobiphenyl							
1	12.943	12.943	0.000	25760764	25.0	27.5	
2	14.496	14.496	0.000	27583063	25.0	27.1	
						RPD = 1.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

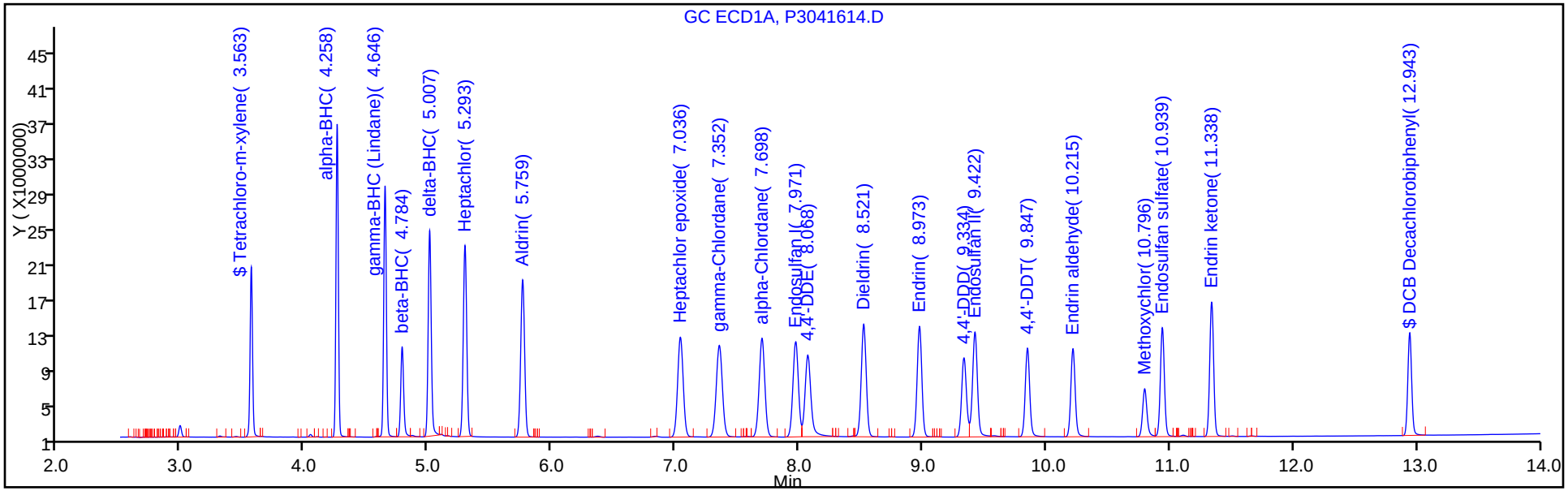
Report Date: 17-Apr-2015 08:37:49 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

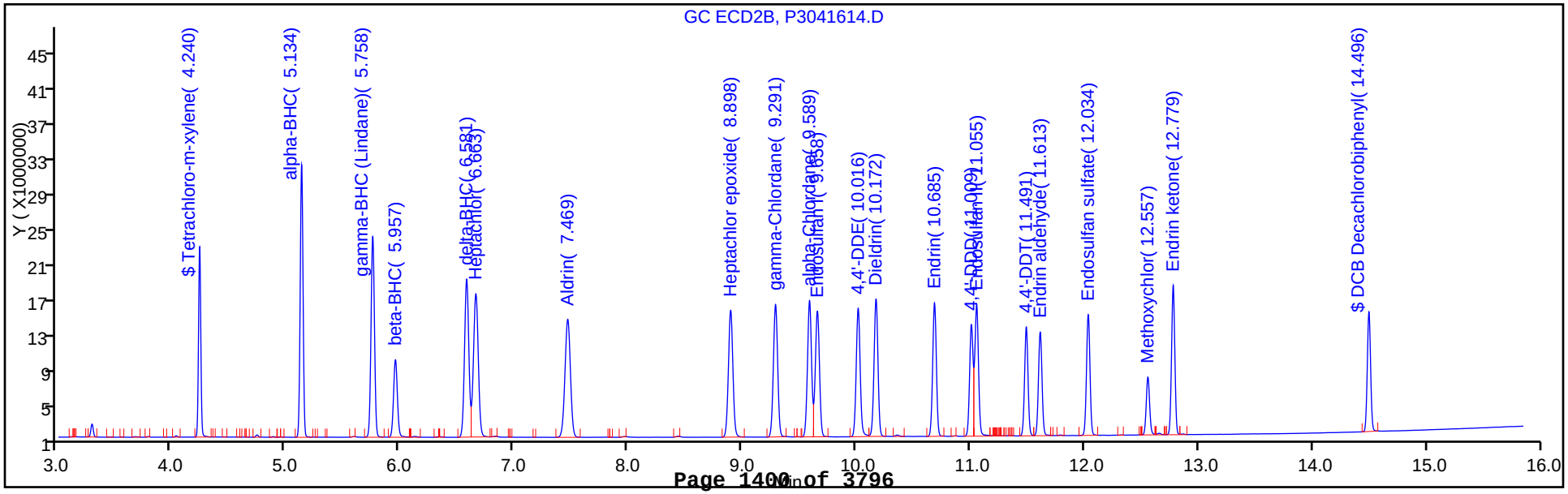
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041614.D

Injection Date:	16-Apr-2015 18:47:04	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

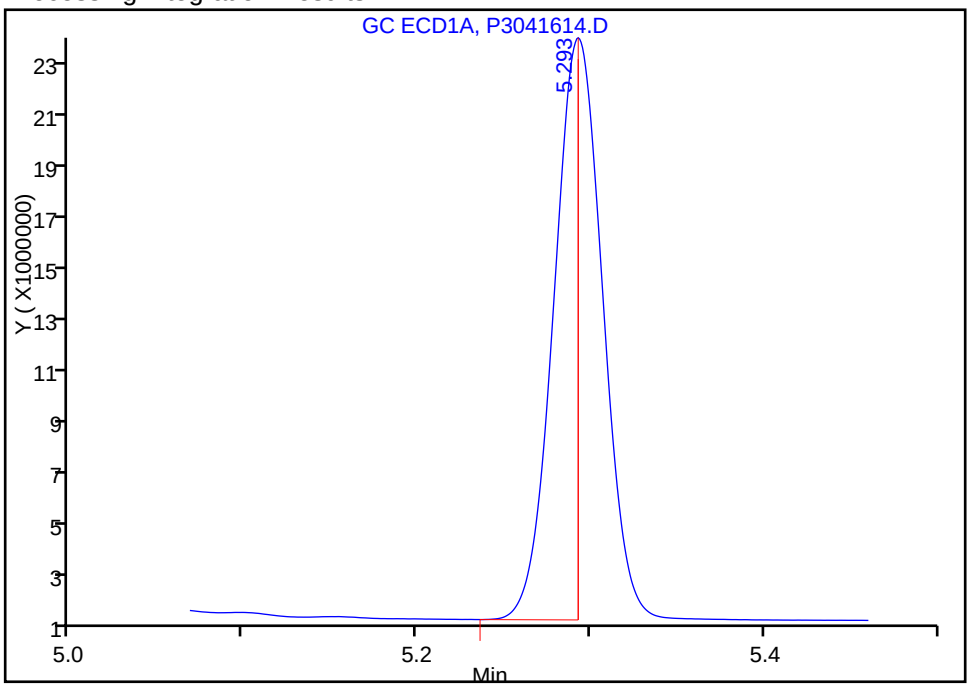
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041614.D
Injection Date: 16-Apr-2015 18:47:04 Instrument ID: A2HP3
Lims ID: CCV AB3
Client ID:
Operator ID: 430893 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PEST3 Limit Group: GC 8081 D0D ICAL
Column: Detector GC ECD1A

9 Heptachlor, CAS: 76-44-8

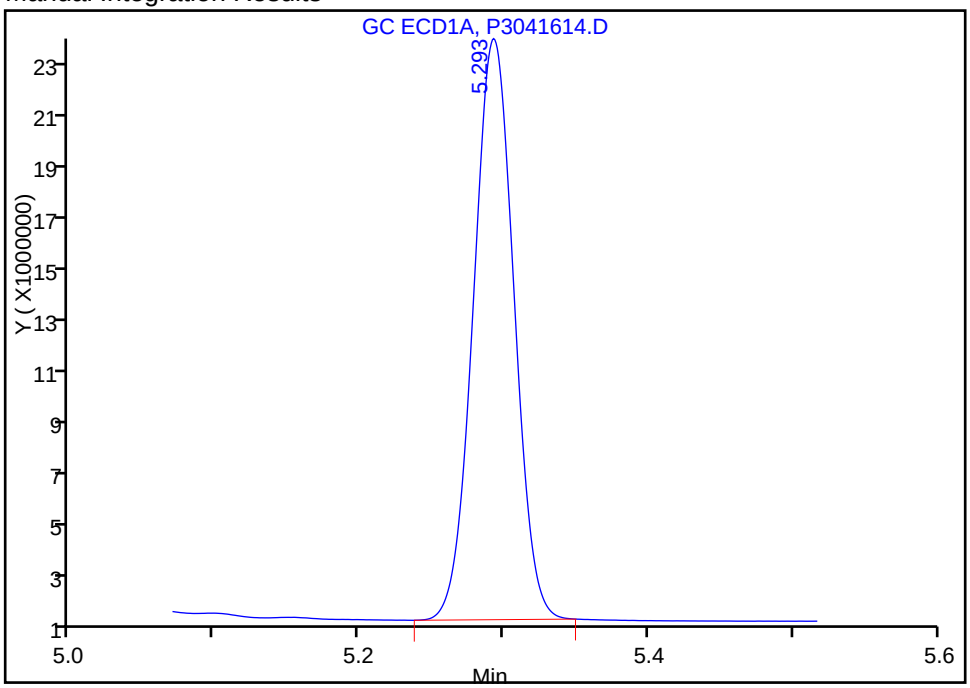
Processing Integration Results

RT: 5.29
Area: 21002233
Amount: 14.392752
Amount Units: ug/l



Manual Integration Results

RT: 5.29
Area: 42402689
Amount: 29.058406
Amount Units: ug/l



Reviewer: matthewsb, 17-Apr-2015 08:20:30
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/14 Calibration Date: 04/16/2015 18:47

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041614.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2151141		27.5	25.0	9.9	20.0
gamma-BHC (Lindane)	Ave	1769514	1941255		27.4	25.0	9.7	20.0
beta-BHC	Ave	768367	835429		27.2	25.0	8.7	20.0
delta-BHC	Ave	1774158	1900770		26.8	25.0	7.1	20.0
Heptachlor	Ave	1690527	1935165		28.6	25.0	14.5	20.0
Aldrin	Ave	1672196	1796685		26.9	25.0	7.4	20.0
Heptachlor epoxide	Ave	1435426	1585991		27.6	25.0	10.5	20.0
gamma-Chlordane	Ave	1471152	1580955		26.9	25.0	7.5	20.0
alpha-Chlordane	Ave	1420369	1546943		27.2	25.0	8.9	20.0
Endosulfan I	Ave	1321597	1455278		27.5	25.0	10.1	20.0
4,4'-DDE	Ave	1320422	1430508		27.1	25.0	8.3	20.0
Dieldrin	Ave	1368089	1503451		27.5	25.0	9.9	20.0
Endrin	Ave	1205577	1369225		28.4	25.0	13.6	20.0
4,4'-DDD	Ave	978644	1081477		27.6	25.0	10.5	20.0
Endosulfan II	Ave	1169425	1366031		29.2	25.0	16.8	20.0
4,4'-DDT	Ave	997996	1038303		26.0	25.0	4.0	20.0
Endrin aldehyde	Ave	933862	1034641		27.7	25.0	10.8	20.0
Endosulfan sulfate	Ave	1059131	1174976		27.7	25.0	10.9	20.0
Methoxychlor	Ave	489196	546107		27.9	25.0	11.6	20.0
Endrin ketone	Ave	1227876	1363026		27.8	25.0	11.0	20.0
Tetrachloro-m-xylene	Ave	1127022	1216813		27.0	25.0	8.0	20.0
DCB Decachlorobiphenyl	Ave	1017987	1103323		27.1	25.0	8.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/14 Calibration Date: 04/16/2015 18:47

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041614.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.76	5.73	5.79
beta-BHC	5.96	5.93	5.99
delta-BHC	6.58	6.55	6.61
Heptachlor	6.66	6.63	6.69
Aldrin	7.47	7.44	7.50
Heptachlor epoxide	8.90	8.87	8.93
gamma-Chlordane	9.29	9.26	9.32
alpha-Chlordane	9.59	9.56	9.62
Endosulfan I	9.66	9.63	9.69
4,4'-DDE	10.02	9.99	10.05
Dieldrin	10.17	10.14	10.20
Endrin	10.69	10.66	10.72
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.06	11.03	11.09
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.56	12.53	12.59
Endrin ketone	12.78	12.75	12.81
Tetrachloro-m-xylene	4.24	4.21	4.27
DCB Decachlorobiphenyl	14.50	14.47	14.53

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041614.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 16-Apr-2015 18:47:04 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-014
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:20:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.563	3.563	0.000	26687451	25.0	27.1	
2	4.240	4.240	0.000	30420321	25.0	27.0	
						RPD = 0.53	
4 alpha-BHC							
1	4.258	4.258	0.000	48173563	25.0	27.8	
2	5.134	5.134	0.000	53778516	25.0	27.5	
						RPD = 1.24	
5 gamma-BHC (Lindane)							
1	4.646	4.646	0.000	43038959	25.0	27.9	
2	5.758	5.758	0.000	48531366	25.0	27.4	
						RPD = 1.64	
6 beta-BHC							
1	4.784	4.784	0.000	17275190	25.0	27.4	
2	5.957	5.957	0.000	20885713	25.0	27.2	
						RPD = 0.90	
7 delta-BHC							
1	5.007	5.007	0.000	40849861	25.0	27.2	
2	6.581	6.581	0.000	47519247	25.0	26.8	
						RPD = 1.47	
9 Heptachlor							M
1	5.293	5.293	0.000	42402689	25.0	29.1	M
2	6.663	6.663	0.000	48379128	25.0	28.6	
						RPD = 1.53	
10 Aldrin							
1	5.759	5.759	0.000	39967860	25.0	27.3	
2	7.469	7.469	0.000	44917131	25.0	26.9	
						RPD = 1.77	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.036	7.036	0.000	35989791	25.0	27.6	
2	8.898	8.898	0.000	39649782	25.0	27.6	
						RPD = 0.07	
13 gamma-Chlordane							
1	7.352	7.352	0.000	36309740	25.0	26.9	
2	9.291	9.291	0.000	39523864	25.0	26.9	
						RPD = 0.07	
14 alpha-Chlordane							
1	7.698	7.698	0.000	36171781	25.0	27.0	
2	9.589	9.589	0.000	38673581	25.0	27.2	
						RPD = 0.68	
15 Endosulfan I							
1	7.971	7.971	0.000	33841003	25.0	27.6	
2	9.658	9.658	0.000	36381940	25.0	27.5	
						RPD = 0.14	
16 4,4'-DDE							
1	8.068	8.068	0.000	31719016	25.0	26.8	
2	10.016	10.016	0.000	35762705	25.0	27.1	
						RPD = 1.15	
17 Dieldrin							
1	8.521	8.521	0.000	36257301	25.0	27.7	
2	10.172	10.172	0.000	37586282	25.0	27.5	
						RPD = 0.92	
18 Endrin							
1	8.973	8.973	0.000	33715004	25.0	29.3	
2	10.685	10.685	0.000	34230633	25.0	28.4	
						RPD = 3.08	
20 4,4'-DDD							
1	9.334	9.334	0.000	24907485	25.0	28.6	
2	11.009	11.009	0.000	27036937	25.0	27.6	
						RPD = 3.52	
21 Endosulfan II							
1	9.422	9.422	0.000	33469836	25.0	28.9	
2	11.055	11.055	0.000	34150775	25.0	29.2	
						RPD = 0.94	
23 4,4'-DDT							
1	9.847	9.847	0.000	25709545	25.0	26.9	
2	11.491	11.491	0.000	25957568	25.0	26.0	
						RPD = 3.42	
25 Endrin aldehyde							
1	10.215	10.215	0.000	24922498	25.0	28.0	
2	11.613	11.613	0.000	25866014	25.0	27.7	
						RPD = 1.00	
27 Methoxychlor							
1	10.796	10.796	0.000	13706953	25.0	29.9	
2	12.557	12.557	0.000	13652669	25.0	27.9	
						RPD = 6.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.939	10.939	0.000	28628118	25.0	28.7	
2	12.034	12.034	0.000	29374395	25.0	27.7	
						RPD = 3.55	
29 Endrin ketone							
1	11.338	11.338	0.000	34430543	25.0	28.2	
2	12.779	12.779	0.000	34075652	25.0	27.8	
						RPD = 1.52	
$ 30 DCB Decachlorobiphenyl							
1	12.943	12.943	0.000	25760764	25.0	27.5	
2	14.496	14.496	0.000	27583063	25.0	27.1	
						RPD = 1.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

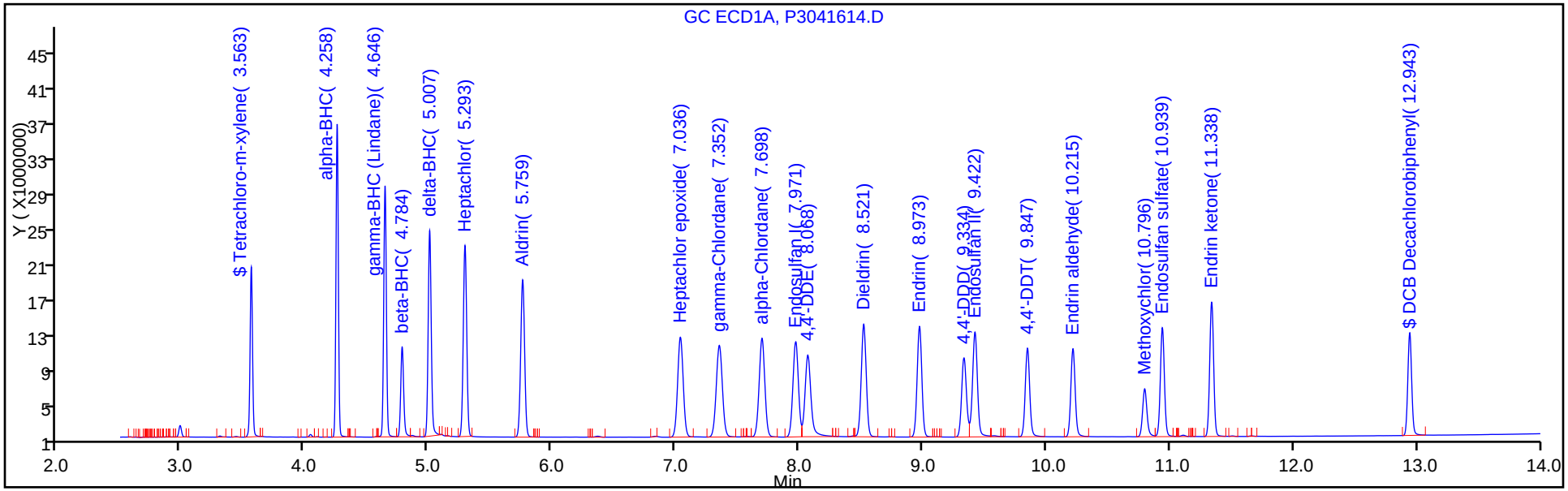
Report Date: 17-Apr-2015 08:37:50 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

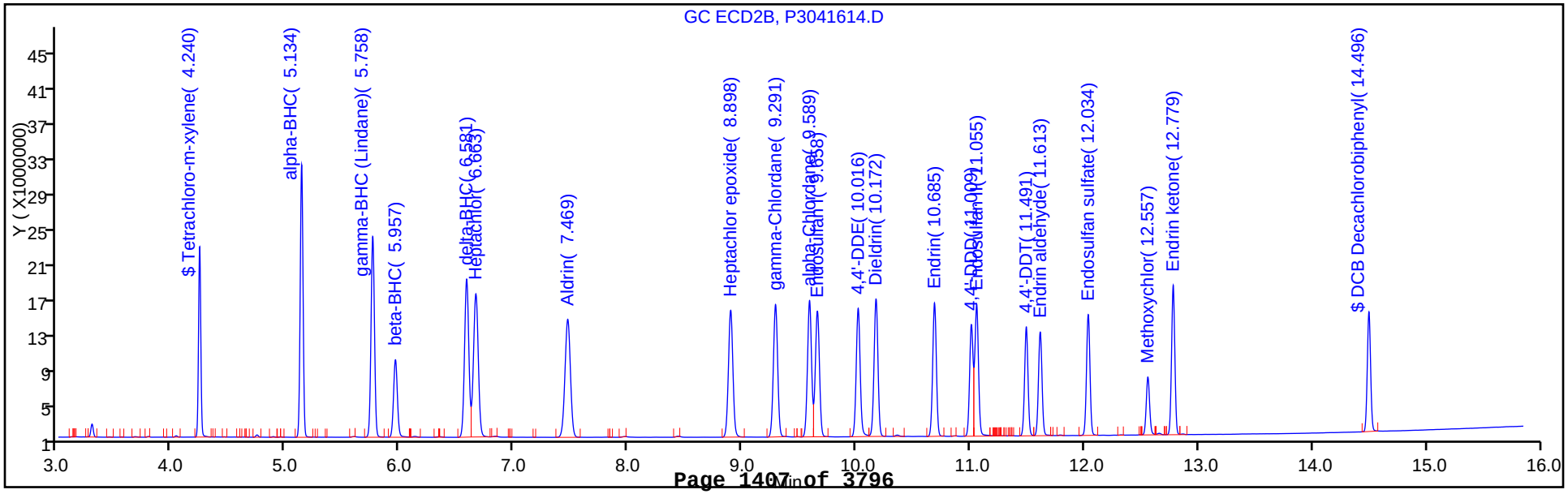
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041614.D

Injection Date:	16-Apr-2015 18:47:04	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/26 Calibration Date: 04/16/2015 23:24

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041626.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1960464		28.3	25.0	13.2	20.0
gamma-BHC (Lindane)	Ave	1543740	1753259		28.4	25.0	13.6	20.0
beta-BHC	Ave	629842	711355		28.2	25.0	12.9	20.0
delta-BHC	Ave	1502830	1748187		29.1	25.0	16.3	20.0
Heptachlor	Ave	1459223	1732484		29.7	25.0	18.7	20.0
Aldrin	Ave	1461888	1622176		27.7	25.0	11.0	20.0
Heptachlor epoxide	Ave	1303871	1471597		28.2	25.0	12.9	20.0
gamma-Chlordane	Ave	1350629	1491406		27.6	25.0	10.4	20.0
alpha-Chlordane	Ave	1337609	1478520		27.6	25.0	10.5	20.0
Endosulfan I	Ave	1227519	1388250		28.3	25.0	13.1	20.0
4,4'-DDE	Ave	1184677	1376984		29.1	25.0	16.2	20.0
Dieldrin	Ave	1307595	1472985		28.2	25.0	12.6	20.0
Endrin	Ave	1151386	1378606		29.9	25.0	19.7	20.0
4,4'-DDD	Ave	870416	1169696		33.6	25.0	34.4*	20.0
Endosulfan II	Ave	1156896	1293771		28.0	25.0	11.8	20.0
4,4'-DDT	Ave	955198	1010550		26.4	25.0	5.8	20.0
Endrin aldehyde	Ave	890839	1003886		28.2	25.0	12.7	20.0
Methoxychlor	Ave	458228	549195		30.0	25.0	19.9	20.0
Endosulfan sulfate	Ave	996194	1133752		28.5	25.0	13.8	20.0
Endrin ketone	Ave	1221980	1354042		27.7	25.0	10.8	20.0
Tetrachloro-m-xylene	Ave	983528	1084950		27.6	25.0	10.3	20.0
DCB Decachlorobiphenyl	Ave	936456	1050816		28.1	25.0	12.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/26 Calibration Date: 04/16/2015 23:24

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041626.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.29	5.26	5.32
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.03	7.00	7.06
gamma-Chlordane	7.35	7.32	7.38
alpha-Chlordane	7.69	7.66	7.72
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.06	8.03	8.09
Dieldrin	8.52	8.49	8.55
Endrin	8.97	8.94	9.00
4,4'-DDD	9.33	9.30	9.36
Endosulfan II	9.42	9.39	9.45
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.79	10.76	10.82
Endosulfan sulfate	10.94	10.91	10.97
Endrin ketone	11.34	11.31	11.37
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041626.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2015 23:24:48 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-026
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:04 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:29:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.559	0.000	27123753	25.0	27.6	
2	4.240	4.240	0.000	29943169	25.0	26.6	
						RPD = 3.73	
4 alpha-BHC							
1	4.254	4.254	0.000	49011599	25.0	28.3	
2	5.135	5.135	0.000	53663018	25.0	27.4	
						RPD = 3.18	
5 gamma-BHC (Lindane)							
1	4.642	4.642	0.000	43831470	25.0	28.4	
2	5.759	5.759	0.000	48445996	25.0	27.4	
						RPD = 3.64	
6 beta-BHC							
1	4.779	4.779	0.000	17783877	25.0	28.2	
2	5.957	5.957	0.000	20845468	25.0	27.1	
						RPD = 3.99	
7 delta-BHC							
1	5.002	5.002	0.000	43704681	25.0	29.1	
2	6.582	6.582	0.000	49091107	25.0	27.7	
						RPD = 4.97	
9 Heptachlor							
1	5.289	5.289	0.000	43312092	25.0	29.7	
2	6.664	6.664	0.000	48512576	25.0	28.7	
						RPD = 3.37	
10 Aldrin							
1	5.754	5.754	0.000	40554401	25.0	27.7	
2	7.469	7.469	0.000	45091160	25.0	27.0	
						RPD = 2.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.029	7.029	0.000	36789934	25.0	28.2	
2	8.898	8.898	0.000	39284818	25.0	27.4	
						RPD = 3.05	
13 gamma-Chlordane							
1	7.346	7.346	0.000	37285142	25.0	27.6	
2	9.292	9.292	0.000	38785401	25.0	26.4	
						RPD = 4.60	
14 alpha-Chlordane							
1	7.691	7.691	0.000	36962996	25.0	27.6	
2	9.590	9.590	0.000	37618991	25.0	26.5	
						RPD = 4.24	
15 Endosulfan I							
1	7.964	7.964	0.000	34706251	25.0	28.3	
2	9.658	9.658	0.000	35747308	25.0	27.0	
						RPD = 4.43	
16 4,4'-DDE							
1	8.061	8.061	0.000	34424602	25.0	29.1	
2	10.016	10.016	0.000	35744042	25.0	27.1	
						RPD = 7.08	
17 Dieldrin							
1	8.516	8.516	0.000	36824620	25.0	28.2	
2	10.172	10.172	0.000	36358963	25.0	26.6	
						RPD = 5.79	
18 Endrin							
1	8.969	8.969	0.000	34465160	25.0	29.9	
2	10.684	10.684	0.000	33442493	25.0	27.7	
						RPD = 7.61	
20 4,4'-DDD							
1	9.328	9.328	0.000	29242404	25.0	33.6	
2	11.008	11.008	0.000	29105197	25.0	29.7	
						RPD = 12.17	
21 Endosulfan II							
1	9.418	9.418	0.000	32344277	25.0	28.0	
2	11.054	11.054	0.000	31049104	25.0	26.6	
						RPD = 5.16	
23 4,4'-DDT							
1	9.843	9.843	0.000	25263739	25.0	26.4	
2	11.490	11.490	0.000	24141235	25.0	24.2	
						RPD = 8.92	
25 Endrin aldehyde							
1	10.212	10.212	0.000	25097161	25.0	28.2	
2	11.613	11.613	0.000	24929770	25.0	26.7	
						RPD = 5.38	
27 Methoxychlor							
1	10.792	10.792	0.000	13729865	25.0	30.0	
2	12.556	12.556	0.000	13072540	25.0	26.7	
						RPD = 11.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.936	10.936	0.000	28343796	25.0	28.5	
2	12.034	12.034	0.000	28703247	25.0	27.1	
						RPD = 4.87	
29 Endrin ketone							
1	11.335	11.335	0.000	33851057	25.0	27.7	
2	12.778	12.778	0.000	32815692	25.0	26.7	
						RPD = 3.59	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	26270391	25.0	28.1	
2	14.496	14.496	0.000	27404807	25.0	26.9	
						RPD = 4.12	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

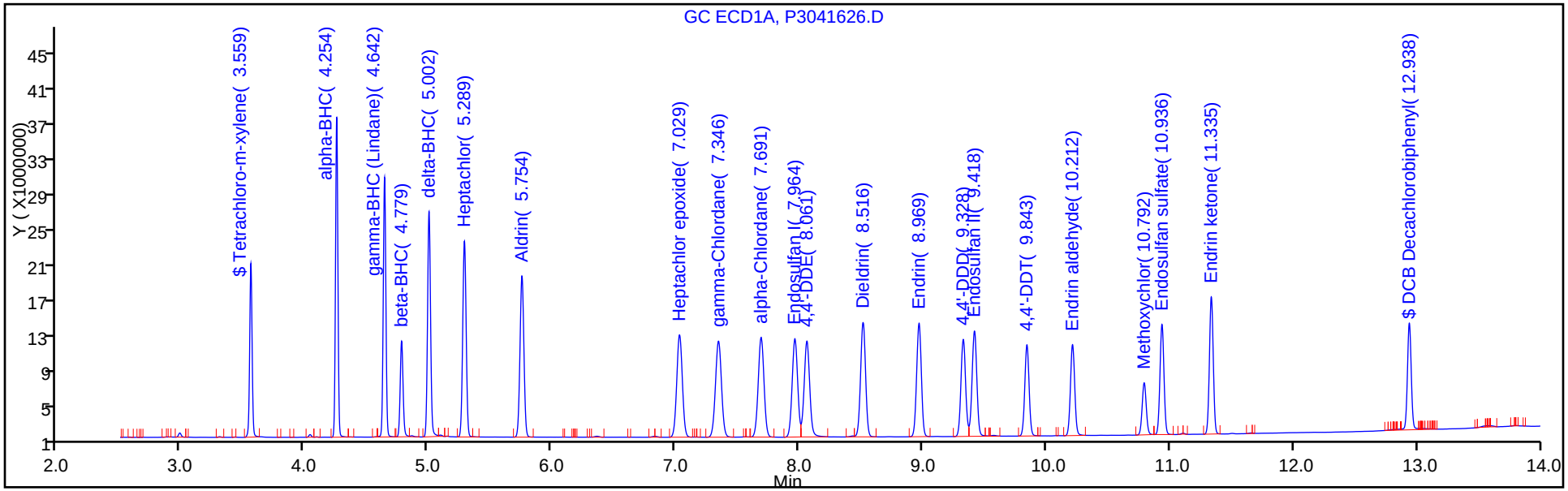
Report Date: 17-Apr-2015 08:38:04 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

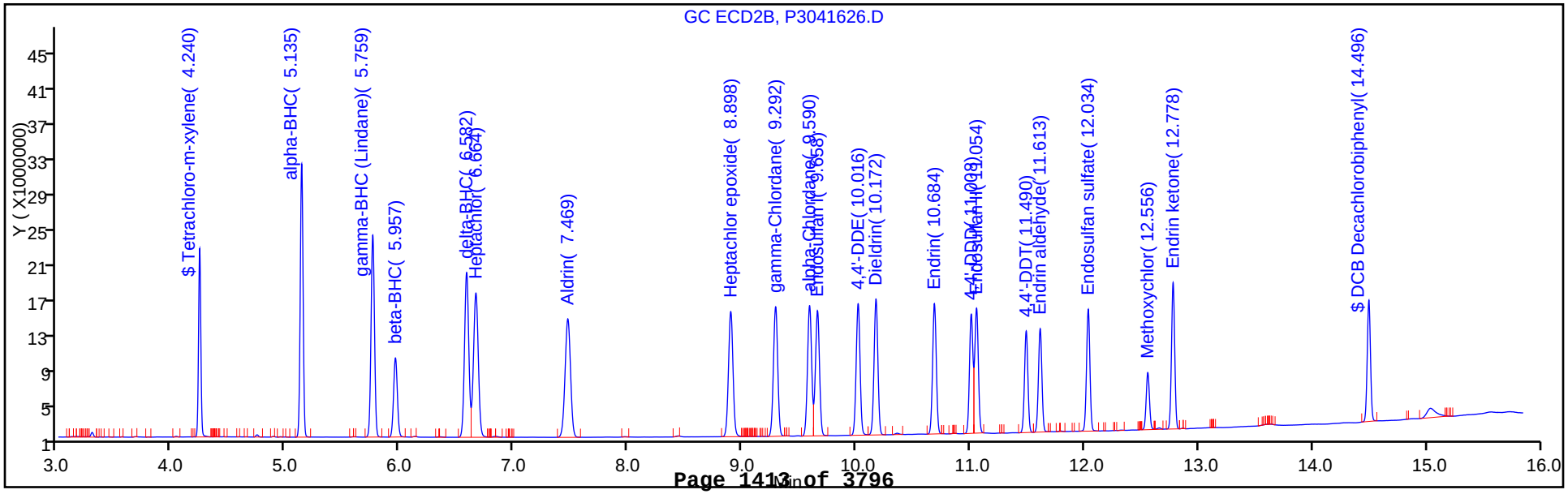
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041626.D

Injection Date:	16-Apr-2015 23:24:48	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/26 Calibration Date: 04/16/2015 23:24

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041626.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2146521		27.4	25.0	9.7	20.0
gamma-BHC (Lindane)	Ave	1769514	1937840		27.4	25.0	9.5	20.0
beta-BHC	Ave	768367	833819		27.1	25.0	8.5	20.0
delta-BHC	Ave	1774158	1963644		27.7	25.0	10.7	20.0
Heptachlor	Ave	1690527	1940503		28.7	25.0	14.8	20.0
Aldrin	Ave	1672196	1803646		27.0	25.0	7.9	20.0
Heptachlor epoxide	Ave	1435426	1571393		27.4	25.0	9.5	20.0
gamma-Chlordane	Ave	1471152	1551416		26.4	25.0	5.5	20.0
alpha-Chlordane	Ave	1420369	1504760		26.5	25.0	5.9	20.0
Endosulfan I	Ave	1321597	1429892		27.0	25.0	8.2	20.0
4,4'-DDE	Ave	1320422	1429762		27.1	25.0	8.3	20.0
Dieldrin	Ave	1368089	1454359		26.6	25.0	6.3	20.0
Endrin	Ave	1205577	1337700		27.7	25.0	11.0	20.0
4,4'-DDD	Ave	978644	1164208		29.7	25.0	19.0	20.0
Endosulfan II	Ave	1169425	1241964		26.6	25.0	6.2	20.0
4,4'-DDT	Ave	997996	965649		24.2	25.0	-3.2	20.0
Endrin aldehyde	Ave	933862	997191		26.7	25.0	6.8	20.0
Endosulfan sulfate	Ave	1059131	1148130		27.1	25.0	8.4	20.0
Methoxychlor	Ave	489196	522902		26.7	25.0	6.9	20.0
Endrin ketone	Ave	1227876	1312628		26.7	25.0	6.9	20.0
Tetrachloro-m-xylene	Ave	1127022	1197727		26.6	25.0	6.3	20.0
DCB Decachlorobiphenyl	Ave	1017987	1096192		26.9	25.0	7.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/26 Calibration Date: 04/16/2015 23:24

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3041626.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.14	5.11	5.17
gamma-BHC (Lindane)	5.76	5.73	5.79
beta-BHC	5.96	5.93	5.99
delta-BHC	6.58	6.55	6.61
Heptachlor	6.66	6.63	6.69
Aldrin	7.47	7.44	7.50
Heptachlor epoxide	8.90	8.87	8.93
gamma-Chlordane	9.29	9.26	9.32
alpha-Chlordane	9.59	9.56	9.62
Endosulfan I	9.66	9.63	9.69
4,4'-DDE	10.02	9.99	10.05
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.56	12.53	12.59
Endrin ketone	12.78	12.75	12.81
Tetrachloro-m-xylene	4.24	4.21	4.27
DCB Decachlorobiphenyl	14.50	14.47	14.53

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041626.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 16-Apr-2015 23:24:48 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-026
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:04 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:29:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.559	0.000	27123753	25.0	27.6	
2	4.240	4.240	0.000	29943169	25.0	26.6	
						RPD = 3.73	
4 alpha-BHC							
1	4.254	4.254	0.000	49011599	25.0	28.3	
2	5.135	5.135	0.000	53663018	25.0	27.4	
						RPD = 3.18	
5 gamma-BHC (Lindane)							
1	4.642	4.642	0.000	43831470	25.0	28.4	
2	5.759	5.759	0.000	48445996	25.0	27.4	
						RPD = 3.64	
6 beta-BHC							
1	4.779	4.779	0.000	17783877	25.0	28.2	
2	5.957	5.957	0.000	20845468	25.0	27.1	
						RPD = 3.99	
7 delta-BHC							
1	5.002	5.002	0.000	43704681	25.0	29.1	
2	6.582	6.582	0.000	49091107	25.0	27.7	
						RPD = 4.97	
9 Heptachlor							
1	5.289	5.289	0.000	43312092	25.0	29.7	
2	6.664	6.664	0.000	48512576	25.0	28.7	
						RPD = 3.37	
10 Aldrin							
1	5.754	5.754	0.000	40554401	25.0	27.7	
2	7.469	7.469	0.000	45091160	25.0	27.0	
						RPD = 2.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.029	7.029	0.000	36789934	25.0	28.2	
2	8.898	8.898	0.000	39284818	25.0	27.4	
						RPD = 3.05	
13 gamma-Chlordane							
1	7.346	7.346	0.000	37285142	25.0	27.6	
2	9.292	9.292	0.000	38785401	25.0	26.4	
						RPD = 4.60	
14 alpha-Chlordane							
1	7.691	7.691	0.000	36962996	25.0	27.6	
2	9.590	9.590	0.000	37618991	25.0	26.5	
						RPD = 4.24	
15 Endosulfan I							
1	7.964	7.964	0.000	34706251	25.0	28.3	
2	9.658	9.658	0.000	35747308	25.0	27.0	
						RPD = 4.43	
16 4,4'-DDE							
1	8.061	8.061	0.000	34424602	25.0	29.1	
2	10.016	10.016	0.000	35744042	25.0	27.1	
						RPD = 7.08	
17 Dieldrin							
1	8.516	8.516	0.000	36824620	25.0	28.2	
2	10.172	10.172	0.000	36358963	25.0	26.6	
						RPD = 5.79	
18 Endrin							
1	8.969	8.969	0.000	34465160	25.0	29.9	
2	10.684	10.684	0.000	33442493	25.0	27.7	
						RPD = 7.61	
20 4,4'-DDD							
1	9.328	9.328	0.000	29242404	25.0	33.6	
2	11.008	11.008	0.000	29105197	25.0	29.7	
						RPD = 12.17	
21 Endosulfan II							
1	9.418	9.418	0.000	32344277	25.0	28.0	
2	11.054	11.054	0.000	31049104	25.0	26.6	
						RPD = 5.16	
23 4,4'-DDT							
1	9.843	9.843	0.000	25263739	25.0	26.4	
2	11.490	11.490	0.000	24141235	25.0	24.2	
						RPD = 8.92	
25 Endrin aldehyde							
1	10.212	10.212	0.000	25097161	25.0	28.2	
2	11.613	11.613	0.000	24929770	25.0	26.7	
						RPD = 5.38	
27 Methoxychlor							
1	10.792	10.792	0.000	13729865	25.0	30.0	
2	12.556	12.556	0.000	13072540	25.0	26.7	
						RPD = 11.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.936	10.936	0.000	28343796	25.0	28.5	
2	12.034	12.034	0.000	28703247	25.0	27.1	
						RPD = 4.87	
29 Endrin ketone							
1	11.335	11.335	0.000	33851057	25.0	27.7	
2	12.778	12.778	0.000	32815692	25.0	26.7	
						RPD = 3.59	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	26270391	25.0	28.1	
2	14.496	14.496	0.000	27404807	25.0	26.9	
						RPD = 4.12	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

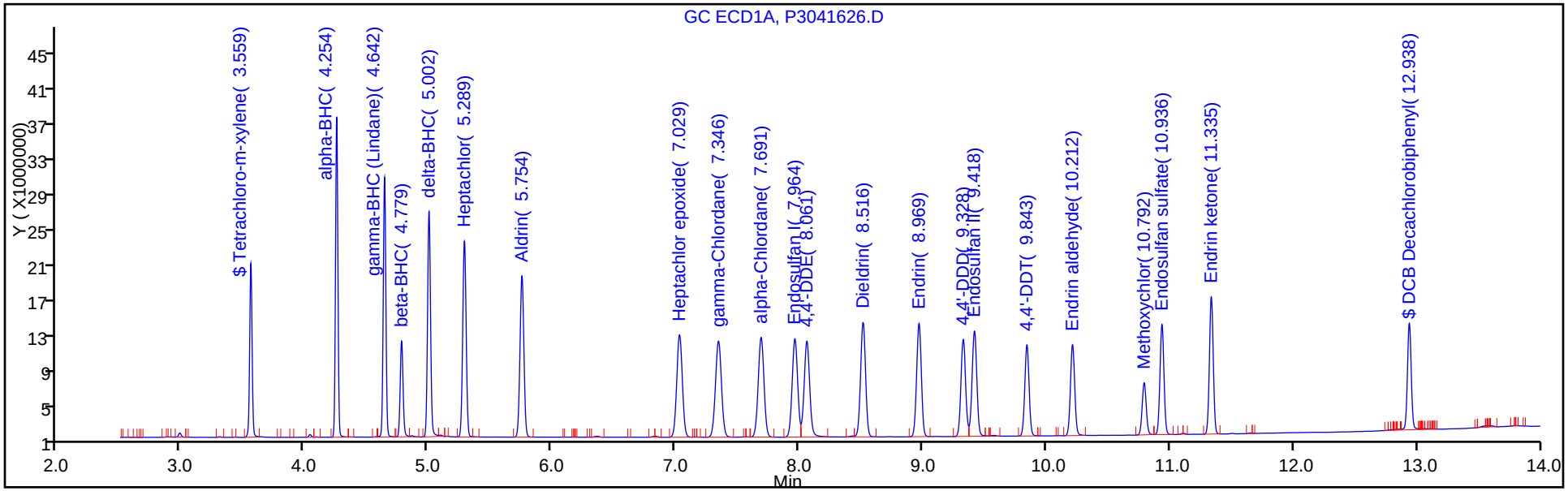
Report Date: 17-Apr-2015 08:38:05 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

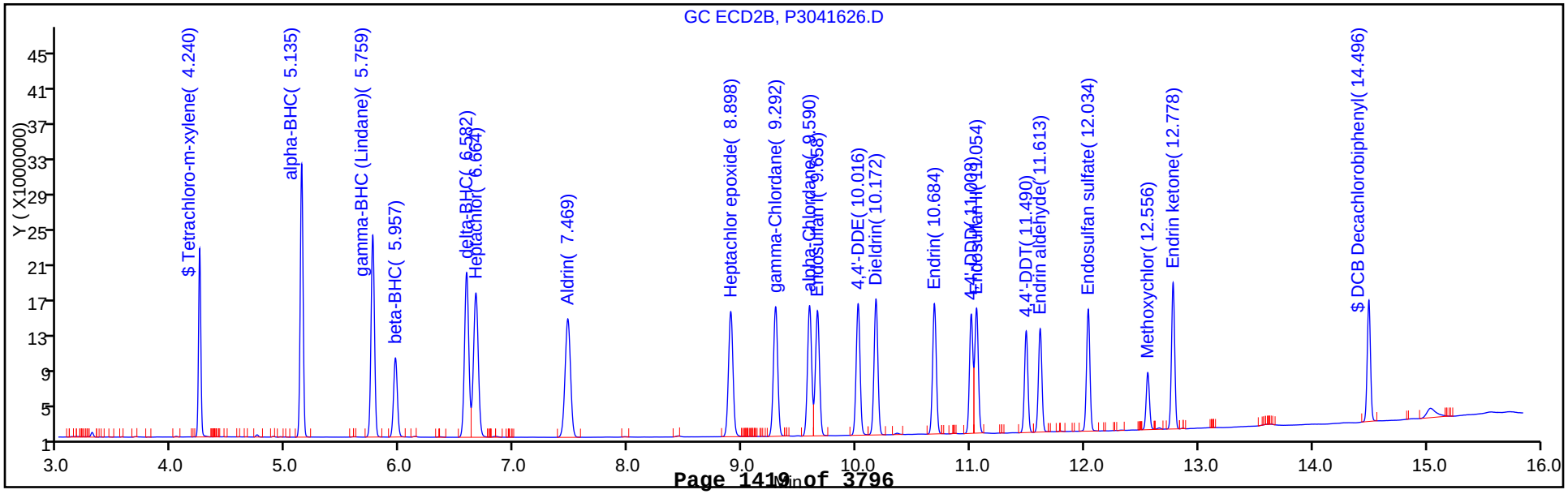
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041626.D

Injection Date:	16-Apr-2015 23:24:48	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/34 Calibration Date: 04/17/2015 02:26

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041634.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	40608		1070	1000	7.3	20.0
Toxaphene Peak 2	Ave	36644	38195		1040	1000	4.2	20.0
Toxaphene Peak 3	Ave	23355	24401		1040	1000	4.5	20.0
Toxaphene Peak 4	Ave	33176	34612		1040	1000	4.3	20.0
Toxaphene Peak 5	Ave	32330	30050		929	1000	-7.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/34 Calibration Date: 04/17/2015 02:26

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041634.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.62	9.59	9.65
Toxaphene Peak 2	10.08	10.05	10.11
Toxaphene Peak 3	10.40	10.37	10.43
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.84	10.81	10.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041634.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 17-Apr-2015 02:26:13 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-034
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:13 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:32:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.624	9.624	0.000	40607647	1000.0	1073.4	M
1	10.084	10.084	0.000	38195016	1000.0	1042.3	M
1	10.396	10.396	0.000	24401228	1000.0	1044.8	M
1	10.739	10.739	0.000	34612151	1000.0	1043.3	M
1	10.844	10.844	0.000	30050338	1000.0	929.5	M
		Average of Peak Amounts =				1026.6	
2	11.031	11.031	0.000	51146792	1000.0	987.0	M
2	11.200	11.200	0.000	51510382	1000.0	1010.7	M
2	11.624	11.624	0.000	34866096	1000.0	978.2	M
2	12.359	12.359	0.000	43676092	1000.0	957.2	M
2	12.449	12.449	0.000	13364742	1000.0	858.4	M
		Average of Peak Amounts =				958.3	
						RPD = 6.89	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

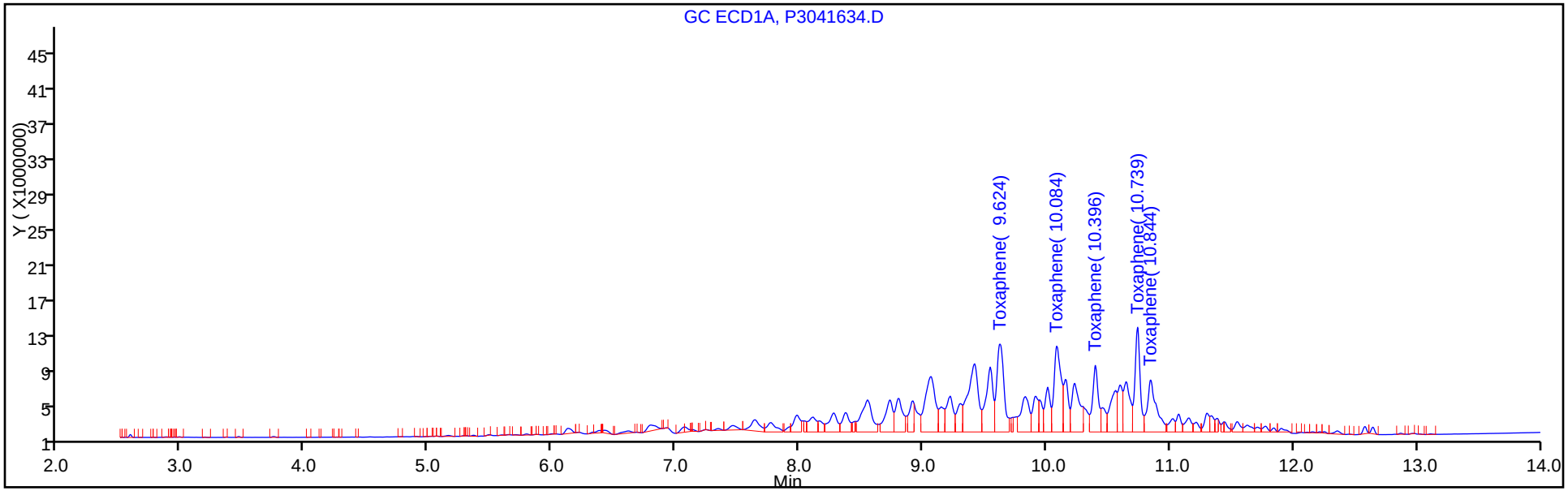
Report Date: 17-Apr-2015 08:38:14 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

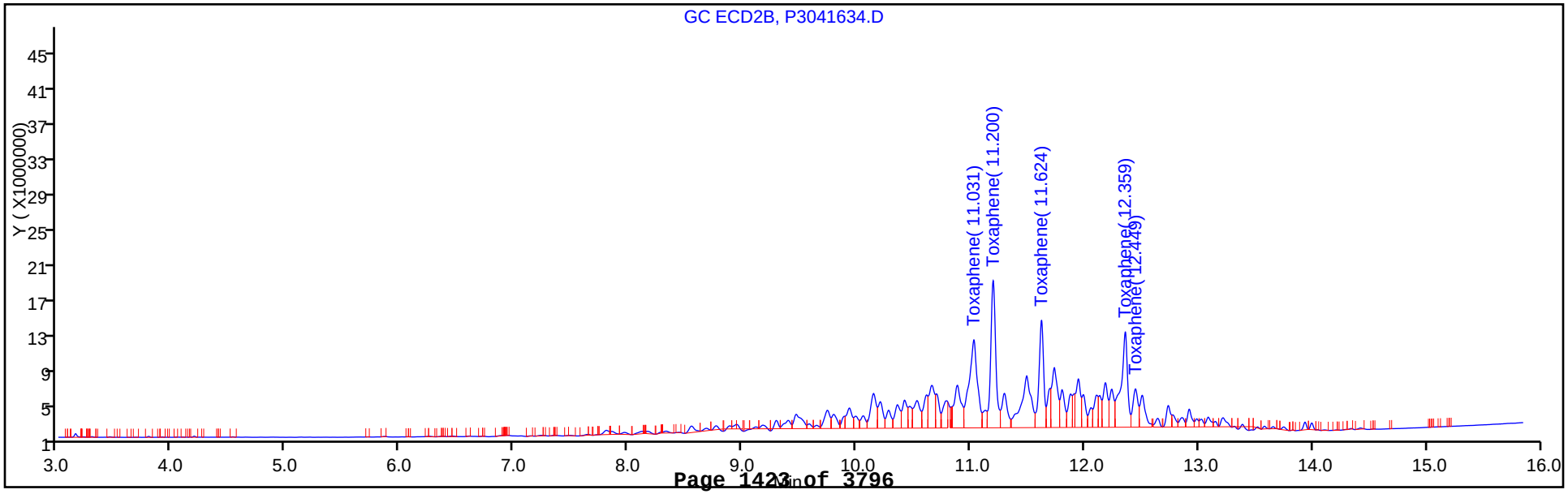
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041634.D

Injection Date:	17-Apr-2015 02:26:13	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2015 08:38:14 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041634.D

Injection Date: 17-Apr-2015 02:26:13 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

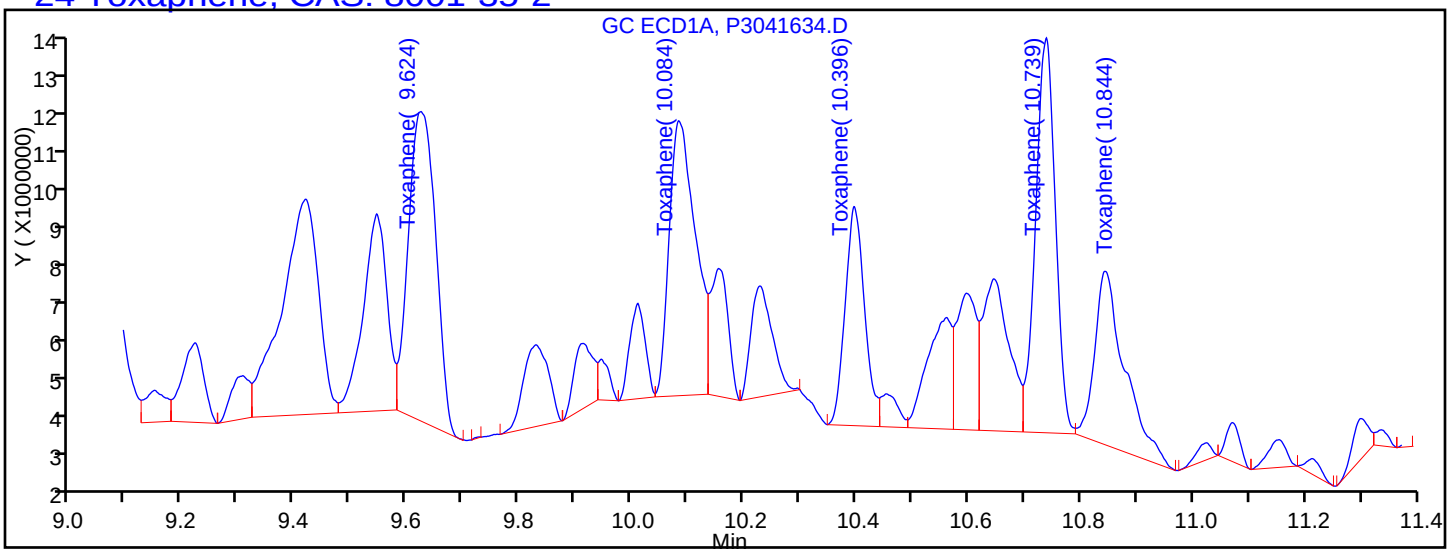
Operator ID: 430893 ALS Bottle#: 34 Worklist Smp#: 34

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

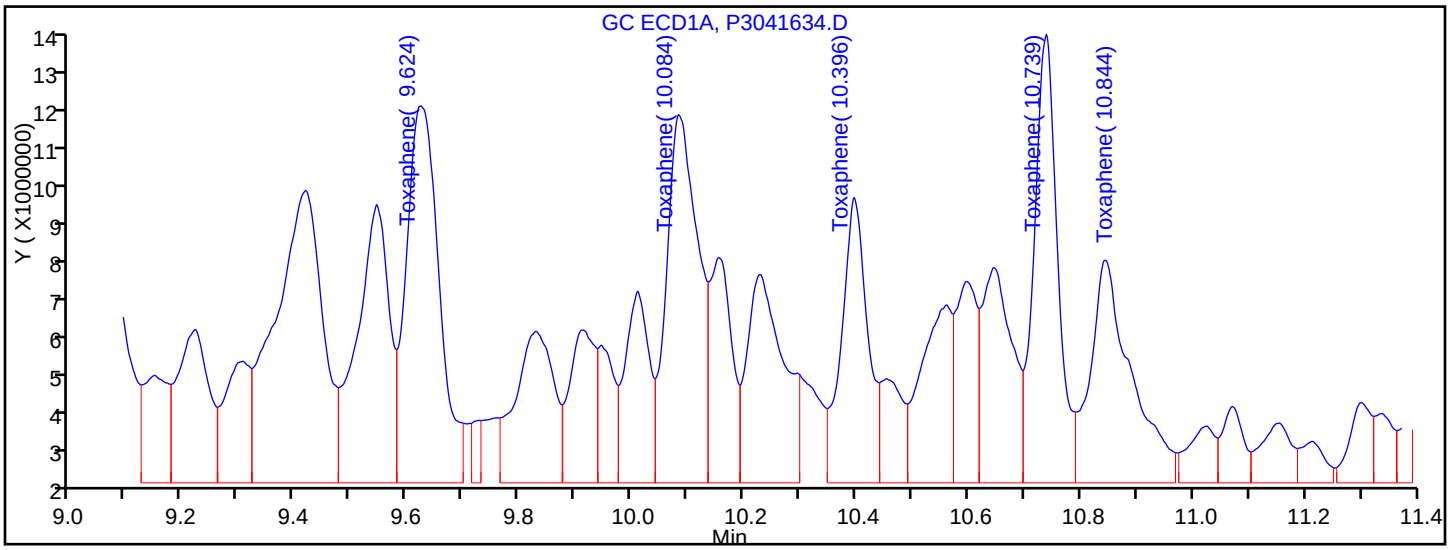
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.624	Response = 26778611	M
RT = 10.084	Response = 22911399	M
RT = 10.396	Response = 13551340	M
RT = 10.739	Response = 24802298	M
RT = 10.844	Response = 16590294	M



Manual Integration Results

RT = 9.624	Response = 40607647	M
RT = 10.084	Response = 38195016	M
RT = 10.396	Response = 24401228	M
RT = 10.739	Response = 34612151	M
RT = 10.844	Response = 30050338	M

Reviewer: matthewsb, 17-Apr-2015 08:32:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/34 Calibration Date: 04/17/2015 02:26

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041634.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	51147		987	1000	-1.3	20.0
Toxaphene Peak 2	Ave	50965	51510		1010	1000	1.1	20.0
Toxaphene Peak 3	Ave	35641	34866		978	1000	-2.2	20.0
Toxaphene Peak 4	Ave	45629	43676		957	1000	-4.3	20.0
Toxaphene Peak 5	Ave	15570	13365		858	1000	-14.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176694/34 Calibration Date: 04/17/2015 02:26

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3041634.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.03	11.00	11.06
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.36	12.33	12.39
Toxaphene Peak 5	12.45	12.42	12.48

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041634.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 17-Apr-2015 02:26:13 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-034
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:13 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:32:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.624	9.624	0.000	40607647	1000.0	1073.4	M
1	10.084	10.084	0.000	38195016	1000.0	1042.3	M
1	10.396	10.396	0.000	24401228	1000.0	1044.8	M
1	10.739	10.739	0.000	34612151	1000.0	1043.3	M
1	10.844	10.844	0.000	30050338	1000.0	929.5	M
		Average of Peak Amounts =				1026.6	
2	11.031	11.031	0.000	51146792	1000.0	987.0	M
2	11.200	11.200	0.000	51510382	1000.0	1010.7	M
2	11.624	11.624	0.000	34866096	1000.0	978.2	M
2	12.359	12.359	0.000	43676092	1000.0	957.2	M
2	12.449	12.449	0.000	13364742	1000.0	858.4	M
		Average of Peak Amounts =				958.3	
						RPD = 6.89	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

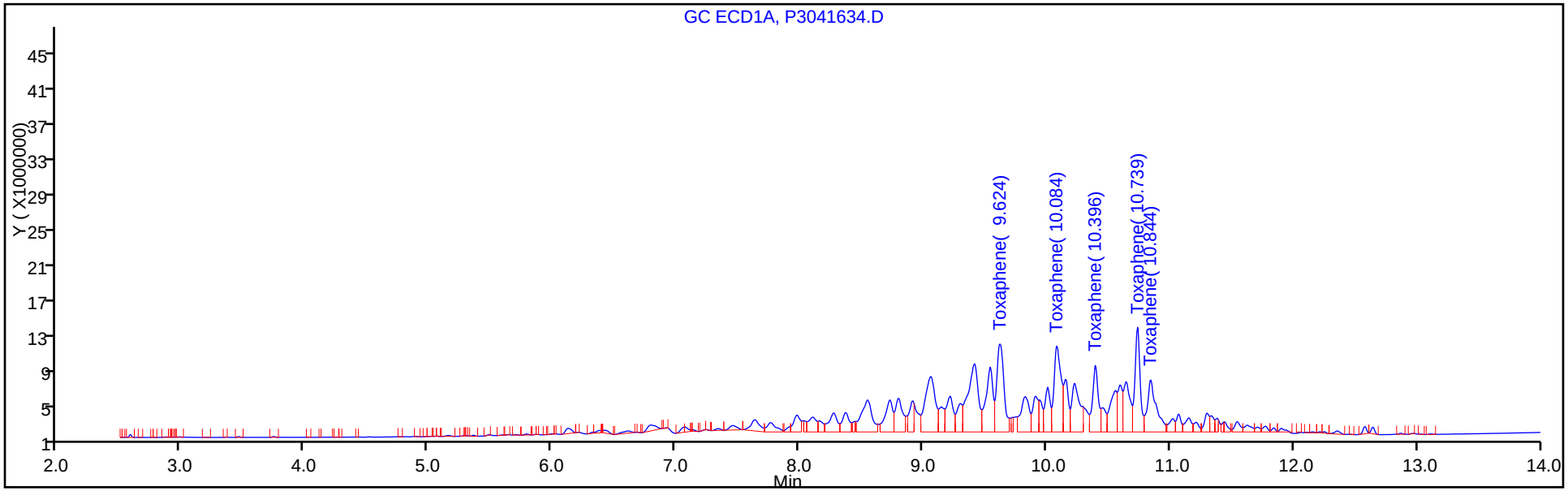
Report Date: 17-Apr-2015 08:38:14 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

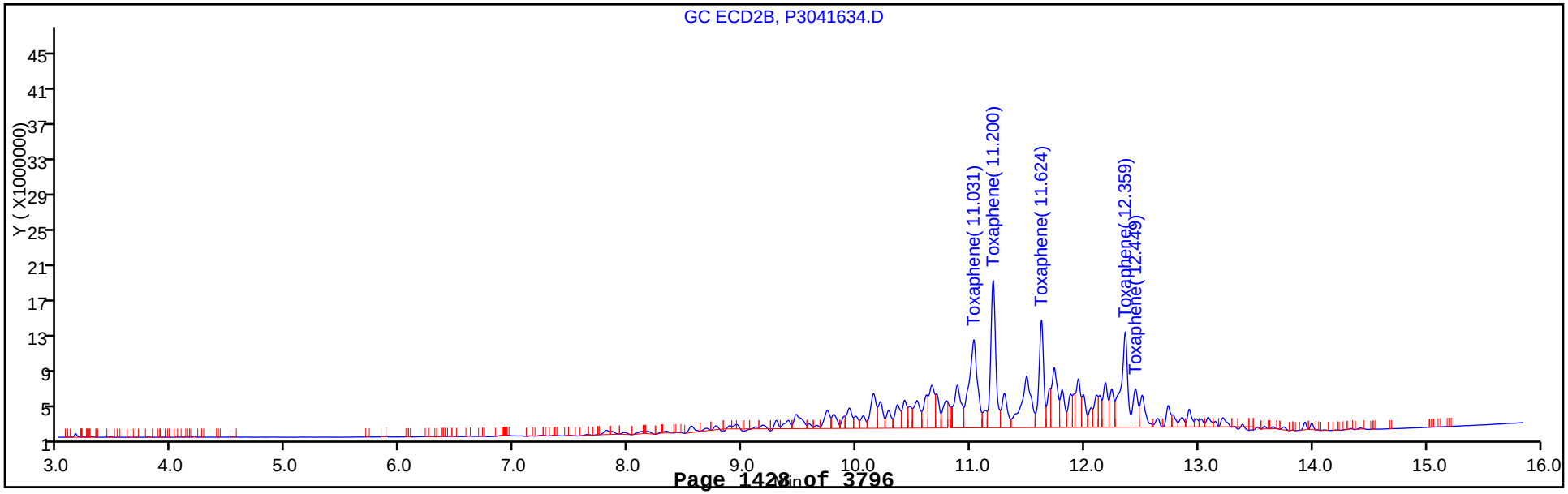
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041634.D

Injection Date:	17-Apr-2015 02:26:13	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2015 08:38:15 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041634.D

Injection Date: 17-Apr-2015 02:26:13 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

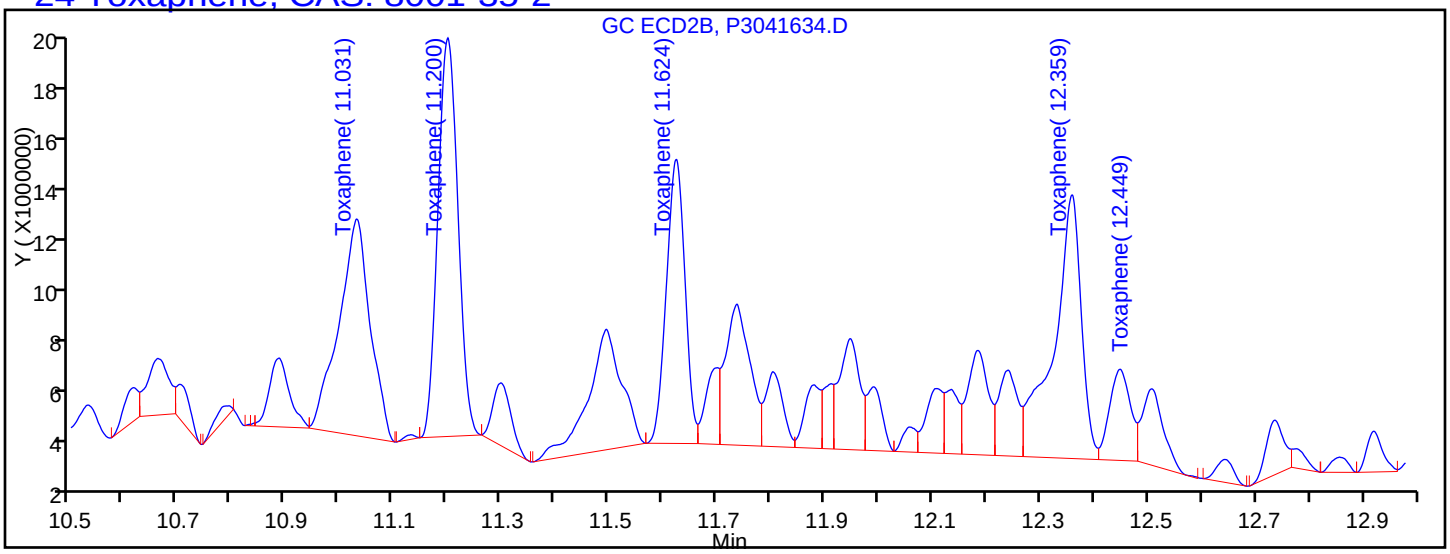
Operator ID: 430893 ALS Bottle#: 34 Worklist Smp#: 34

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

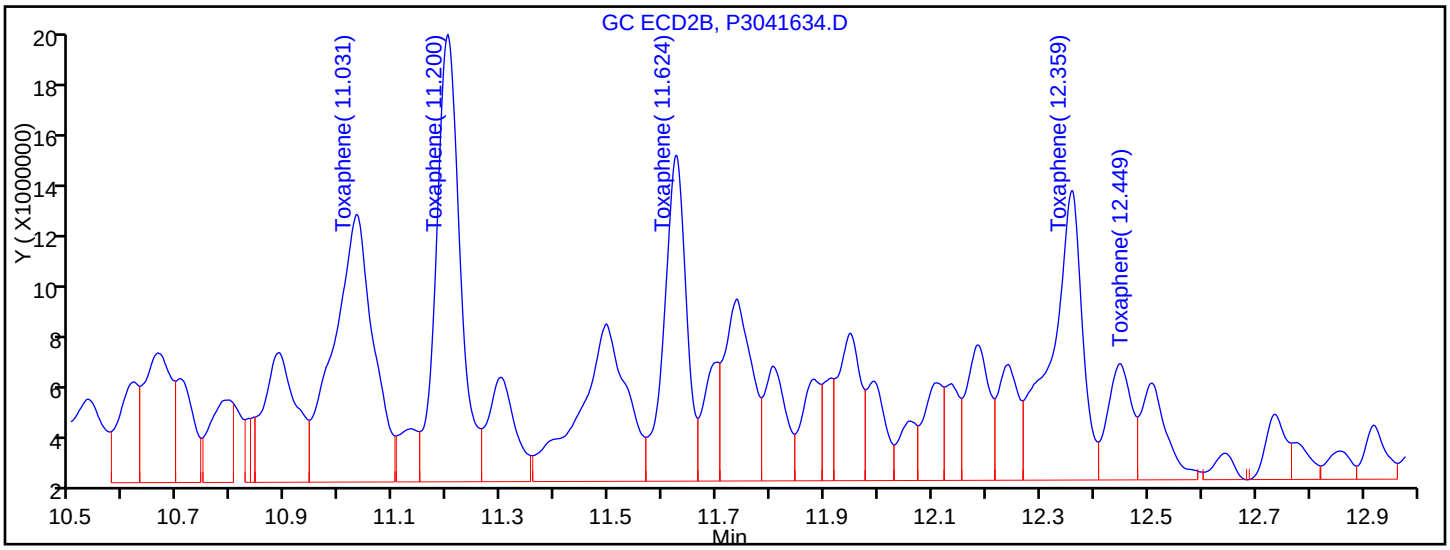
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.031	Response = 32272621	M
RT = 11.200	Response = 38274705	M
RT = 11.624	Response = 25391308	M
RT = 12.359	Response = 34850687	M
RT = 12.449	Response = 9187748	M



Manual Integration Results

RT = 11.031	Response = 51146792	M
RT = 11.200	Response = 51510382	M
RT = 11.624	Response = 34866096	M
RT = 12.359	Response = 43676092	M
RT = 12.449	Response = 13364742	M

Reviewer: matthewsb, 17-Apr-2015 08:32:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	41315		1090	1000	9.2	20.0
Toxaphene Peak 2	Ave	36644	38859		1060	1000	6.0	20.0
Toxaphene Peak 3	Ave	23355	24547		1050	1000	5.1	20.0
Toxaphene Peak 4	Ave	33176	35156		1060	1000	6.0	20.0
Toxaphene Peak 5	Ave	32330	33684		1040	1000	4.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.62	9.59	9.65
Toxaphene Peak 2	10.08	10.05	10.11
Toxaphene Peak 3	10.39	10.36	10.42
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.84	10.81	10.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 15:32:24 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:37 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:18:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.622	9.622	0.000	41314691	1000.0	1092.0	M
1	10.081	10.081	0.000	38859344	1000.0	1060.5	M
1	10.393	10.393	0.000	24547309	1000.0	1051.1	M
1	10.735	10.735	0.000	35155538	1000.0	1059.7	M
1	10.840	10.840	0.000	33684015	1000.0	1041.9	M
		Average of Peak Amounts =				1061.0	
2	11.025	11.025	0.000	53616903	1000.0	1034.6	M
2	11.195	11.195	0.000	53467893	1000.0	1049.1	M
2	11.618	11.618	0.000	36878172	1000.0	1034.7	M
2	12.353	12.353	0.000	46136479	1000.0	1011.1	M
2	12.444	12.444	0.000	15246591	1000.0	979.2	M
		Average of Peak Amounts =				1021.8	
						RPD = 3.77	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

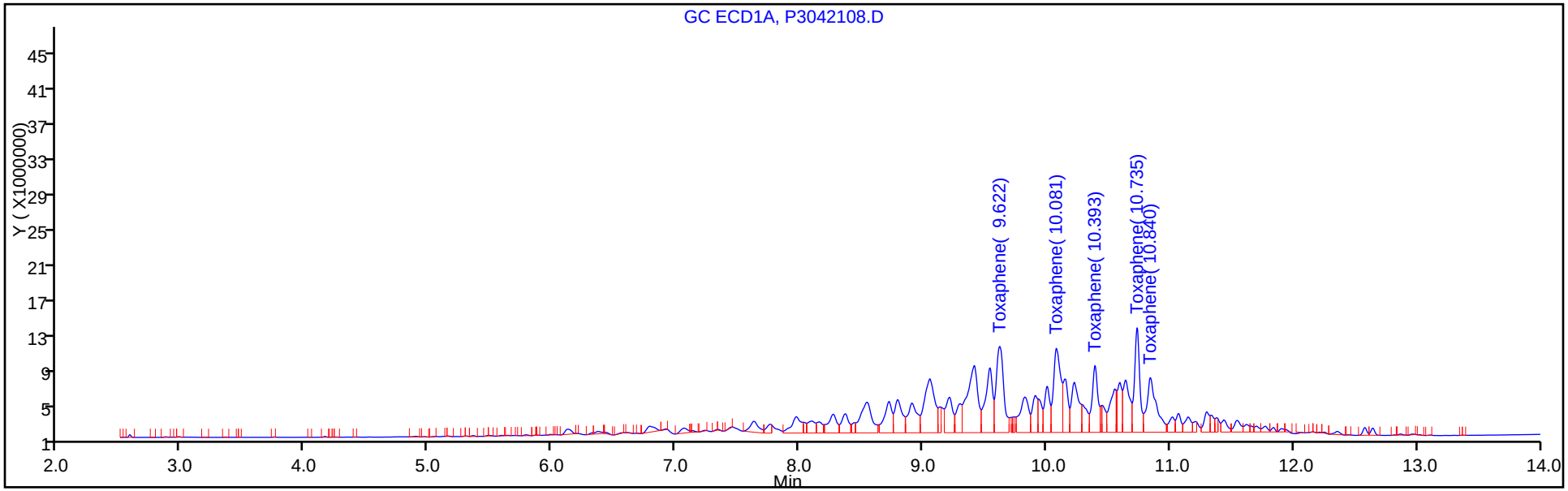
Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

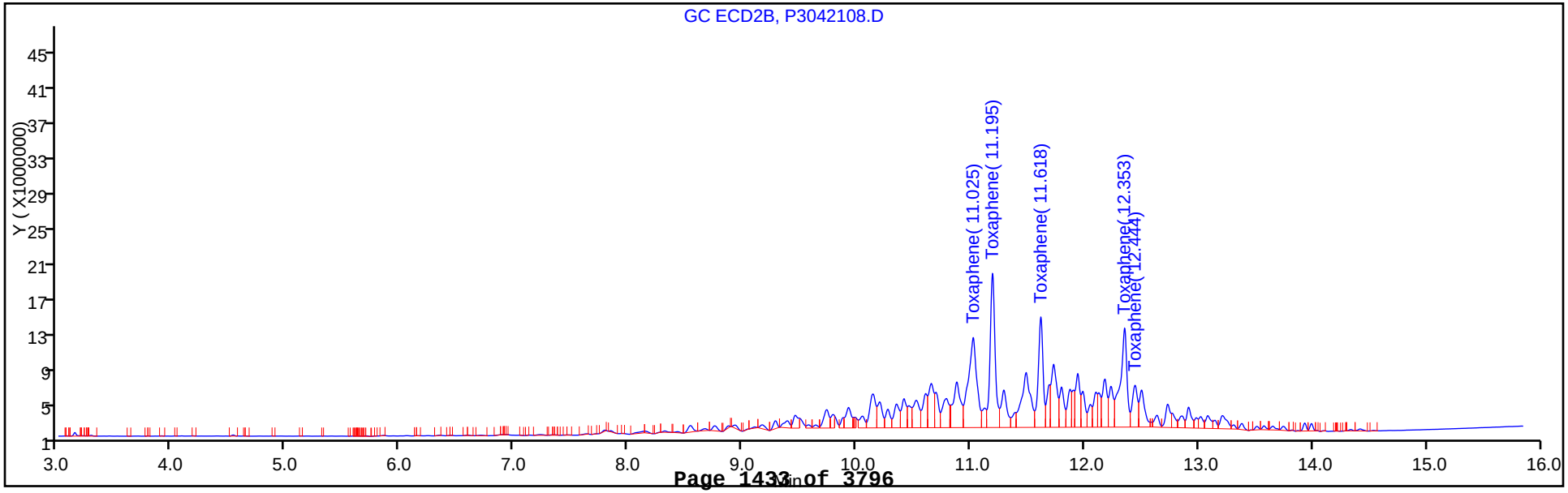
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date:	21-Apr-2015 15:32:24	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date: 21-Apr-2015 15:32:24 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

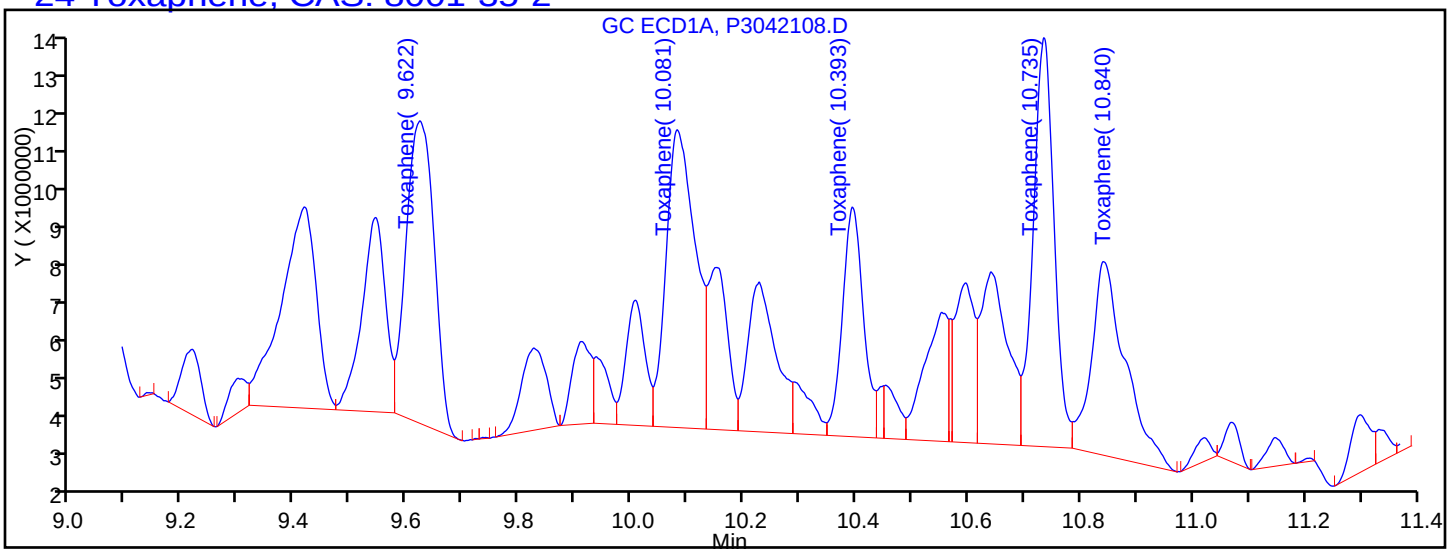
Operator ID: 430893 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

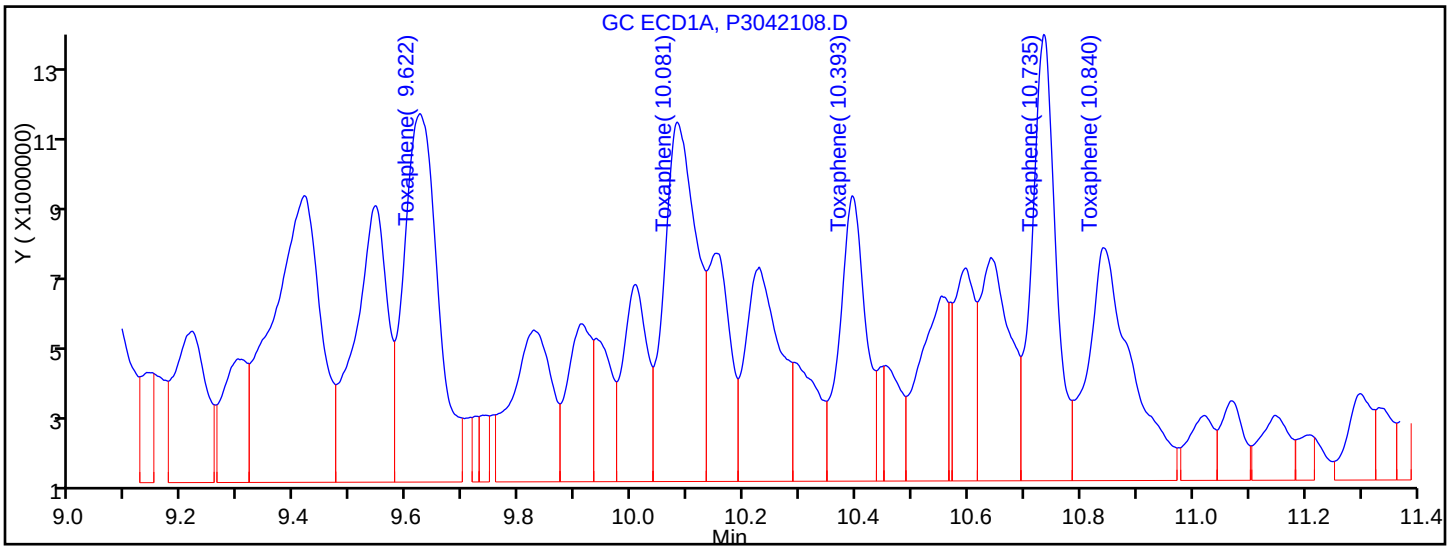
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.622	Response = 26531778	M
RT = 10.081	Response = 27431614	M
RT = 10.393	Response = 15173978	M
RT = 10.735	Response = 26901276	M
RT = 10.840	Response = 20666479	M



Manual Integration Results

RT = 9.622	Response = 41314691	M
RT = 10.081	Response = 38859344	M
RT = 10.393	Response = 24547309	M
RT = 10.735	Response = 35155538	M
RT = 10.840	Response = 33684015	M

Reviewer: matthewsb, 22-Apr-2015 07:18:40

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	53617		1030	1000	3.5	20.0
Toxaphene Peak 2	Ave	50965	53468		1050	1000	4.9	20.0
Toxaphene Peak 3	Ave	35641	36878		1030	1000	3.5	20.0
Toxaphene Peak 4	Ave	45629	46136		1010	1000	1.1	20.0
Toxaphene Peak 5	Ave	15570	15247		979	1000	-2.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.03	11.00	11.06
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.44	12.41	12.47

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 15:32:24 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:37 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:18:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.622	9.622	0.000	41314691	1000.0	1092.0	M
1	10.081	10.081	0.000	38859344	1000.0	1060.5	M
1	10.393	10.393	0.000	24547309	1000.0	1051.1	M
1	10.735	10.735	0.000	35155538	1000.0	1059.7	M
1	10.840	10.840	0.000	33684015	1000.0	1041.9	M
		Average of Peak Amounts =				1061.0	
2	11.025	11.025	0.000	53616903	1000.0	1034.6	M
2	11.195	11.195	0.000	53467893	1000.0	1049.1	M
2	11.618	11.618	0.000	36878172	1000.0	1034.7	M
2	12.353	12.353	0.000	46136479	1000.0	1011.1	M
2	12.444	12.444	0.000	15246591	1000.0	979.2	M
		Average of Peak Amounts =				1021.8	
						RPD = 3.77	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

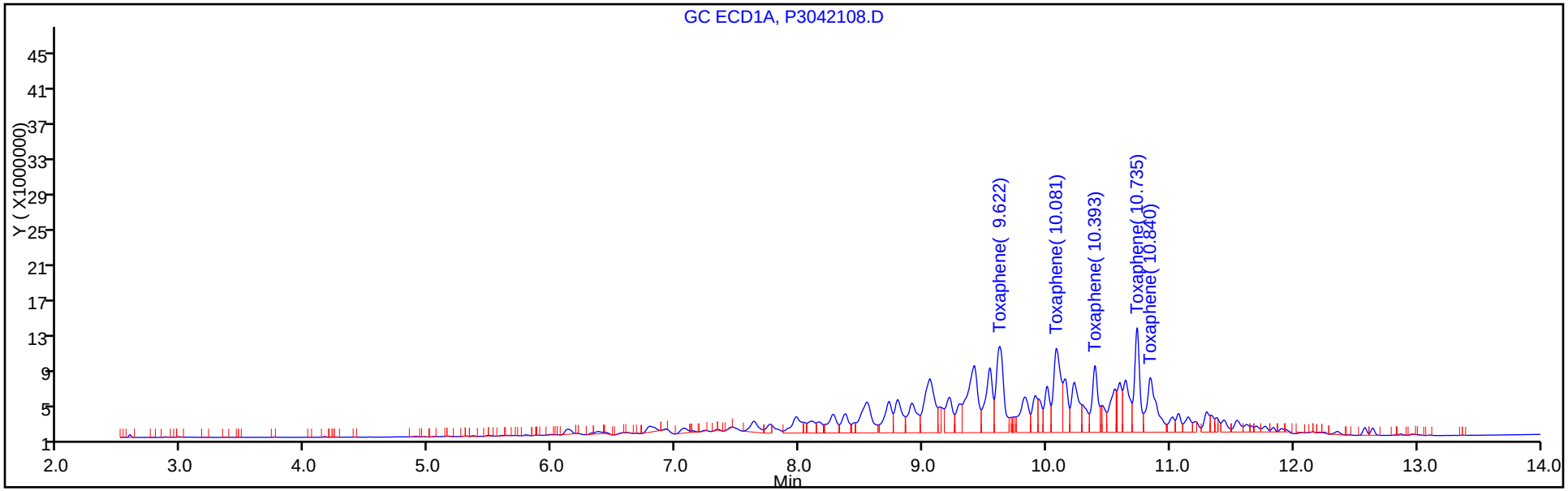
Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

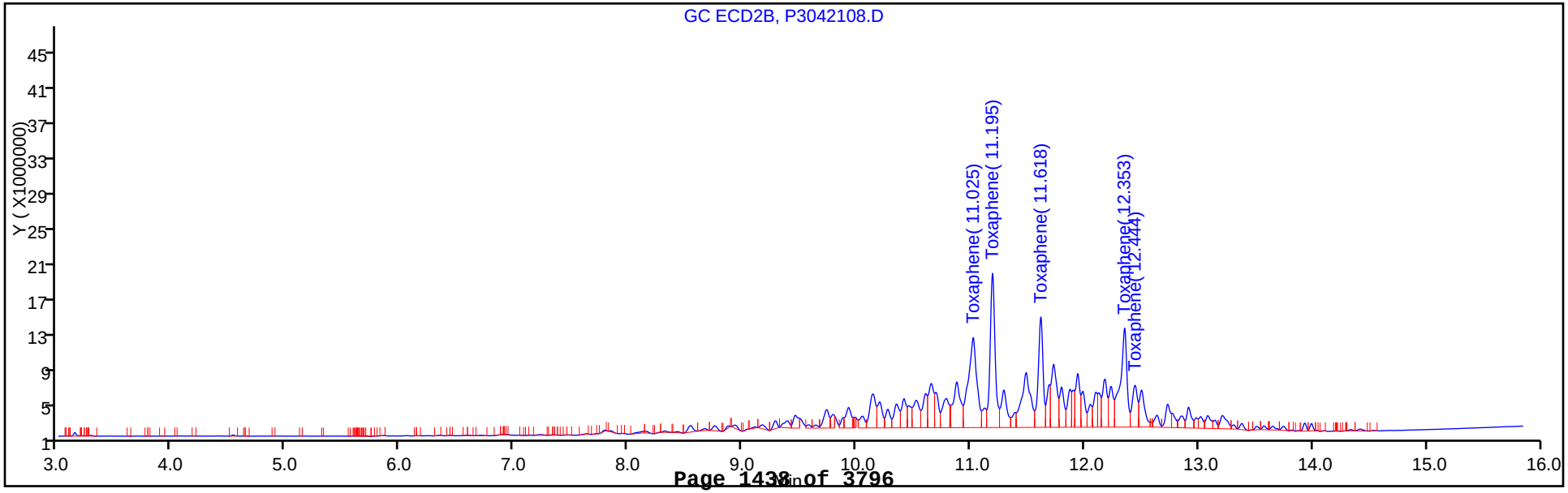
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date:	21-Apr-2015 15:32:24	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date: 21-Apr-2015 15:32:24 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

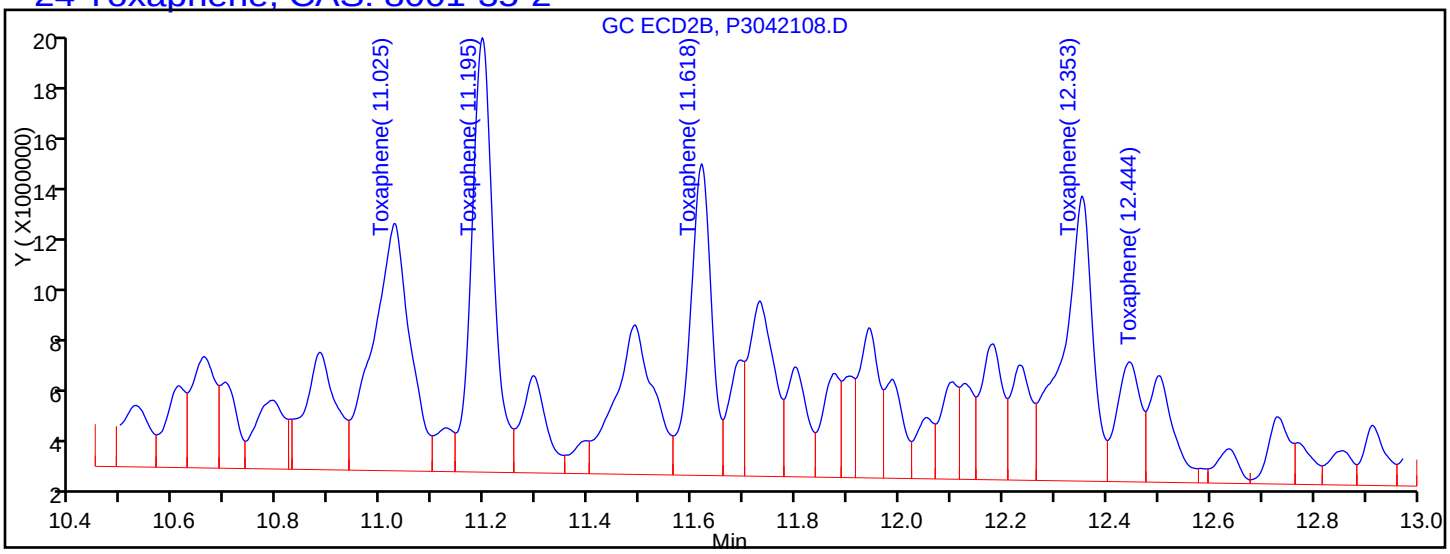
Operator ID: 430893 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

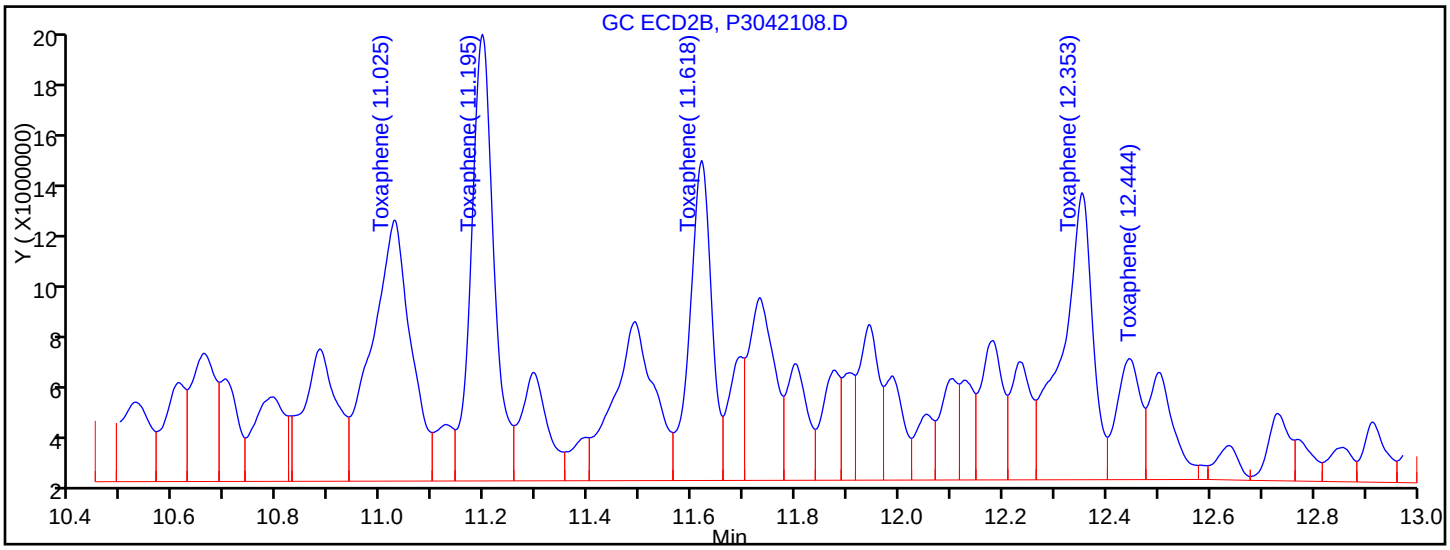
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.025	Response = 48466481	M
RT = 11.195	Response = 50262934	M
RT = 11.618	Response = 34968258	M
RT = 12.353	Response = 45470836	M
RT = 12.444	Response = 15049699	M



Manual Integration Results

RT = 11.025	Response = 53616903	M
RT = 11.195	Response = 53467893	M
RT = 11.618	Response = 36878172	M
RT = 12.353	Response = 46136479	M
RT = 12.444	Response = 15246591	M

Reviewer: matthewsb, 22-Apr-2015 07:18:40

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/9 Calibration Date: 04/21/2015 15:55

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042109.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	42787	46148		108	100	7.9	20.0
Chlordane (technical) Peak 2	Ave	49308	51474		104	100	4.4	20.0
Chlordane (technical) Peak 3	Ave	166809	176924		106	100	6.1	20.0
Chlordane (technical) Peak 4	Ave	260084	278997		107	100	7.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/9 Calibration Date: 04/21/2015 15:55

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042109.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.17	5.14	5.20
Chlordane (technical) Peak 2	6.06	6.03	6.09
Chlordane (technical) Peak 3	7.34	7.31	7.37
Chlordane (technical) Peak 4	7.68	7.65	7.71

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042109.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 15:55:32 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-009
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:40 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:18:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.166	5.166	0.000	4614785	100.0	107.9	
1	6.055	6.055	0.000	5147366	100.0	104.4	
1	7.339	7.339	0.000	17692379	100.0	106.1	
1	7.677	7.677	0.000	27899723	100.0	107.3	
		Average of Peak Amounts =				106.4	
2	6.325	6.325	0.000	5760466	100.0	117.7	
2	7.950	7.950	0.000	6270576	100.0	108.3	
2	9.283	9.283	0.000	19032502	100.0	107.5	
2	9.581	9.581	0.000	17137693	100.0	108.4	
		Average of Peak Amounts =				110.5	
						RPD = 3.74	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

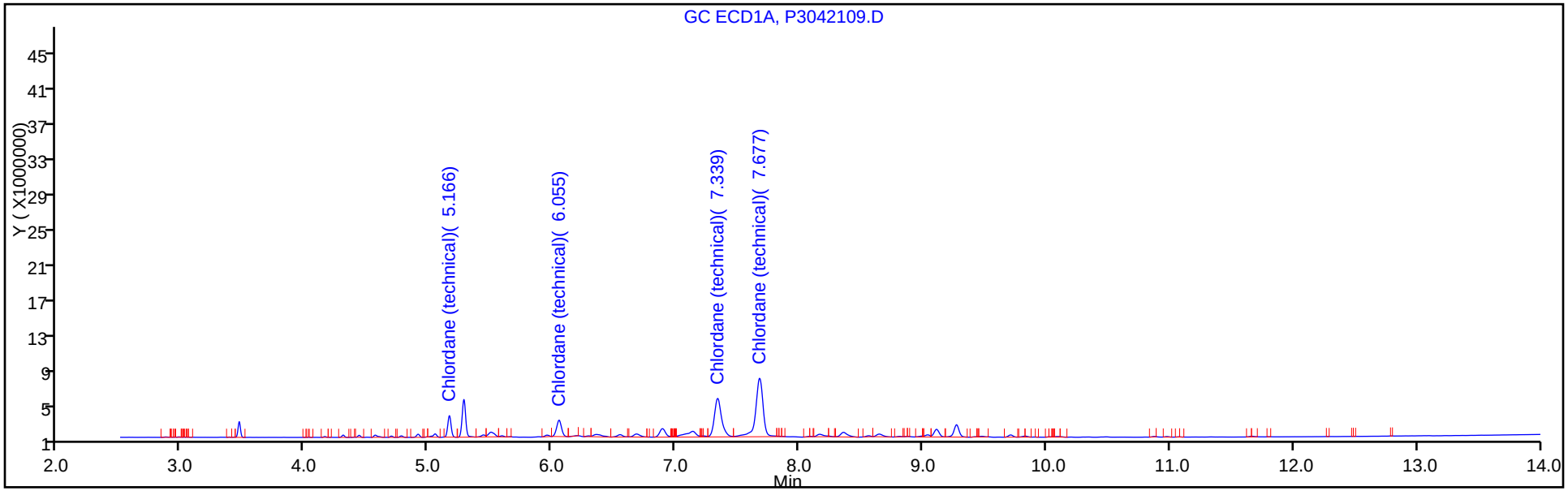
Report Date: 22-Apr-2015 08:58:40 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

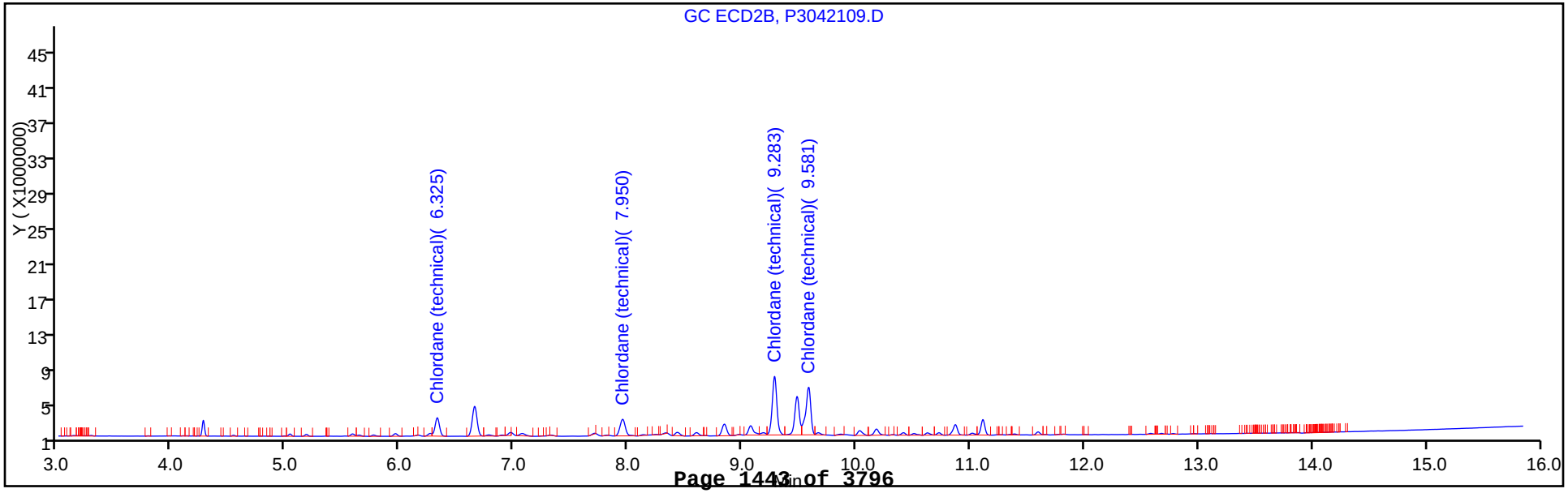
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042109.D

Injection Date:	21-Apr-2015 15:55:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/9 Calibration Date: 04/21/2015 15:55

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042109.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	48952	57605		118	100	17.7	20.0
Chlordane (technical) Peak 2	Ave	57903	62706		108	100	8.3	20.0
Chlordane (technical) Peak 3	Ave	177058	190325		107	100	7.5	20.0
Chlordane (technical) Peak 4	Ave	158165	171377		108	100	8.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/9 Calibration Date: 04/21/2015 15:55

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042109.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.33	6.30	6.36
Chlordane (technical) Peak 2	7.95	7.92	7.98
Chlordane (technical) Peak 3	9.28	9.25	9.31
Chlordane (technical) Peak 4	9.58	9.55	9.61

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042109.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 15:55:32 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-009
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:40 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:18:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.166	5.166	0.000	4614785	100.0	107.9	
1	6.055	6.055	0.000	5147366	100.0	104.4	
1	7.339	7.339	0.000	17692379	100.0	106.1	
1	7.677	7.677	0.000	27899723	100.0	107.3	
		Average of Peak Amounts =				106.4	
2	6.325	6.325	0.000	5760466	100.0	117.7	
2	7.950	7.950	0.000	6270576	100.0	108.3	
2	9.283	9.283	0.000	19032502	100.0	107.5	
2	9.581	9.581	0.000	17137693	100.0	108.4	
		Average of Peak Amounts =				110.5	
						RPD = 3.74	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

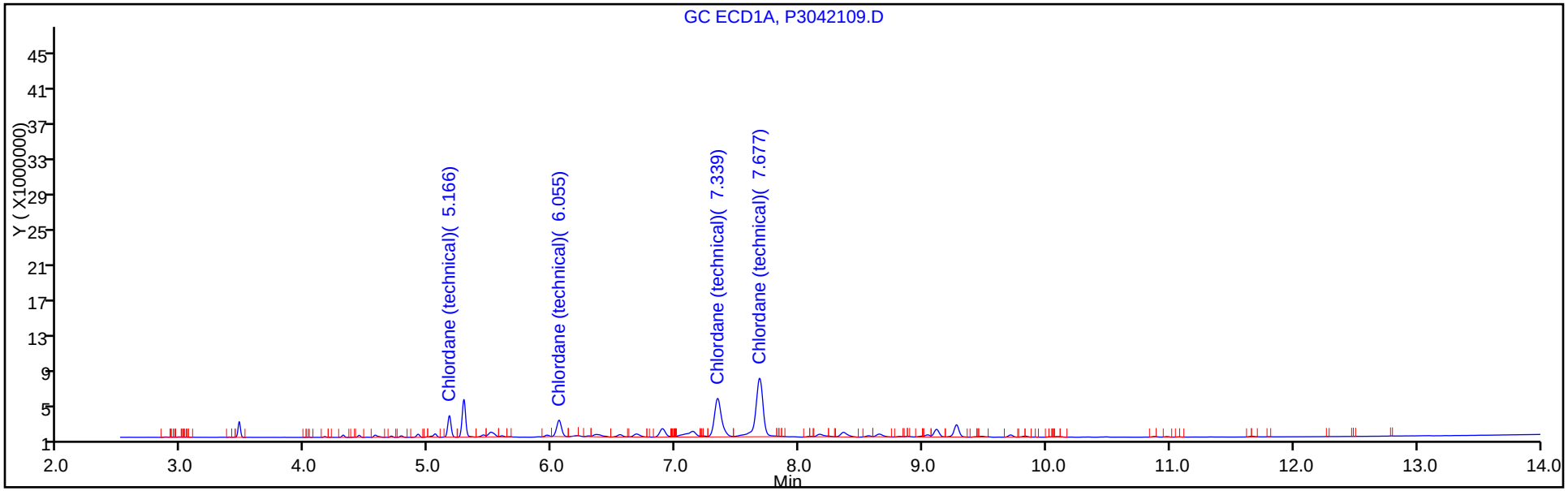
Report Date: 22-Apr-2015 08:58:41 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

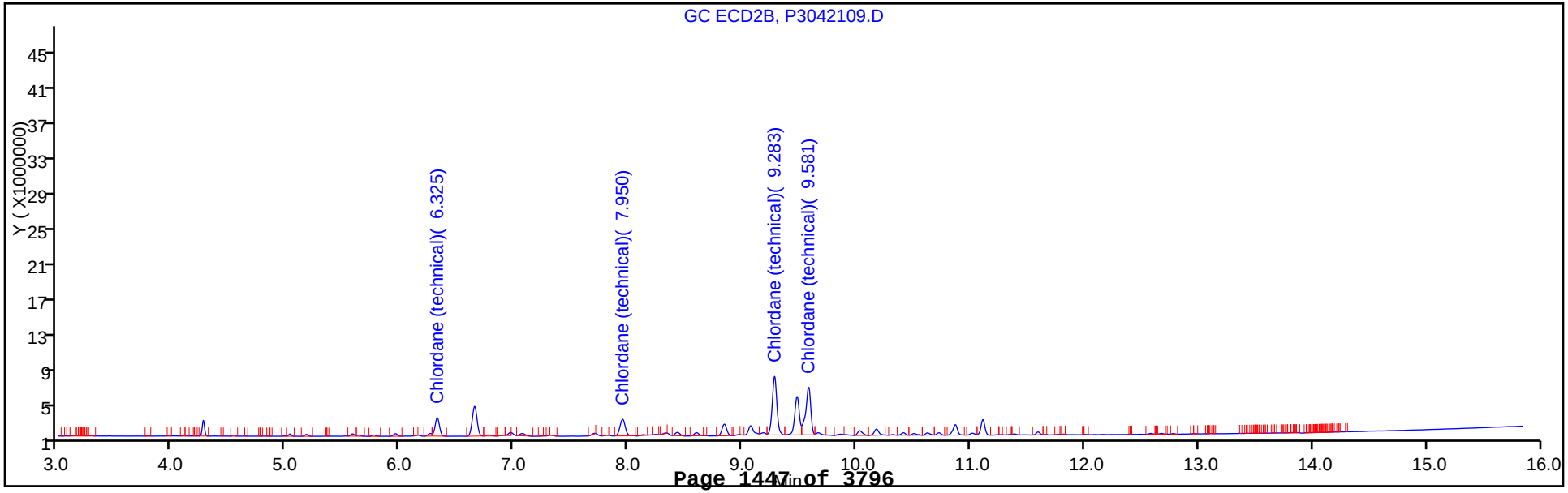
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042109.D

Injection Date:	21-Apr-2015 15:55:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1808791		26.1	25.0	4.4	20.0
gamma-BHC (Lindane)	Ave	1543740	1564381		25.3	25.0	1.3	20.0
beta-BHC	Ave	629842	597873		23.7	25.0	-5.1	20.0
delta-BHC	Ave	1502830	1271193		21.1	25.0	-15.4	20.0
Heptachlor	Ave	1459223	1499733		25.7	25.0	2.8	20.0
Aldrin	Ave	1461888	1520551		26.0	25.0	4.0	20.0
Heptachlor epoxide	Ave	1303871	1271782		24.4	25.0	-2.5	20.0
gamma-Chlordane	Ave	1350629	1280427		23.7	25.0	-5.2	20.0
alpha-Chlordane	Ave	1337609	1283749		24.0	25.0	-4.0	20.0
Endosulfan I	Ave	1227519	1128400		23.0	25.0	-8.1	20.0
4,4'-DDE	Ave	1184677	928159		19.6	25.0	-21.7*	20.0
Dieldrin	Ave	1307595	1193810		22.8	25.0	-8.7	20.0
Endrin	Ave	1151386	984908		21.4	25.0	-14.5	20.0
4,4'-DDD	Ave	870416	527167		15.1	25.0	-39.4*	20.0
Endosulfan II	Ave	1156896	1063646		23.0	25.0	-8.1	20.0
4,4'-DDT	Ave	955198	696811		18.2	25.0	-27.1*	20.0
Endrin aldehyde	Ave	890839	721739		20.3	25.0	-19.0	20.0
Methoxychlor	Ave	458228	326836		17.8	25.0	-28.7*	20.0
Endosulfan sulfate	Ave	996194	861303		21.6	25.0	-13.5	20.0
Endrin ketone	Ave	1221980	1036944		21.2	25.0	-15.1	20.0
Tetrachloro-m-xylene	Ave	983528	1058121		26.9	25.0	7.6	20.0
DCB Decachlorobiphenyl	Ave	936456	736909		19.7	25.0	-21.3*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.29	5.26	5.32
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.03	7.00	7.06
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.69	7.66	7.72
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.07	8.04	8.10
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.34	9.31	9.37
Endosulfan II	9.42	9.39	9.45
4,4'-DDT	9.85	9.82	9.88
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.80	10.77	10.83
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.34	11.31	11.37
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 16:19:17 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-010
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:42 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.556	0.000	26453014	25.0	26.9	
2	4.234	4.234	0.000	30747869	25.0	27.3	
						RPD = 1.43	
4 alpha-BHC							
1	4.252	4.252	0.000	45219784	25.0	26.1	
2	5.127	5.127	0.000	52058366	25.0	26.6	
						RPD = 1.83	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	39109531	25.0	25.3	
2	5.750	5.750	0.000	45624379	25.0	25.8	
						RPD = 1.76	
6 beta-BHC							
1	4.779	4.779	0.000	14946815	25.0	23.7	
2	5.949	5.949	0.000	18864703	25.0	24.6	
						RPD = 3.40	
7 delta-BHC							
1	5.001	5.001	0.000	31779836	25.0	21.1	
2	6.572	6.572	0.000	40399794	25.0	22.8	
						RPD = 7.40	
9 Heptachlor							
1	5.285	5.285	0.000	37493329	25.0	25.7	
2	6.652	6.652	0.000	44442253	25.0	26.3	
						RPD = 2.29	
10 Aldrin							
1	5.751	5.751	0.000	38013765	25.0	26.0	
2	7.457	7.457	0.000	43800899	25.0	26.2	
						RPD = 0.73	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.026	7.026	0.000	31794557	25.0	24.4	
2	8.889	8.889	0.000	36139374	25.0	25.2	
						RPD = 3.20	
13 gamma-Chlordane							
1	7.341	7.341	0.000	32010675	25.0	23.7	
2	9.284	9.284	0.000	36311278	25.0	24.7	
						RPD = 4.06	
14 alpha-Chlordane							
1	7.688	7.688	0.000	32093726	25.0	24.0	
2	9.583	9.583	0.000	35269381	25.0	24.8	
						RPD = 3.43	
15 Endosulfan I							
1	7.960	7.960	0.000	28210000	25.0	23.0	
2	9.652	9.652	0.000	31721257	25.0	24.0	
						RPD = 4.35	
16 4,4'-DDE							
1	8.067	8.067	0.000	23203976	25.0	19.6	
2	10.011	10.011	0.000	27828661	25.0	21.1	
						RPD = 7.32	
17 Dieldrin							
1	8.512	8.512	0.000	29845262	25.0	22.8	
2	10.166	10.166	0.000	32363640	25.0	23.7	
						RPD = 3.58	
18 Endrin							
1	8.964	8.964	0.000	24622711	25.0	21.4	
2	10.679	10.679	0.000	25668396	25.0	21.3	
						RPD = 0.44	
20 4,4'-DDD							
1	9.335	9.335	0.000	13179172	25.0	15.1	
2	11.006	11.006	0.000	16261445	25.0	16.6	
						RPD = 9.29	
21 Endosulfan II							
1	9.415	9.415	0.000	26591144	25.0	23.0	
2	11.049	11.049	0.000	29180565	25.0	25.0	
						RPD = 8.21	
23 4,4'-DDT							
1	9.845	9.845	0.000	17420270	25.0	18.2	
2	11.487	11.487	0.000	18378524	25.0	18.4	
						RPD = 0.97	
25 Endrin aldehyde							
1	10.212	10.212	0.000	18043484	25.0	20.3	
2	11.609	11.609	0.000	18771669	25.0	20.1	
						RPD = 0.76	
27 Methoxychlor							
1	10.798	10.798	0.000	8170907	25.0	17.8	
2	12.555	12.555	0.000	8932806	25.0	18.3	
						RPD = 2.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.934	10.934	0.000	21532581	25.0	21.6	
2	12.030	12.030	0.000	22397188	25.0	21.1	
						RPD = 2.19	
29 Endrin ketone							
1	11.336	11.336	0.000	25923610	25.0	21.2	
2	12.775	12.775	0.000	25860007	25.0	21.1	
						RPD = 0.73	
$ 30 DCB Decachlorobiphenyl							
1	12.942	12.942	0.000	18422726	25.0	19.7	
2	14.494	14.494	0.000	19918645	25.0	19.6	
						RPD = 0.54	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

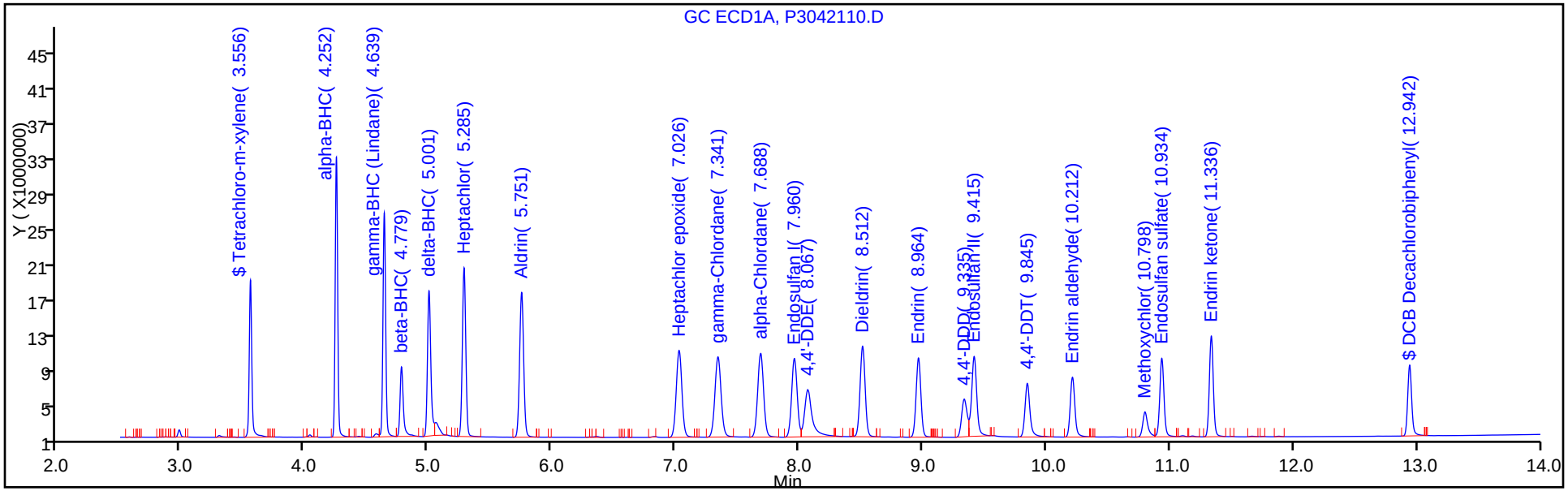
Report Date: 22-Apr-2015 08:58:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

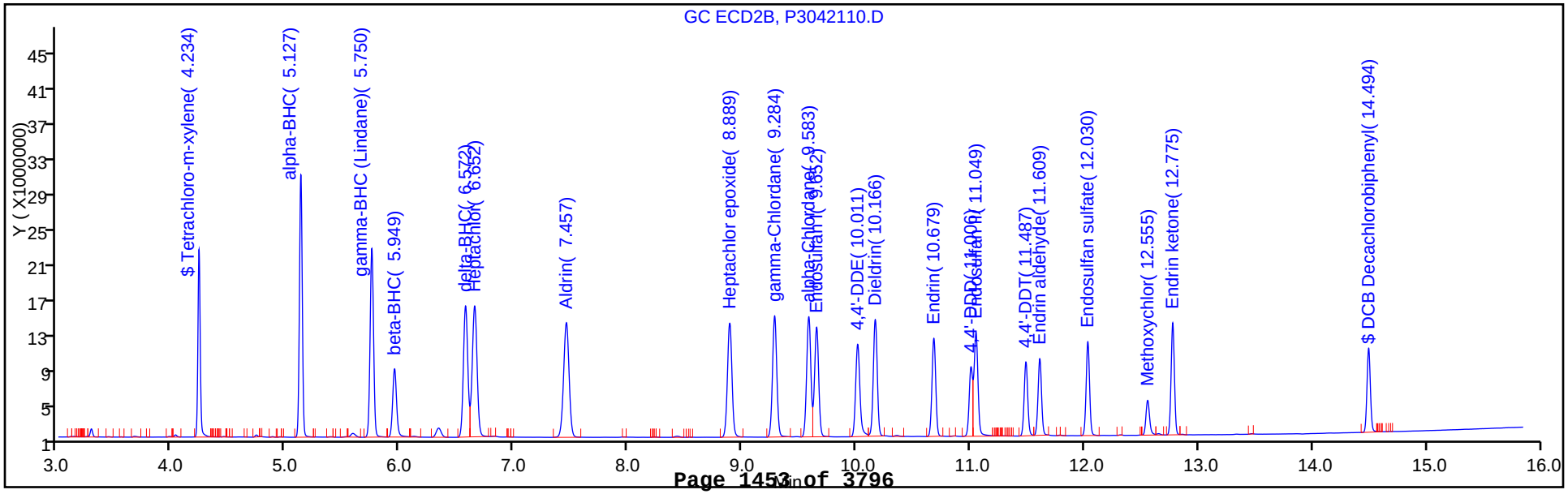
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D

Injection Date:	21-Apr-2015 16:19:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2082335		26.6	25.0	6.4	20.0
gamma-BHC (Lindane)	Ave	1769514	1824975		25.8	25.0	3.1	20.0
beta-BHC	Ave	768367	754588		24.6	25.0	-1.8	20.0
delta-BHC	Ave	1774158	1615992		22.8	25.0	-8.9	20.0
Heptachlor	Ave	1690527	1777690		26.3	25.0	5.2	20.0
Aldrin	Ave	1672196	1752036		26.2	25.0	4.8	20.0
Heptachlor epoxide	Ave	1435426	1445575		25.2	25.0	0.7	20.0
gamma-Chlordane	Ave	1471152	1452451		24.7	25.0	-1.3	20.0
alpha-Chlordane	Ave	1420369	1410775		24.8	25.0	-0.7	20.0
Endosulfan I	Ave	1321597	1268850		24.0	25.0	-4.0	20.0
4,4'-DDE	Ave	1320422	1113146		21.1	25.0	-15.7	20.0
Dieldrin	Ave	1368089	1294546		23.7	25.0	-5.4	20.0
Endrin	Ave	1205577	1026736		21.3	25.0	-14.8	20.0
4,4'-DDD	Ave	978644	650458		16.6	25.0	-33.5*	20.0
Endosulfan II	Ave	1169425	1167223		25.0	25.0	-0.2	20.0
4,4'-DDT	Ave	997996	735141		18.4	25.0	-26.3*	20.0
Endrin aldehyde	Ave	933862	750867		20.1	25.0	-19.6	20.0
Endosulfan sulfate	Ave	1059131	895888		21.1	25.0	-15.4	20.0
Methoxychlor	Ave	489196	357312		18.3	25.0	-27.0*	20.0
Endrin ketone	Ave	1227876	1034400		21.1	25.0	-15.8	20.0
Tetrachloro-m-xylene	Ave	1127022	1229915		27.3	25.0	9.1	20.0
DCB Decachlorobiphenyl	Ave	1017987	796746		19.6	25.0	-21.7*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.28	9.25	9.31
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.56	12.53	12.59
Endrin ketone	12.78	12.75	12.81
Tetrachloro-m-xylene	4.23	4.20	4.26
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 16:19:17 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-010
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:42 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.556	0.000	26453014	25.0	26.9	
2	4.234	4.234	0.000	30747869	25.0	27.3	
						RPD = 1.43	
4 alpha-BHC							
1	4.252	4.252	0.000	45219784	25.0	26.1	
2	5.127	5.127	0.000	52058366	25.0	26.6	
						RPD = 1.83	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	39109531	25.0	25.3	
2	5.750	5.750	0.000	45624379	25.0	25.8	
						RPD = 1.76	
6 beta-BHC							
1	4.779	4.779	0.000	14946815	25.0	23.7	
2	5.949	5.949	0.000	18864703	25.0	24.6	
						RPD = 3.40	
7 delta-BHC							
1	5.001	5.001	0.000	31779836	25.0	21.1	
2	6.572	6.572	0.000	40399794	25.0	22.8	
						RPD = 7.40	
9 Heptachlor							
1	5.285	5.285	0.000	37493329	25.0	25.7	
2	6.652	6.652	0.000	44442253	25.0	26.3	
						RPD = 2.29	
10 Aldrin							
1	5.751	5.751	0.000	38013765	25.0	26.0	
2	7.457	7.457	0.000	43800899	25.0	26.2	
						RPD = 0.73	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.026	7.026	0.000	31794557	25.0	24.4	
2	8.889	8.889	0.000	36139374	25.0	25.2	
						RPD = 3.20	
13 gamma-Chlordane							
1	7.341	7.341	0.000	32010675	25.0	23.7	
2	9.284	9.284	0.000	36311278	25.0	24.7	
						RPD = 4.06	
14 alpha-Chlordane							
1	7.688	7.688	0.000	32093726	25.0	24.0	
2	9.583	9.583	0.000	35269381	25.0	24.8	
						RPD = 3.43	
15 Endosulfan I							
1	7.960	7.960	0.000	28210000	25.0	23.0	
2	9.652	9.652	0.000	31721257	25.0	24.0	
						RPD = 4.35	
16 4,4'-DDE							
1	8.067	8.067	0.000	23203976	25.0	19.6	
2	10.011	10.011	0.000	27828661	25.0	21.1	
						RPD = 7.32	
17 Dieldrin							
1	8.512	8.512	0.000	29845262	25.0	22.8	
2	10.166	10.166	0.000	32363640	25.0	23.7	
						RPD = 3.58	
18 Endrin							
1	8.964	8.964	0.000	24622711	25.0	21.4	
2	10.679	10.679	0.000	25668396	25.0	21.3	
						RPD = 0.44	
20 4,4'-DDD							
1	9.335	9.335	0.000	13179172	25.0	15.1	
2	11.006	11.006	0.000	16261445	25.0	16.6	
						RPD = 9.29	
21 Endosulfan II							
1	9.415	9.415	0.000	26591144	25.0	23.0	
2	11.049	11.049	0.000	29180565	25.0	25.0	
						RPD = 8.21	
23 4,4'-DDT							
1	9.845	9.845	0.000	17420270	25.0	18.2	
2	11.487	11.487	0.000	18378524	25.0	18.4	
						RPD = 0.97	
25 Endrin aldehyde							
1	10.212	10.212	0.000	18043484	25.0	20.3	
2	11.609	11.609	0.000	18771669	25.0	20.1	
						RPD = 0.76	
27 Methoxychlor							
1	10.798	10.798	0.000	8170907	25.0	17.8	
2	12.555	12.555	0.000	8932806	25.0	18.3	
						RPD = 2.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.934	10.934	0.000	21532581	25.0	21.6	
2	12.030	12.030	0.000	22397188	25.0	21.1	
						RPD = 2.19	
29 Endrin ketone							
1	11.336	11.336	0.000	25923610	25.0	21.2	
2	12.775	12.775	0.000	25860007	25.0	21.1	
						RPD = 0.73	
$ 30 DCB Decachlorobiphenyl							
1	12.942	12.942	0.000	18422726	25.0	19.7	
2	14.494	14.494	0.000	19918645	25.0	19.6	
						RPD = 0.54	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

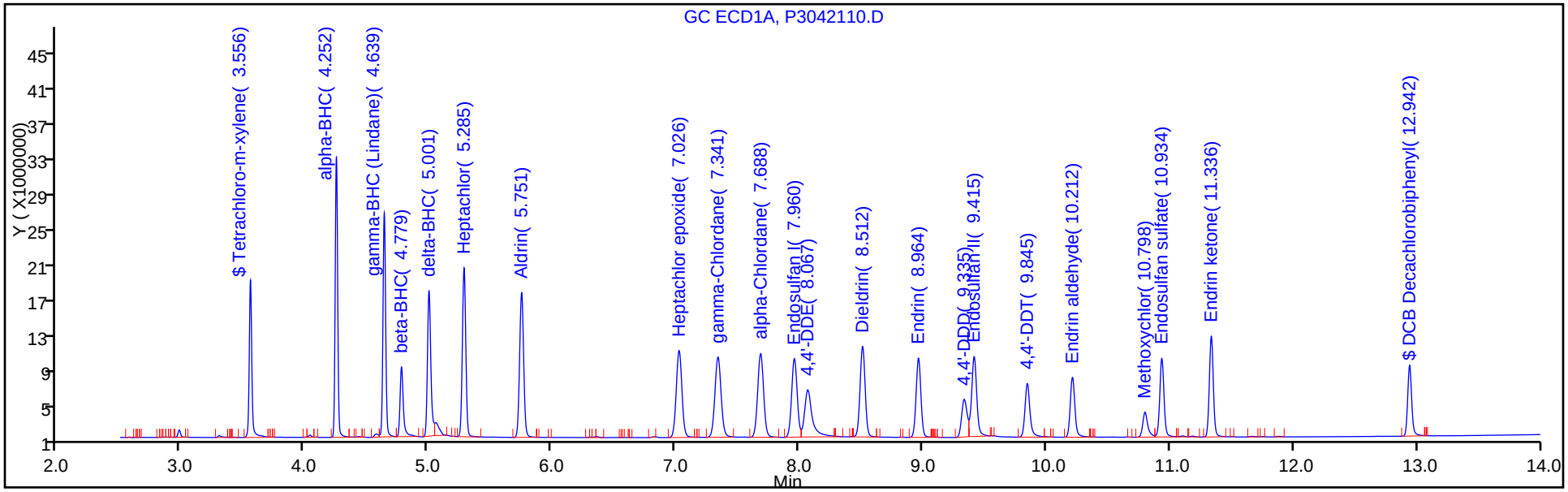
Report Date: 22-Apr-2015 08:58:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

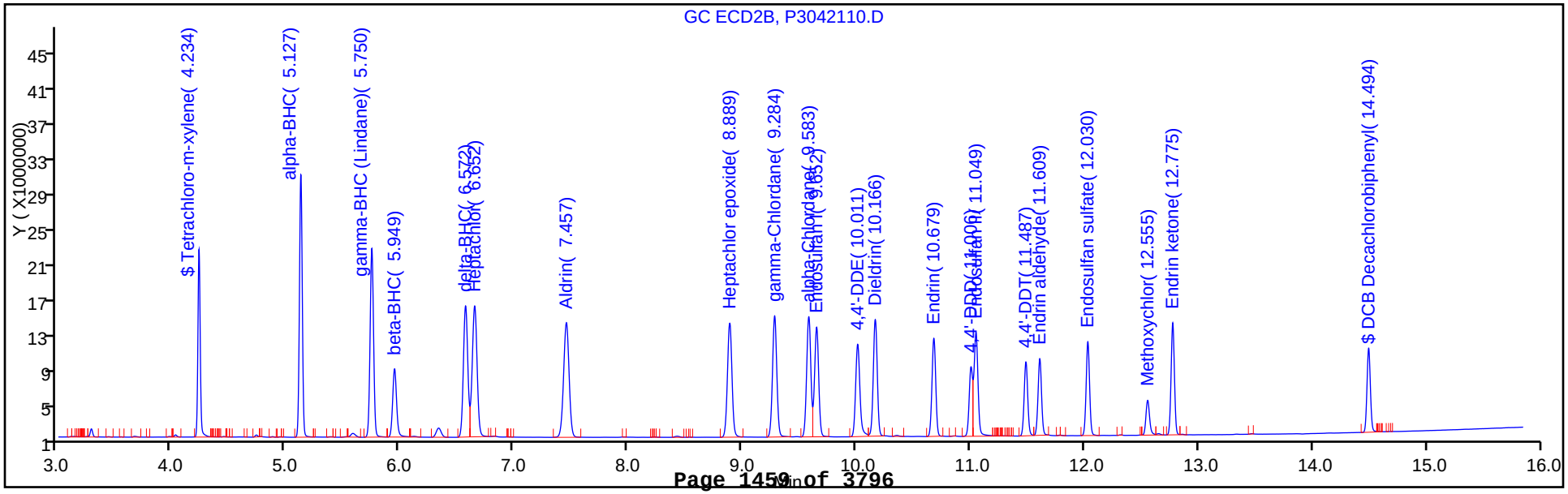
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D

Injection Date:	21-Apr-2015 16:19:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	2116480		30.6	25.0	22.2*	20.0
gamma-BHC (Lindane)	Ave	1543740	1870261		30.3	25.0	21.2*	20.0
beta-BHC	Ave	629842	728275		28.9	25.0	15.6	20.0
delta-BHC	Ave	1502830	1788197		29.7	25.0	19.0	20.0
Heptachlor	Ave	1459223	1838231		31.5	25.0	26.0*	20.0
Aldrin	Ave	1461888	1737847		29.7	25.0	18.9	20.0
Heptachlor epoxide	Ave	1303871	1570022		30.1	25.0	20.4*	20.0
gamma-Chlordane	Ave	1350629	1574471		29.1	25.0	16.6	20.0
alpha-Chlordane	Ave	1337609	1565501		29.3	25.0	17.0	20.0
Endosulfan I	Ave	1227519	1473268		30.0	25.0	20.0	20.0
4,4'-DDE	Ave	1184677	1437458		30.3	25.0	21.3*	20.0
Dieldrin	Ave	1307595	1570280		30.0	25.0	20.1*	20.0
Endrin	Ave	1151386	1426849		31.0	25.0	23.9*	20.0
4,4'-DDD	Ave	870416	1182765		34.0	25.0	35.9*	20.0
Endosulfan II	Ave	1156896	1413060		30.5	25.0	22.1*	20.0
4,4'-DDT	Ave	955198	963556		25.2	25.0	0.9	20.0
Endrin aldehyde	Ave	890839	1053546		29.6	25.0	18.3	20.0
Methoxychlor	Ave	458228	515307		28.1	25.0	12.5	20.0
Endosulfan sulfate	Ave	996194	1201579		30.2	25.0	20.6*	20.0
Endrin ketone	Ave	1221980	1434137		29.3	25.0	17.4	20.0
Tetrachloro-m-xylene	Ave	983528	1182203		30.1	25.0	20.2*	20.0
DCB Decachlorobiphenyl	Ave	936456	1081895		28.9	25.0	15.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.28	5.25	5.31
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.02	6.99	7.05
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.68	7.65	7.71
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.06	8.03	8.09
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.32	9.29	9.35
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.79	10.76	10.82
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.33	11.30	11.36
Tetrachloro-m-xylene	3.55	3.52	3.58
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 03:48:08 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-040
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:35:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	29555063	25.0	30.1	
2	4.235	4.235	0.000	32939364	25.0	29.2	
						RPD = 2.78	
4 alpha-BHC							
1	4.250	4.250	0.000	52911988	25.0	30.6	
2	5.128	5.128	0.000	58897626	25.0	30.1	
						RPD = 1.53	
5 gamma-BHC (Lindane)							
1	4.637	4.637	0.000	46756527	25.0	30.3	
2	5.751	5.751	0.000	52691645	25.0	29.8	
						RPD = 1.70	
6 beta-BHC							M
1	4.775	4.775	0.000	18206886	25.0	28.9	M
2	5.950	5.950	0.000	22238624	25.0	28.9	
						RPD = 0.12	
7 delta-BHC							
1	4.998	4.998	0.000	44704926	25.0	29.7	
2	6.573	6.573	0.000	51700857	25.0	29.1	
						RPD = 2.06	
9 Heptachlor							
1	5.283	5.283	0.000	45955772	25.0	31.5	
2	6.653	6.653	0.000	51905425	25.0	30.7	
						RPD = 2.54	
10 Aldrin							
1	5.748	5.748	0.000	43446167	25.0	29.7	
2	7.458	7.458	0.000	48979415	25.0	29.3	
						RPD = 1.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.021	7.021	0.000	39250553	25.0	30.1	
2	8.889	8.889	0.000	42490686	25.0	29.6	
						RPD = 1.68	
13 gamma-Chlordane							
1	7.337	7.337	0.000	39361766	25.0	29.1	
2	9.285	9.285	0.000	41937267	25.0	28.5	
						RPD = 2.21	
14 alpha-Chlordane							
1	7.682	7.682	0.000	39137523	25.0	29.3	
2	9.583	9.583	0.000	40649142	25.0	28.6	
						RPD = 2.21	
15 Endosulfan I							
1	7.957	7.957	0.000	36831688	25.0	30.0	
2	9.651	9.651	0.000	38575115	25.0	29.2	
						RPD = 2.76	
16 4,4'-DDE							
1	8.056	8.056	0.000	35936444	25.0	30.3	
2	10.009	10.009	0.000	38637884	25.0	29.3	
						RPD = 3.60	
17 Dieldrin							
1	8.508	8.508	0.000	39256989	25.0	30.0	
2	10.167	10.167	0.000	39661860	25.0	29.0	
						RPD = 3.50	
18 Endrin							
1	8.962	8.962	0.000	35671222	25.0	31.0	
2	10.680	10.680	0.000	34363335	25.0	28.5	
						RPD = 8.33	
20 4,4'-DDD							
1	9.322	9.322	0.000	29569121	25.0	34.0	
2	11.004	11.004	0.000	30178584	25.0	30.8	
						RPD = 9.67	
21 Endosulfan II							
1	9.411	9.411	0.000	35326493	25.0	30.5	
2	11.050	11.050	0.000	35384417	25.0	30.3	
						RPD = 0.91	
23 4,4'-DDT							
1	9.838	9.838	0.000	24088909	25.0	25.2	
2	11.487	11.487	0.000	22587477	25.0	22.6	
						RPD = 10.81	
25 Endrin aldehyde							
1	10.206	10.206	0.000	26338638	25.0	29.6	
2	11.609	11.609	0.000	26098630	25.0	27.9	
						RPD = 5.63	
27 Methoxychlor							
1	10.789	10.789	0.000	12882686	25.0	28.1	
2	12.553	12.553	0.000	12237895	25.0	25.0	
						RPD = 11.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	30039475	25.0	30.2	
2	12.030	12.030	0.000	30288870	25.0	28.6	
						RPD = 5.30	
29 Endrin ketone							
1	11.333	11.333	0.000	35853430	25.0	29.3	
2	12.773	12.773	0.000	35206578	25.0	28.7	
						RPD = 2.30	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	27047381	25.0	28.9	
2	14.493	14.493	0.000	28316814	25.0	27.8	
						RPD = 3.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

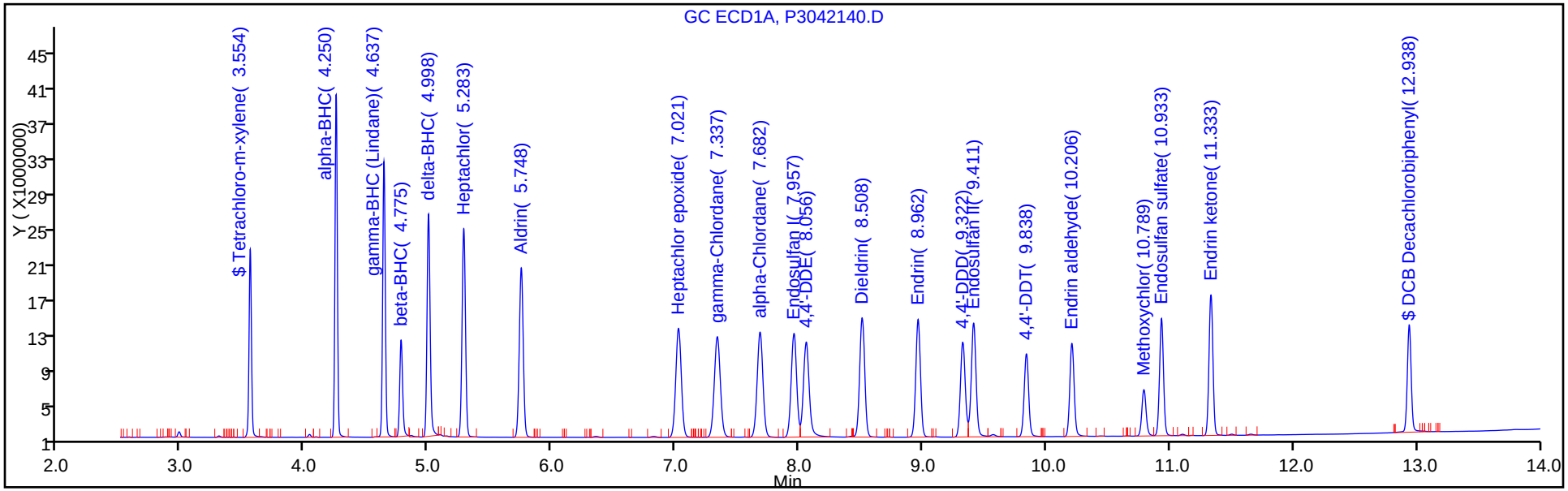
Report Date: 22-Apr-2015 08:58:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

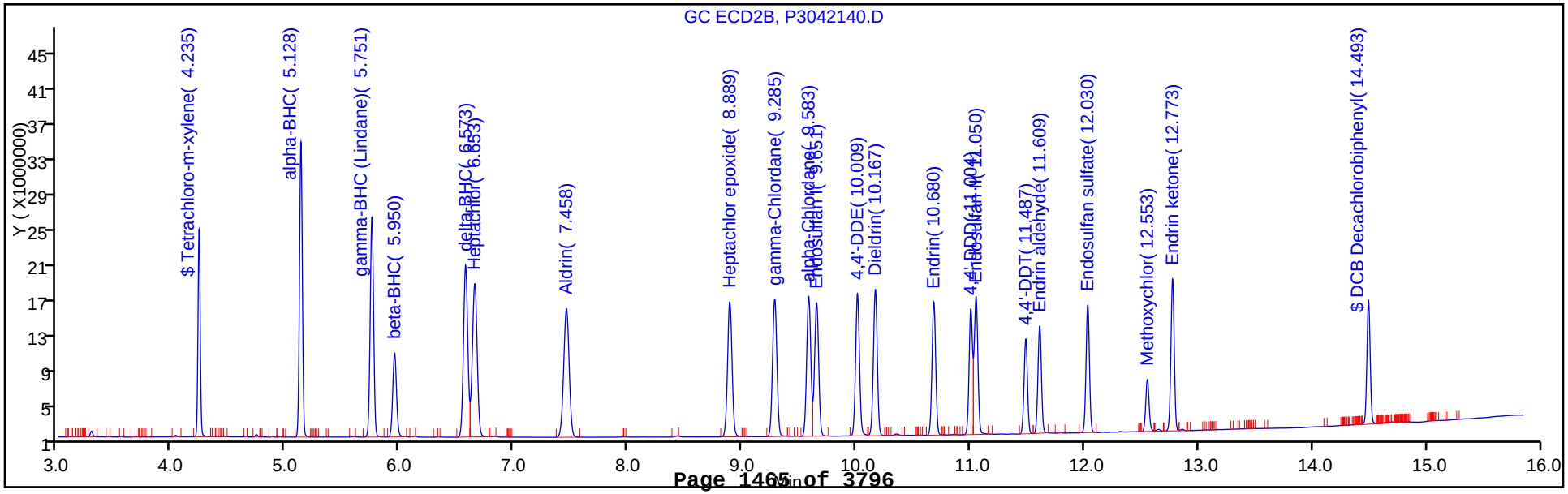
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D

Injection Date:	22-Apr-2015 03:48:08	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

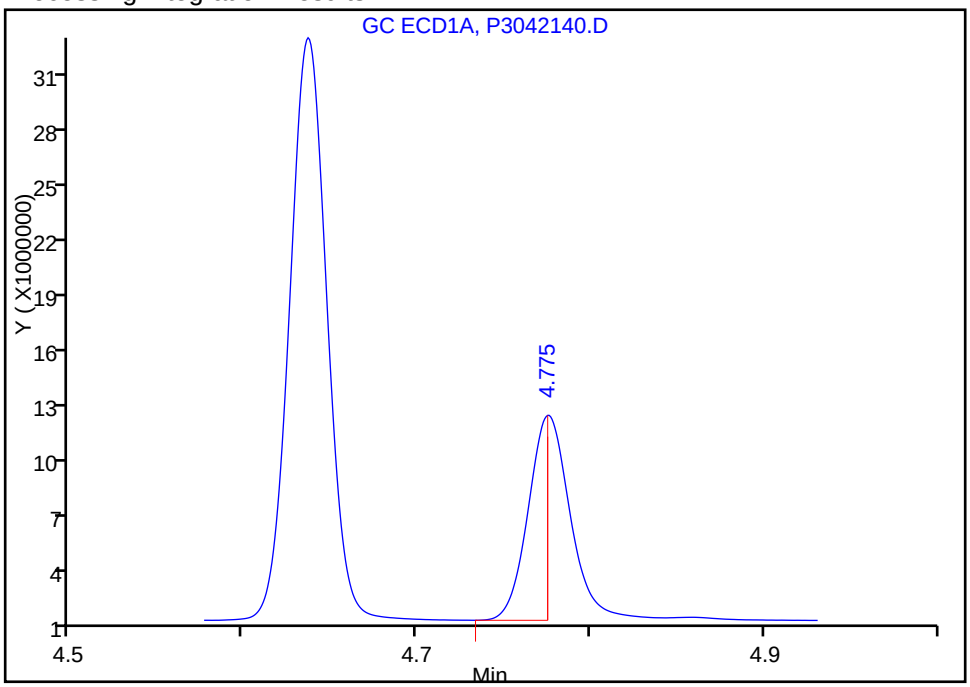
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D
Injection Date: 22-Apr-2015 03:48:08 Instrument ID: A2HP3
Lims ID: CCV AB3
Client ID:
Operator ID: 430893 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PEST3 Limit Group: GC 8081 D0D ICAL
Column: Detector GC ECD1A

6 beta-BHC, CAS: 319-85-7

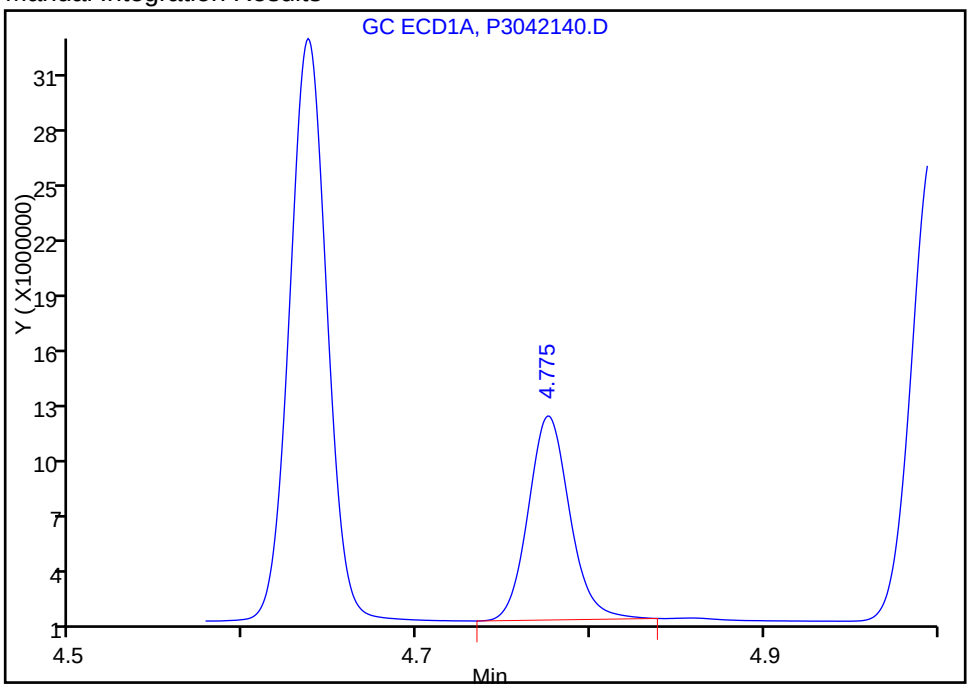
Processing Integration Results

RT: 4.78
Area: 8441079
Amount: 13.401906
Amount Units: ug/l



Manual Integration Results

RT: 4.78
Area: 18206886
Amount: 28.907083
Amount Units: ug/l



Reviewer: matthewsb, 22-Apr-2015 07:35:09
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2355905		30.1	25.0	20.4*	20.0
gamma-BHC (Lindane)	Ave	1769514	2107666		29.8	25.0	19.1	20.0
beta-BHC	Ave	768367	889545		28.9	25.0	15.8	20.0
delta-BHC	Ave	1774158	2068034		29.1	25.0	16.6	20.0
Heptachlor	Ave	1690527	2076217		30.7	25.0	22.8*	20.0
Aldrin	Ave	1672196	1959177		29.3	25.0	17.2	20.0
Heptachlor epoxide	Ave	1435426	1699627		29.6	25.0	18.4	20.0
gamma-Chlordane	Ave	1471152	1677491		28.5	25.0	14.0	20.0
alpha-Chlordane	Ave	1420369	1625966		28.6	25.0	14.5	20.0
Endosulfan I	Ave	1321597	1543005		29.2	25.0	16.8	20.0
4,4'-DDE	Ave	1320422	1545515		29.3	25.0	17.0	20.0
Dieldrin	Ave	1368089	1586474		29.0	25.0	16.0	20.0
Endrin	Ave	1205577	1374533		28.5	25.0	14.0	20.0
4,4'-DDD	Ave	978644	1207143		30.8	25.0	23.3*	20.0
Endosulfan II	Ave	1169425	1415377		30.3	25.0	21.0*	20.0
4,4'-DDT	Ave	997996	903499		22.6	25.0	-9.5	20.0
Endrin aldehyde	Ave	933862	1043945		27.9	25.0	11.8	20.0
Endosulfan sulfate	Ave	1059131	1211555		28.6	25.0	14.4	20.0
Methoxychlor	Ave	489196	489516		25.0	25.0	0.0	20.0
Endrin ketone	Ave	1227876	1408263		28.7	25.0	14.7	20.0
Tetrachloro-m-xylene	Ave	1127022	1317575		29.2	25.0	16.9	20.0
DCB Decachlorobiphenyl	Ave	1017987	1132673		27.8	25.0	11.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.29	9.26	9.32
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.00	10.97	11.03
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.55	12.52	12.58
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.24	4.21	4.27
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 03:48:08 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-040
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:35:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	29555063	25.0	30.1	
2	4.235	4.235	0.000	32939364	25.0	29.2	
						RPD = 2.78	
4 alpha-BHC							
1	4.250	4.250	0.000	52911988	25.0	30.6	
2	5.128	5.128	0.000	58897626	25.0	30.1	
						RPD = 1.53	
5 gamma-BHC (Lindane)							
1	4.637	4.637	0.000	46756527	25.0	30.3	
2	5.751	5.751	0.000	52691645	25.0	29.8	
						RPD = 1.70	
6 beta-BHC							M
1	4.775	4.775	0.000	18206886	25.0	28.9	M
2	5.950	5.950	0.000	22238624	25.0	28.9	
						RPD = 0.12	
7 delta-BHC							
1	4.998	4.998	0.000	44704926	25.0	29.7	
2	6.573	6.573	0.000	51700857	25.0	29.1	
						RPD = 2.06	
9 Heptachlor							
1	5.283	5.283	0.000	45955772	25.0	31.5	
2	6.653	6.653	0.000	51905425	25.0	30.7	
						RPD = 2.54	
10 Aldrin							
1	5.748	5.748	0.000	43446167	25.0	29.7	
2	7.458	7.458	0.000	48979415	25.0	29.3	
						RPD = 1.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.021	7.021	0.000	39250553	25.0	30.1	
2	8.889	8.889	0.000	42490686	25.0	29.6	
						RPD = 1.68	
13 gamma-Chlordane							
1	7.337	7.337	0.000	39361766	25.0	29.1	
2	9.285	9.285	0.000	41937267	25.0	28.5	
						RPD = 2.21	
14 alpha-Chlordane							
1	7.682	7.682	0.000	39137523	25.0	29.3	
2	9.583	9.583	0.000	40649142	25.0	28.6	
						RPD = 2.21	
15 Endosulfan I							
1	7.957	7.957	0.000	36831688	25.0	30.0	
2	9.651	9.651	0.000	38575115	25.0	29.2	
						RPD = 2.76	
16 4,4'-DDE							
1	8.056	8.056	0.000	35936444	25.0	30.3	
2	10.009	10.009	0.000	38637884	25.0	29.3	
						RPD = 3.60	
17 Dieldrin							
1	8.508	8.508	0.000	39256989	25.0	30.0	
2	10.167	10.167	0.000	39661860	25.0	29.0	
						RPD = 3.50	
18 Endrin							
1	8.962	8.962	0.000	35671222	25.0	31.0	
2	10.680	10.680	0.000	34363335	25.0	28.5	
						RPD = 8.33	
20 4,4'-DDD							
1	9.322	9.322	0.000	29569121	25.0	34.0	
2	11.004	11.004	0.000	30178584	25.0	30.8	
						RPD = 9.67	
21 Endosulfan II							
1	9.411	9.411	0.000	35326493	25.0	30.5	
2	11.050	11.050	0.000	35384417	25.0	30.3	
						RPD = 0.91	
23 4,4'-DDT							
1	9.838	9.838	0.000	24088909	25.0	25.2	
2	11.487	11.487	0.000	22587477	25.0	22.6	
						RPD = 10.81	
25 Endrin aldehyde							
1	10.206	10.206	0.000	26338638	25.0	29.6	
2	11.609	11.609	0.000	26098630	25.0	27.9	
						RPD = 5.63	
27 Methoxychlor							
1	10.789	10.789	0.000	12882686	25.0	28.1	
2	12.553	12.553	0.000	12237895	25.0	25.0	
						RPD = 11.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	30039475	25.0	30.2	
2	12.030	12.030	0.000	30288870	25.0	28.6	
						RPD = 5.30	
29 Endrin ketone							
1	11.333	11.333	0.000	35853430	25.0	29.3	
2	12.773	12.773	0.000	35206578	25.0	28.7	
						RPD = 2.30	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	27047381	25.0	28.9	
2	14.493	14.493	0.000	28316814	25.0	27.8	
						RPD = 3.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

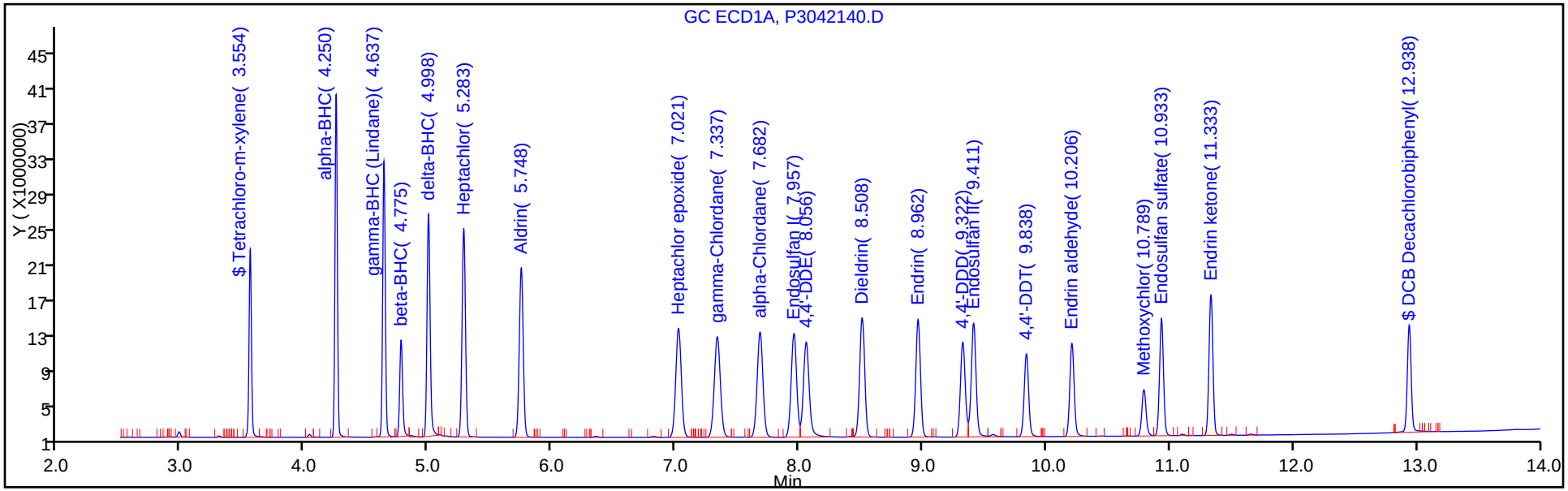
Report Date: 22-Apr-2015 08:58:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

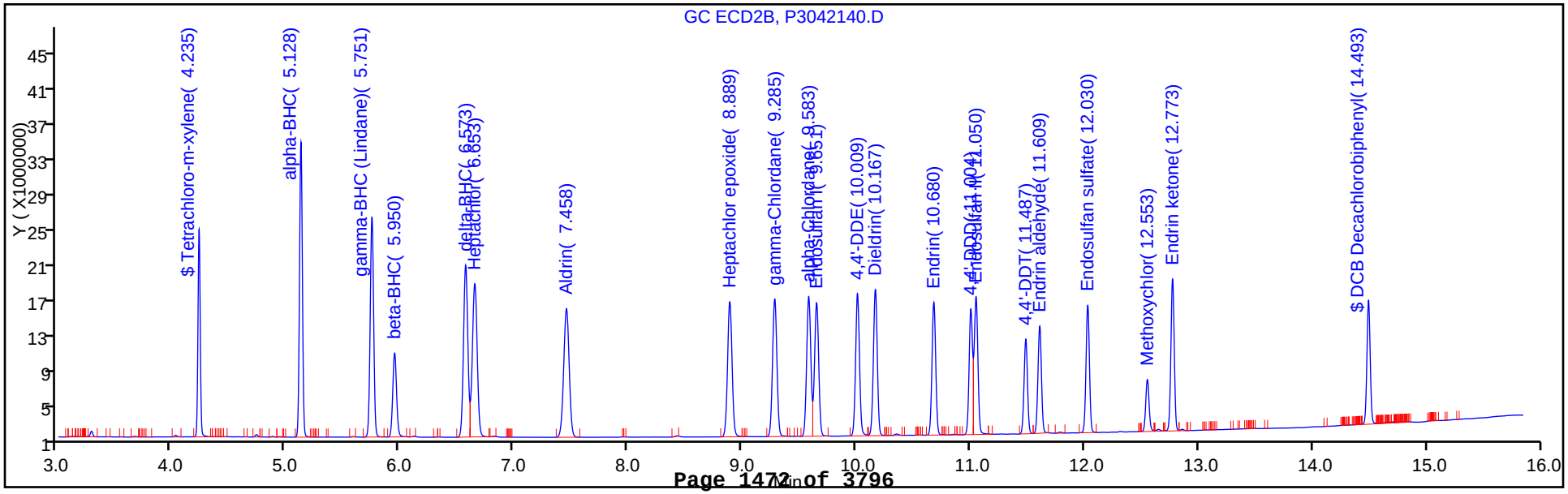
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D

Injection Date:	22-Apr-2015 03:48:08	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	38595		1020	1000	2.0	20.0
Toxaphene Peak 2	Ave	36644	35137		959	1000	-4.1	20.0
Toxaphene Peak 3	Ave	23355	20327		870	1000	-13.0	20.0
Toxaphene Peak 4	Ave	33176	29991		904	1000	-9.6	20.0
Toxaphene Peak 5	Ave	32330	24173		748	1000	-25.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.62	9.59	9.65
Toxaphene Peak 2	10.08	10.05	10.11
Toxaphene Peak 3	10.40	10.37	10.43
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.84	10.81	10.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 08:22:45 ALS Bottle#: 52 Worklist Smp#: 52
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-052
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:31 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:56:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.619	9.619	0.000	38595148	1000.0	1020.2	M
1	10.083	10.083	0.000	35136800	1000.0	958.9	M
1	10.396	10.396	0.000	20327024	1000.0	870.4	M
1	10.738	10.738	0.000	29991346	1000.0	904.0	M
1	10.844	10.844	0.000	24173211	1000.0	747.7	M
		Average of Peak Amounts =				900.2	
2	11.027	11.027	0.000	52524589	1000.0	1013.5	M
2	11.196	11.196	0.000	51261832	1000.0	1005.8	M
2	11.620	11.620	0.000	33747227	1000.0	946.9	M
2	12.354	12.354	0.000	40530943	1000.0	888.3	M
2	12.444	12.444	0.000	12401680	1000.0	796.5	M
		Average of Peak Amounts =				930.2	
						RPD = 3.28	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

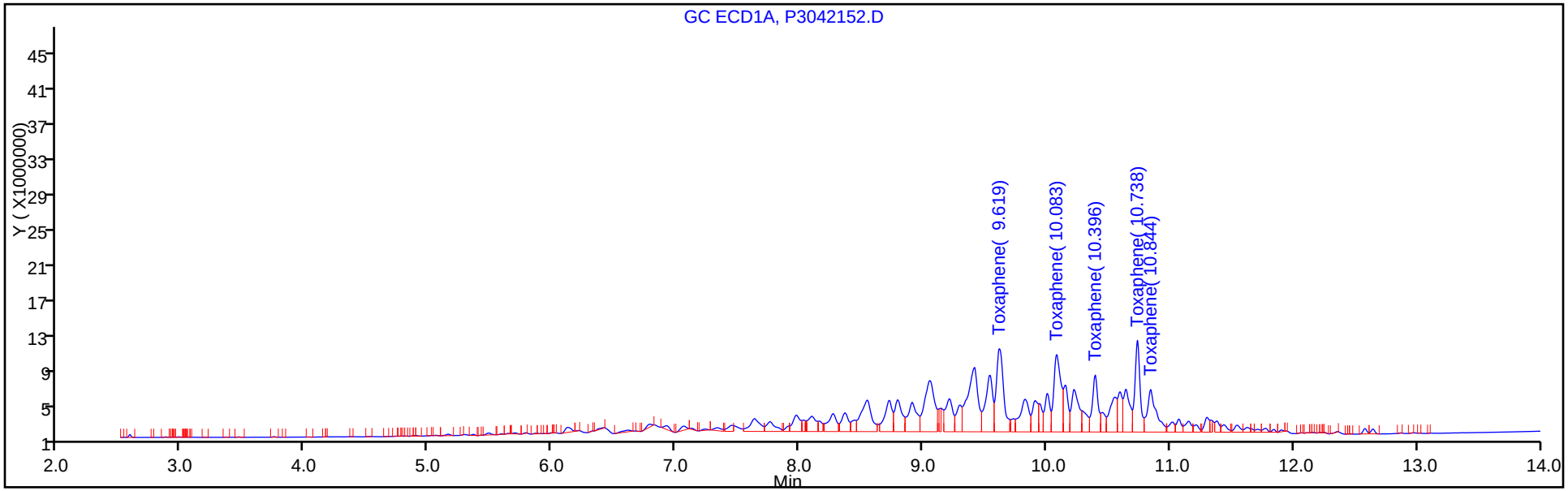
Report Date: 22-Apr-2015 08:58:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

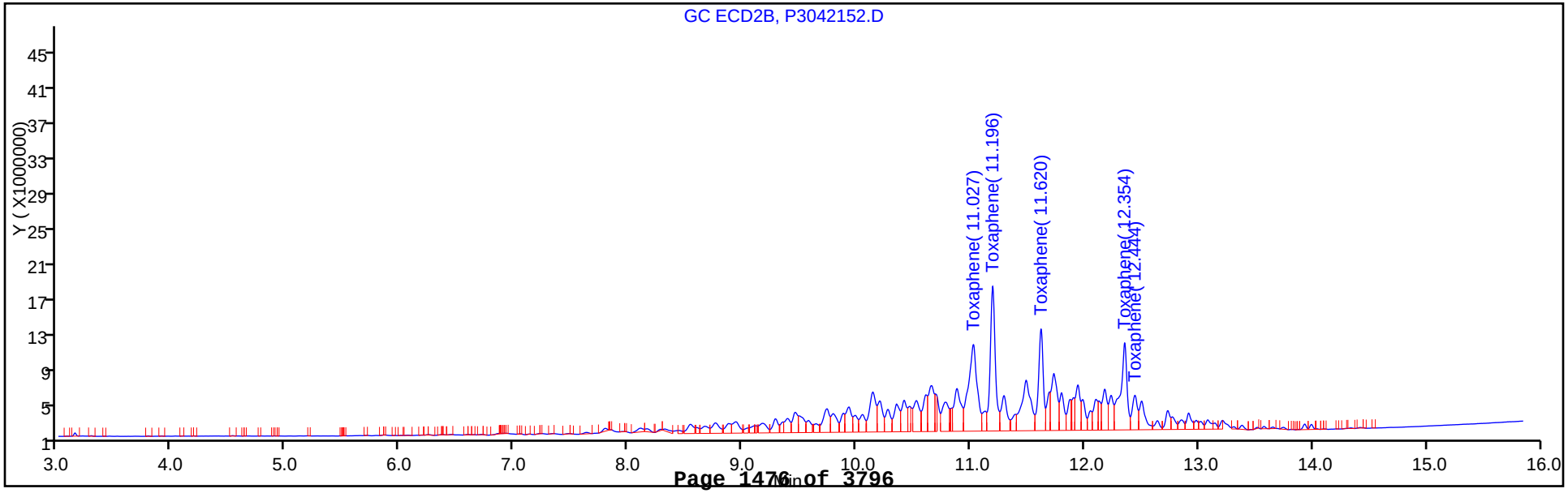
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date:	22-Apr-2015 08:22:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	52
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date: 22-Apr-2015 08:22:45 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

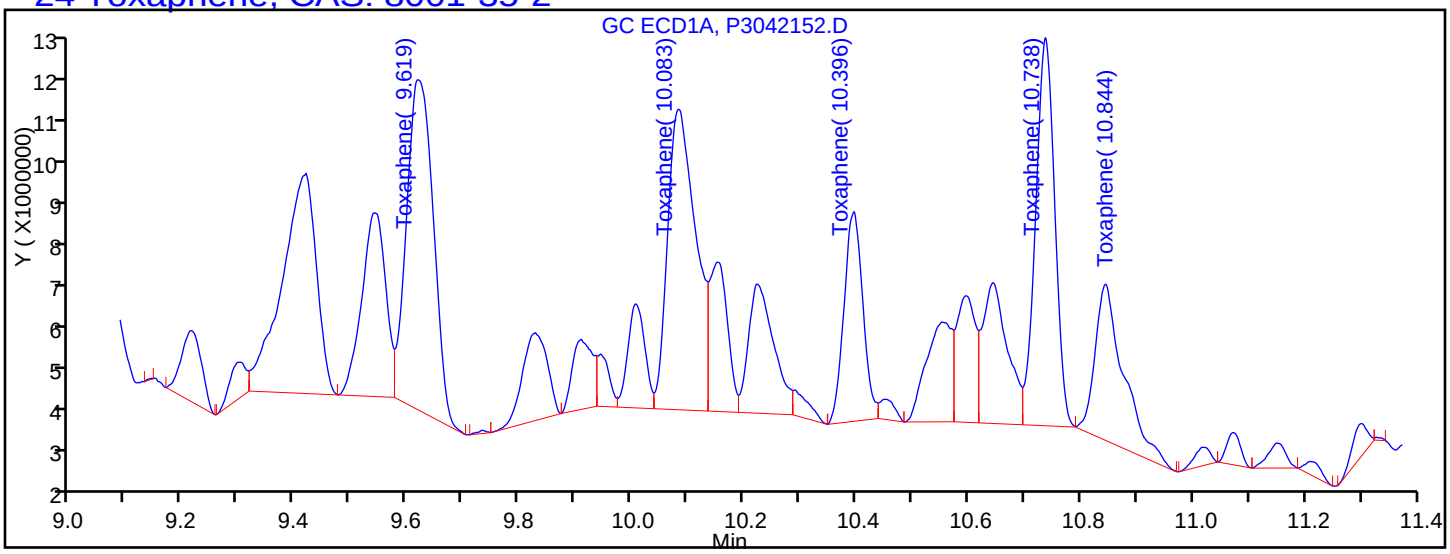
Operator ID: 430893 ALS Bottle#: 52 Worklist Smp#: 52

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

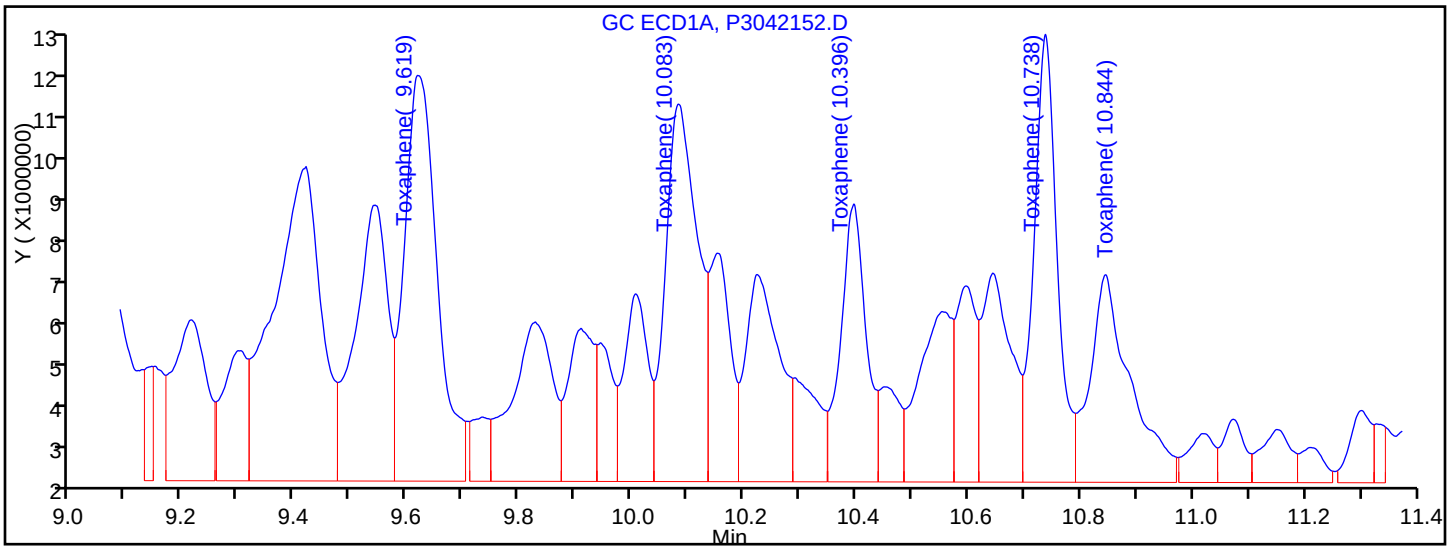
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.619	Response = 24875806	M
RT = 10.083	Response = 23788166	M
RT = 10.396	Response = 11132663	M
RT = 10.738	Response = 20901098	M
RT = 10.844	Response = 12507731	M



Manual Integration Results

RT = 9.619	Response = 38595148	M
RT = 10.083	Response = 35136800	M
RT = 10.396	Response = 20327024	M
RT = 10.738	Response = 29991346	M
RT = 10.844	Response = 24173211	M

Reviewer: matthewsb, 22-Apr-2015 08:57:25

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	52525		1010	1000	1.4	20.0
Toxaphene Peak 2	Ave	50965	51262		1010	1000	0.6	20.0
Toxaphene Peak 3	Ave	35641	33747		947	1000	-5.3	20.0
Toxaphene Peak 4	Ave	45629	40531		888	1000	-11.2	20.0
Toxaphene Peak 5	Ave	15570	12402		797	1000	-20.3*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.03	11.00	11.06
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.44	12.41	12.47

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 08:22:45 ALS Bottle#: 52 Worklist Smp#: 52
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-052
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:31 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:56:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.619	9.619	0.000	38595148	1000.0	1020.2	M
1	10.083	10.083	0.000	35136800	1000.0	958.9	M
1	10.396	10.396	0.000	20327024	1000.0	870.4	M
1	10.738	10.738	0.000	29991346	1000.0	904.0	M
1	10.844	10.844	0.000	24173211	1000.0	747.7	M
		Average of Peak Amounts =				900.2	
2	11.027	11.027	0.000	52524589	1000.0	1013.5	M
2	11.196	11.196	0.000	51261832	1000.0	1005.8	M
2	11.620	11.620	0.000	33747227	1000.0	946.9	M
2	12.354	12.354	0.000	40530943	1000.0	888.3	M
2	12.444	12.444	0.000	12401680	1000.0	796.5	M
		Average of Peak Amounts =				930.2	
						RPD = 3.28	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

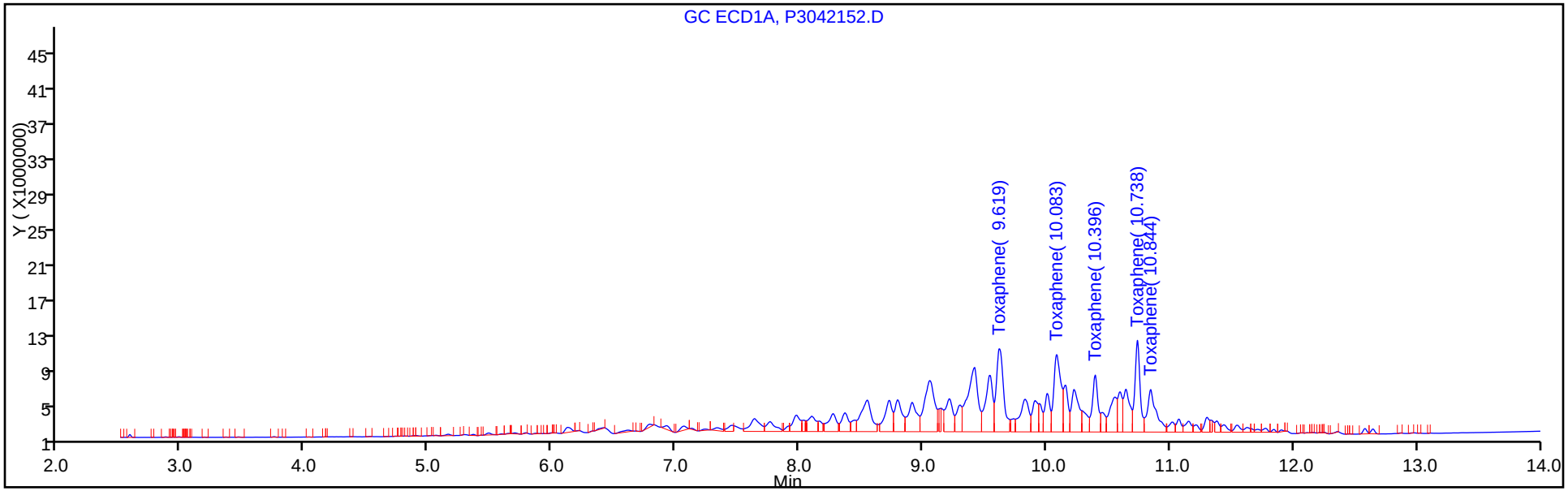
Report Date: 22-Apr-2015 08:58:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

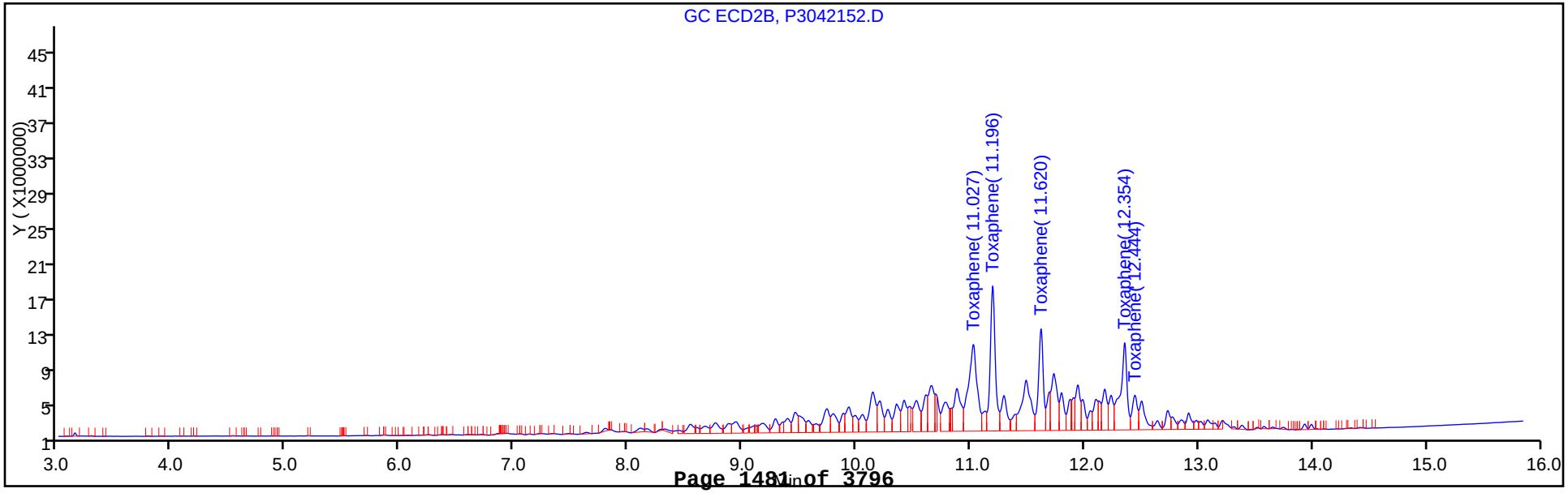
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date:	22-Apr-2015 08:22:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	52
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date: 22-Apr-2015 08:22:45 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

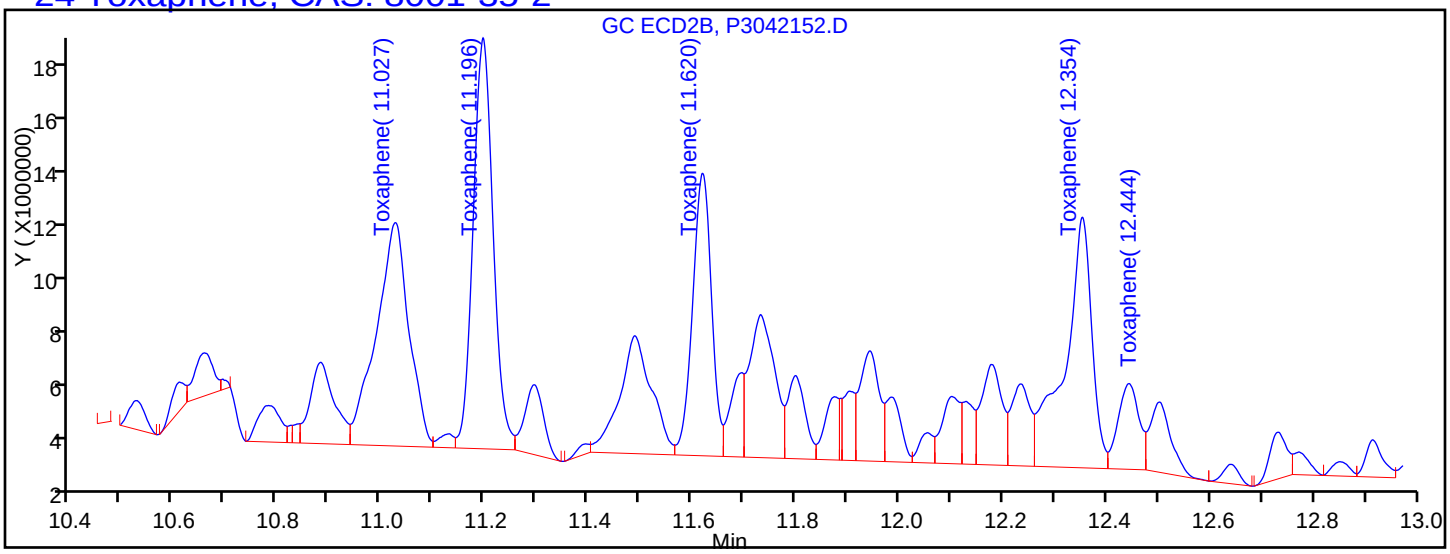
Operator ID: 430893 ALS Bottle#: 52 Worklist Smp#: 52

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

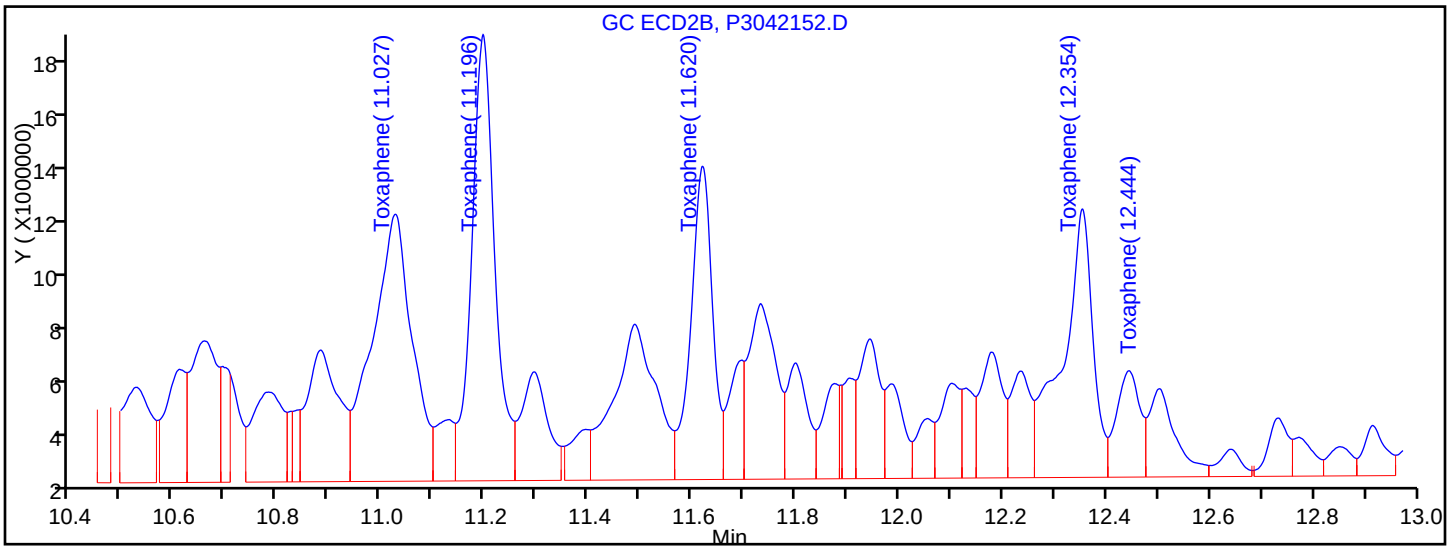
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.027	Response = 34934835	M
RT = 11.196	Response = 39485626	M
RT = 11.620	Response = 25724400	M
RT = 12.354	Response = 32703518	M
RT = 12.444	Response = 8678285	M



Manual Integration Results

RT = 11.027	Response = 52524589	M
RT = 11.196	Response = 51261832	M
RT = 11.620	Response = 33747227	M
RT = 12.354	Response = 40530943	M
RT = 12.444	Response = 12401680	M

Reviewer: matthewsb, 22-Apr-2015 08:56:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/53 Calibration Date: 04/22/2015 08:46

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042153.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	42787	46254		108	100	8.1	20.0
Chlordane (technical) Peak 2	Ave	49308	53357		108	100	8.2	20.0
Chlordane (technical) Peak 3	Ave	166809	177012		106	100	6.1	20.0
Chlordane (technical) Peak 4	Ave	260084	280331		108	100	7.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/53 Calibration Date: 04/22/2015 08:46

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042153.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.17	5.14	5.20
Chlordane (technical) Peak 2	6.06	6.03	6.09
Chlordane (technical) Peak 3	7.34	7.31	7.37
Chlordane (technical) Peak 4	7.68	7.65	7.71

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042153.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 08:46:05 ALS Bottle#: 53 Worklist Smp#: 53
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-053
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 10:28:12 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 10:27:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.168	5.168	0.000	4625372	100.0	108.1	
1	6.057	6.057	0.000	5335650	100.0	108.2	
1	7.341	7.341	0.000	17701244	100.0	106.1	
1	7.682	7.682	0.000	28033100	100.0	107.8	
		Average of Peak Amounts =				107.6	
2	6.325	6.325	0.000	5399383	100.0	110.3	
2	7.950	7.950	0.000	6386332	100.0	110.3	
2	9.285	9.285	0.000	18680876	100.0	105.5	
2	9.582	9.582	0.000	17466029	100.0	110.4	
		Average of Peak Amounts =				109.1	
						RPD = 1.46	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

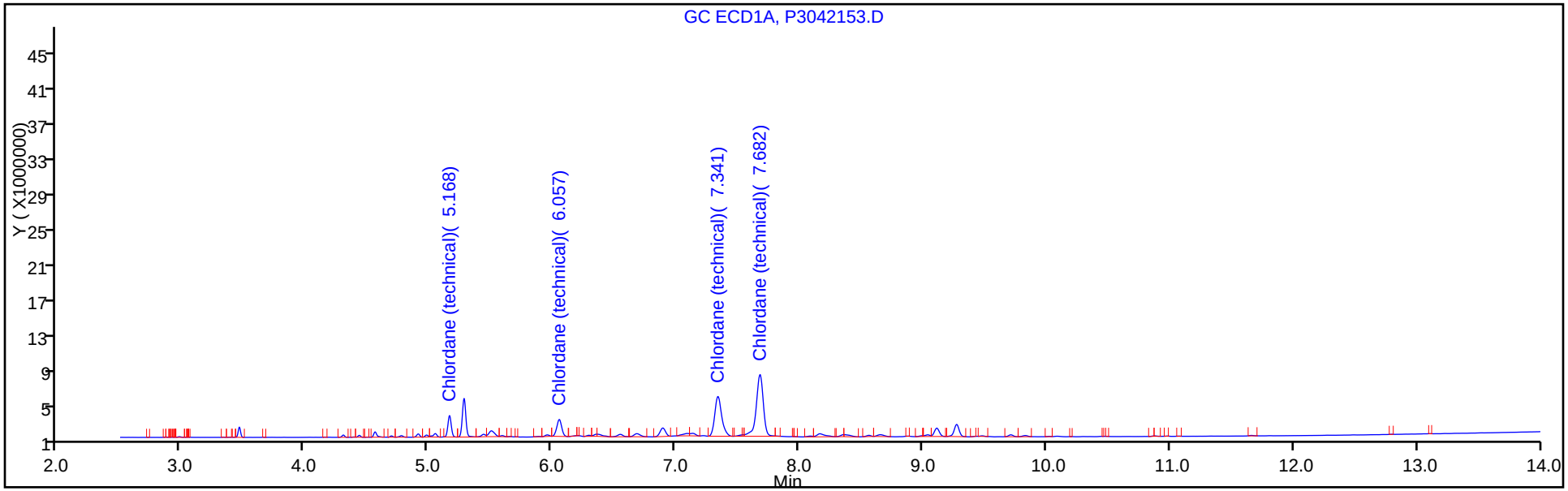
Report Date: 22-Apr-2015 10:28:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

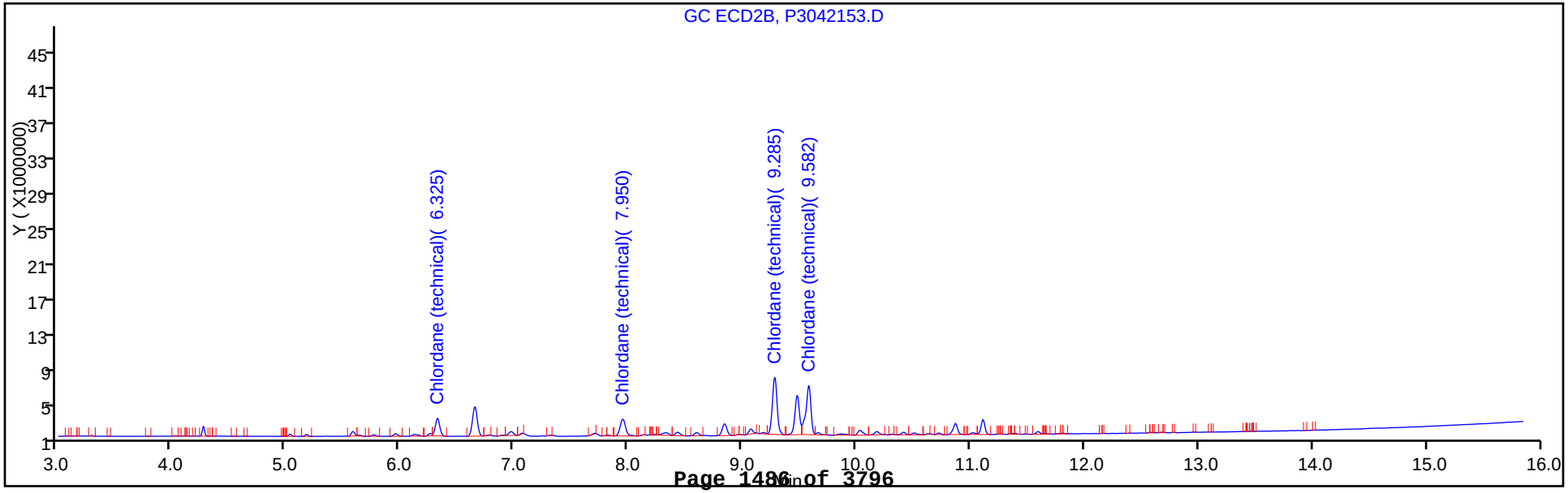
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042153.D

Injection Date:	22-Apr-2015 08:46:05	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	53
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	53
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/53 Calibration Date: 04/22/2015 08:46

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042153.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	48952	53994		110	100	10.3	20.0
Chlordane (technical) Peak 2	Ave	57903	63863		110	100	10.3	20.0
Chlordane (technical) Peak 3	Ave	177058	186809		106	100	5.5	20.0
Chlordane (technical) Peak 4	Ave	158165	174660		110	100	10.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/53 Calibration Date: 04/22/2015 08:46

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042153.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.33	6.30	6.36
Chlordane (technical) Peak 2	7.95	7.92	7.98
Chlordane (technical) Peak 3	9.29	9.26	9.32
Chlordane (technical) Peak 4	9.58	9.55	9.61

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042153.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 08:46:05 ALS Bottle#: 53 Worklist Smp#: 53
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-053
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 10:28:12 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 10:27:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.168	5.168	0.000	4625372	100.0	108.1	
1	6.057	6.057	0.000	5335650	100.0	108.2	
1	7.341	7.341	0.000	17701244	100.0	106.1	
1	7.682	7.682	0.000	28033100	100.0	107.8	
		Average of Peak Amounts =				107.6	
2	6.325	6.325	0.000	5399383	100.0	110.3	
2	7.950	7.950	0.000	6386332	100.0	110.3	
2	9.285	9.285	0.000	18680876	100.0	105.5	
2	9.582	9.582	0.000	17466029	100.0	110.4	
		Average of Peak Amounts =				109.1	
						RPD = 1.46	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

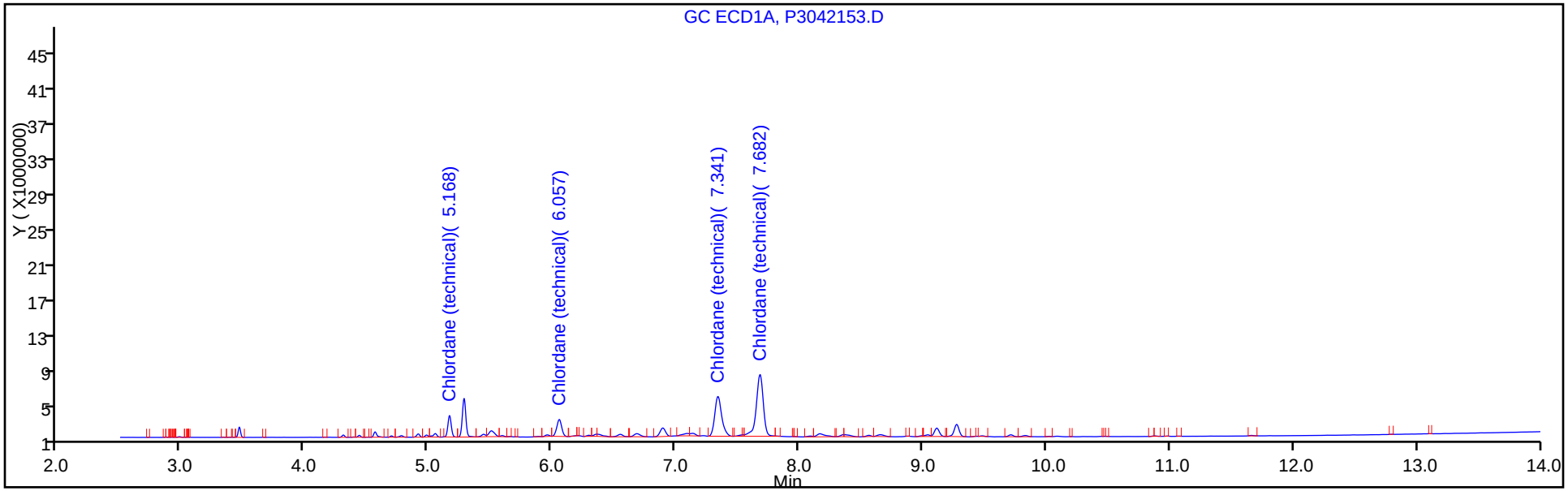
Report Date: 22-Apr-2015 10:28:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

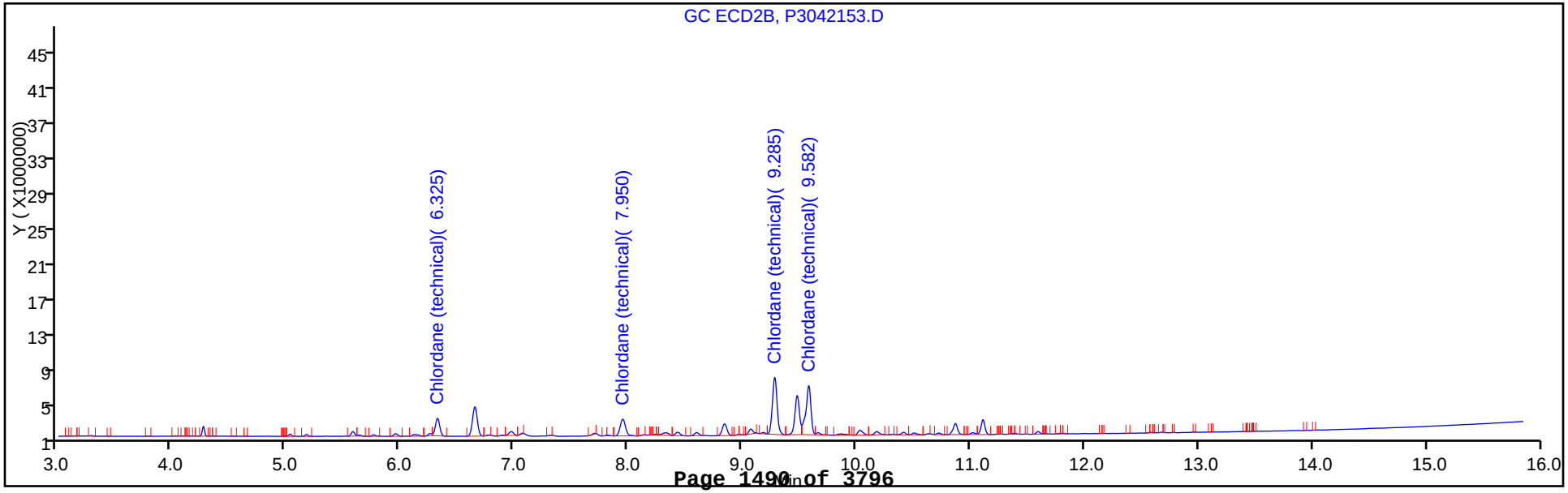
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042153.D

Injection Date:	22-Apr-2015 08:46:05	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	53
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	53
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/54 Calibration Date: 04/22/2015 09:08

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042154.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	2200171		31.8	25.0	27.0*	20.0
gamma-BHC (Lindane)	Ave	1543740	1916398		31.0	25.0	24.1*	20.0
beta-BHC	Ave	629842	728305		28.9	25.0	15.6	20.0
delta-BHC	Ave	1502830	1751779		29.1	25.0	16.6	20.0
Heptachlor	Ave	1459223	1881564		32.2	25.0	28.9*	20.0
Aldrin	Ave	1461888	1815522		31.0	25.0	24.2*	20.0
Heptachlor epoxide	Ave	1303871	1623157		31.1	25.0	24.5*	20.0
gamma-Chlordane	Ave	1350629	1626362		30.1	25.0	20.4*	20.0
alpha-Chlordane	Ave	1337609	1613986		30.2	25.0	20.7*	20.0
Endosulfan I	Ave	1227519	1514904		30.9	25.0	23.4*	20.0
4,4'-DDE	Ave	1184677	1400723		29.6	25.0	18.2	20.0
Dieldrin	Ave	1307595	1629100		31.1	25.0	24.6*	20.0
Endrin	Ave	1151386	1423754		30.9	25.0	23.7*	20.0
4,4'-DDD	Ave	870416	1047116		30.1	25.0	20.3*	20.0
Endosulfan II	Ave	1156896	1546971		33.4	25.0	33.7*	20.0
4,4'-DDT	Ave	955198	830373		21.7	25.0	-13.1	20.0
Endrin aldehyde	Ave	890839	1014383		28.5	25.0	13.9	20.0
Methoxychlor	Ave	458228	444803		24.3	25.0	-2.9	20.0
Endosulfan sulfate	Ave	996194	1213508		30.5	25.0	21.8*	20.0
Endrin ketone	Ave	1221980	1451227		29.7	25.0	18.8	20.0
Tetrachloro-m-xylene	Ave	983528	1225726		31.2	25.0	24.6*	20.0
DCB Decachlorobiphenyl	Ave	936456	1070319		28.6	25.0	14.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/54 Calibration Date: 04/22/2015 09:08

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042154.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.28	5.25	5.31
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.02	6.99	7.05
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.68	7.65	7.71
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.06	8.03	8.09
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.33	9.29	9.35
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.80	10.76	10.82
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.33	11.30	11.36
Tetrachloro-m-xylene	3.56	3.52	3.58
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042154.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 09:08:56 ALS Bottle#: 54 Worklist Smp#: 54
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-054
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 10:28:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.554	0.001	30643139	25.0	31.2	
2	4.234	4.235	-0.001	34878923	25.0	30.9	
						RPD = 0.67	
4 alpha-BHC							
1	4.250	4.250	0.000	55004272	25.0	31.8	
2	5.129	5.128	0.001	61700664	25.0	31.5	
						RPD = 0.76	
5 gamma-BHC (Lindane)							
1	4.638	4.637	0.001	47909961	25.0	31.0	
2	5.750	5.751	-0.001	54612452	25.0	30.9	
						RPD = 0.56	
6 beta-BHC							
1	4.777	4.775	0.002	18207627	25.0	28.9	
2	5.950	5.950	0.000	22759920	25.0	29.6	
						RPD = 2.44	
7 delta-BHC							
1	4.999	4.998	0.001	43794483	25.0	29.1	
2	6.574	6.573	0.001	49921277	25.0	28.1	
						RPD = 3.50	
9 Heptachlor							
1	5.284	5.283	0.001	47039107	25.0	32.2	
2	6.653	6.653	0.000	54881914	25.0	32.5	
						RPD = 0.71	
10 Aldrin							
1	5.749	5.748	0.001	45388039	25.0	31.0	
2	7.459	7.458	0.001	51487560	25.0	30.8	
						RPD = 0.83	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.024	7.021	0.003	40578929	25.0	31.1	
2	8.890	8.889	0.001	44679477	25.0	31.1	
						RPD = 0.01	
13 gamma-Chlordane							
1	7.338	7.337	0.001	40659041	25.0	30.1	
2	9.283	9.285	-0.002	44522900	25.0	30.3	
						RPD = 0.53	
14 alpha-Chlordane							
1	7.684	7.682	0.002	40349662	25.0	30.2	
2	9.583	9.583	0.000	42817891	25.0	30.1	
						RPD = 0.07	
15 Endosulfan I							
1	7.957	7.957	0.000	37872609	25.0	30.9	
2	9.652	9.651	0.001	41186551	25.0	31.2	
						RPD = 1.00	
16 4,4'-DDE							
1	8.061	8.056	0.005	35018063	25.0	29.6	
2	10.012	10.009	0.003	39402857	25.0	29.8	
						RPD = 0.95	
17 Dieldrin							
1	8.510	8.508	0.002	40727505	25.0	31.1	
2	10.167	10.167	0.000	43001406	25.0	31.4	
						RPD = 0.91	
18 Endrin							
1	8.963	8.962	0.001	35593849	25.0	30.9	
2	10.680	10.680	0.000	35384546	25.0	29.4	
						RPD = 5.19	
20 4,4'-DDD							
1	9.328	9.322	0.006	26177891	25.0	30.1	
2	11.006	11.004	0.002	27769772	25.0	28.4	
						RPD = 5.81	
21 Endosulfan II							
1	9.413	9.411	0.002	38674276	25.0	33.4	
2	11.049	11.050	-0.001	40976611	25.0	35.0	
						RPD = 4.70	
23 4,4'-DDT							
1	9.841	9.838	0.003	20759335	25.0	21.7	
2	11.486	11.487	-0.001	20412143	25.0	20.5	
						RPD = 6.07	
25 Endrin aldehyde							
1	10.209	10.206	0.003	25359584	25.0	28.5	
2	11.608	11.609	-0.001	26382218	25.0	28.3	
						RPD = 0.76	
27 Methoxychlor							
1	10.795	10.789	0.006	11120080	25.0	24.3	
2	12.554	12.553	0.001	10684134	25.0	21.8	
						RPD = 10.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	30337694	25.0	30.5	
2	12.030	12.030	0.000	31028811	25.0	29.3	
						RPD = 3.87	
29 Endrin ketone							
1	11.333	11.333	0.000	36280683	25.0	29.7	
2	12.773	12.773	0.000	35670381	25.0	29.1	
						RPD = 2.18	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	26757968	25.0	28.6	
2	14.491	14.493	-0.002	28482455	25.0	28.0	
						RPD = 2.10	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

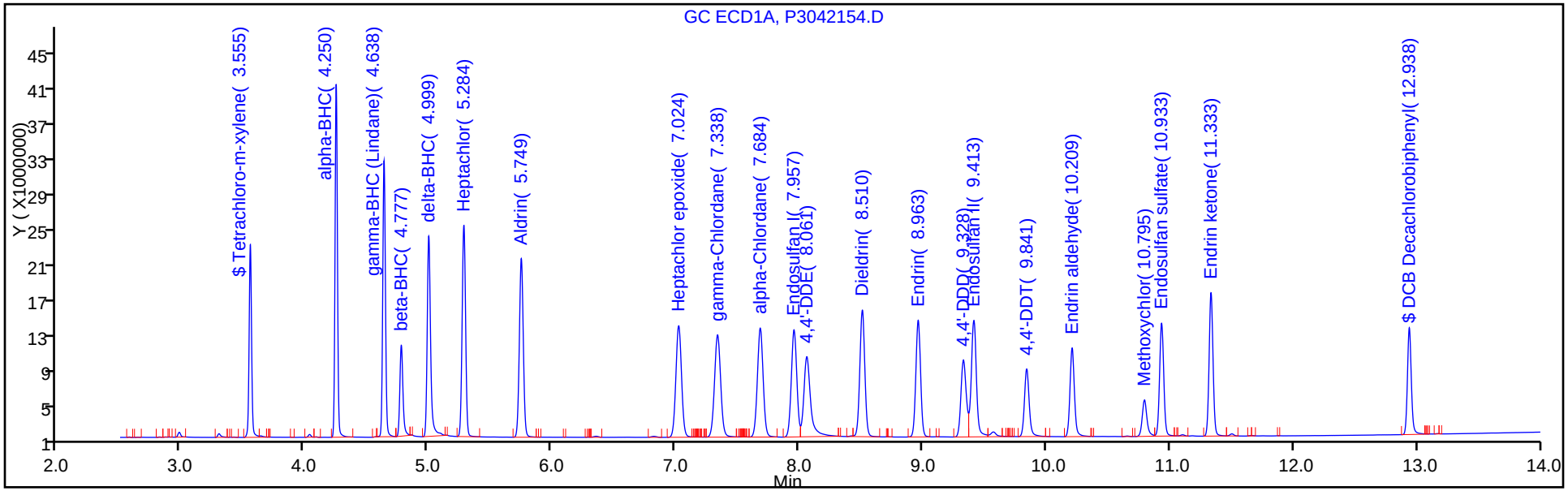
Report Date: 22-Apr-2015 10:28:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

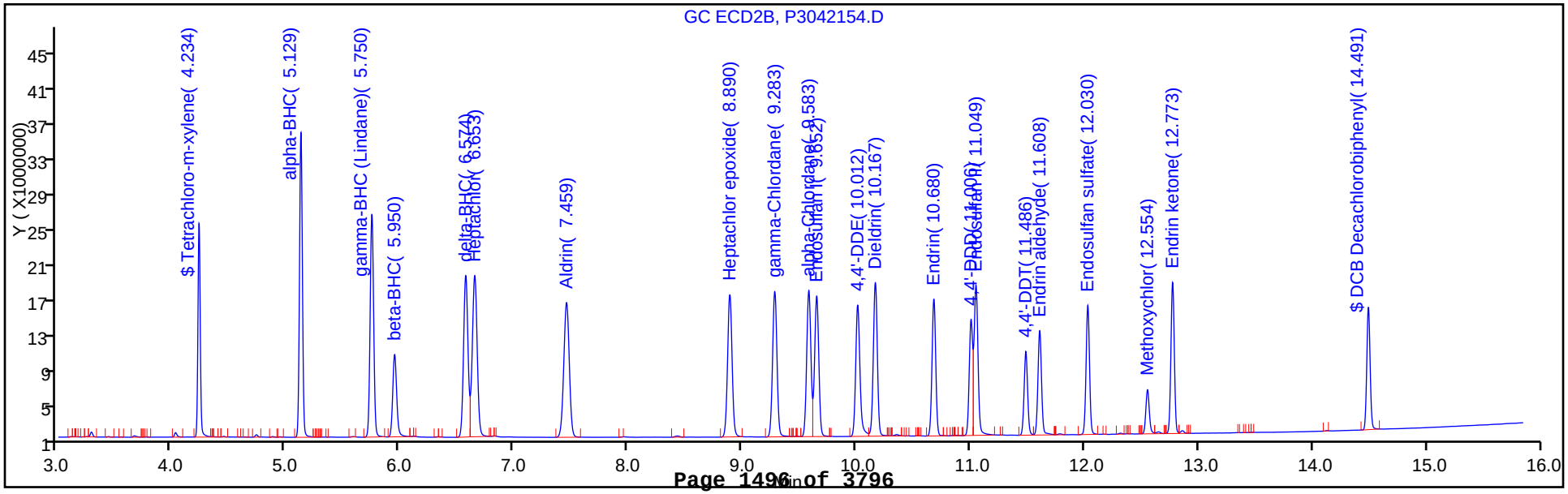
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042154.D

Injection Date:	22-Apr-2015 09:08:56	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	54
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/54 Calibration Date: 04/22/2015 09:08

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042154.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2468027		31.5	25.0	26.1*	20.0
gamma-BHC (Lindane)	Ave	1769514	2184498		30.9	25.0	23.5*	20.0
beta-BHC	Ave	768367	910397		29.6	25.0	18.5	20.0
delta-BHC	Ave	1774158	1996851		28.1	25.0	12.6	20.0
Heptachlor	Ave	1690527	2195277		32.5	25.0	29.9*	20.0
Aldrin	Ave	1672196	2059502		30.8	25.0	23.2*	20.0
Heptachlor epoxide	Ave	1435426	1787179		31.1	25.0	24.5*	20.0
gamma-Chlordane	Ave	1471152	1780916		30.3	25.0	21.1*	20.0
alpha-Chlordane	Ave	1420369	1712716		30.1	25.0	20.6*	20.0
Endosulfan I	Ave	1321597	1647462		31.2	25.0	24.7*	20.0
4,4'-DDE	Ave	1320422	1576114		29.8	25.0	19.4	20.0
Dieldrin	Ave	1368089	1720056		31.4	25.0	25.7*	20.0
Endrin	Ave	1205577	1415382		29.4	25.0	17.4	20.0
4,4'-DDD	Ave	978644	1110791		28.4	25.0	13.5	20.0
Endosulfan II	Ave	1169425	1639064		35.0	25.0	40.2*	20.0
4,4'-DDT	Ave	997996	816486		20.5	25.0	-18.2	20.0
Endrin aldehyde	Ave	933862	1055289		28.3	25.0	13.0	20.0
Endosulfan sulfate	Ave	1059131	1241152		29.3	25.0	17.2	20.0
Methoxychlor	Ave	489196	427365		21.8	25.0	-12.6	20.0
Endrin ketone	Ave	1227876	1426815		29.1	25.0	16.2	20.0
Tetrachloro-m-xylene	Ave	1127022	1395157		30.9	25.0	23.8*	20.0
DCB Decachlorobiphenyl	Ave	1017987	1139298		28.0	25.0	11.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177258/54 Calibration Date: 04/22/2015 09:08

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042154.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.28	9.26	9.32
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.97	11.03
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.55	12.52	12.58
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.23	4.21	4.27
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042154.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 09:08:56 ALS Bottle#: 54 Worklist Smp#: 54
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-054
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 10:28:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.554	0.001	30643139	25.0	31.2	
2	4.234	4.235	-0.001	34878923	25.0	30.9	
						RPD = 0.67	
4 alpha-BHC							
1	4.250	4.250	0.000	55004272	25.0	31.8	
2	5.129	5.128	0.001	61700664	25.0	31.5	
						RPD = 0.76	
5 gamma-BHC (Lindane)							
1	4.638	4.637	0.001	47909961	25.0	31.0	
2	5.750	5.751	-0.001	54612452	25.0	30.9	
						RPD = 0.56	
6 beta-BHC							
1	4.777	4.775	0.002	18207627	25.0	28.9	
2	5.950	5.950	0.000	22759920	25.0	29.6	
						RPD = 2.44	
7 delta-BHC							
1	4.999	4.998	0.001	43794483	25.0	29.1	
2	6.574	6.573	0.001	49921277	25.0	28.1	
						RPD = 3.50	
9 Heptachlor							
1	5.284	5.283	0.001	47039107	25.0	32.2	
2	6.653	6.653	0.000	54881914	25.0	32.5	
						RPD = 0.71	
10 Aldrin							
1	5.749	5.748	0.001	45388039	25.0	31.0	
2	7.459	7.458	0.001	51487560	25.0	30.8	
						RPD = 0.83	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.024	7.021	0.003	40578929	25.0	31.1	
2	8.890	8.889	0.001	44679477	25.0	31.1	
						RPD = 0.01	
13 gamma-Chlordane							
1	7.338	7.337	0.001	40659041	25.0	30.1	
2	9.283	9.285	-0.002	44522900	25.0	30.3	
						RPD = 0.53	
14 alpha-Chlordane							
1	7.684	7.682	0.002	40349662	25.0	30.2	
2	9.583	9.583	0.000	42817891	25.0	30.1	
						RPD = 0.07	
15 Endosulfan I							
1	7.957	7.957	0.000	37872609	25.0	30.9	
2	9.652	9.651	0.001	41186551	25.0	31.2	
						RPD = 1.00	
16 4,4'-DDE							
1	8.061	8.056	0.005	35018063	25.0	29.6	
2	10.012	10.009	0.003	39402857	25.0	29.8	
						RPD = 0.95	
17 Dieldrin							
1	8.510	8.508	0.002	40727505	25.0	31.1	
2	10.167	10.167	0.000	43001406	25.0	31.4	
						RPD = 0.91	
18 Endrin							
1	8.963	8.962	0.001	35593849	25.0	30.9	
2	10.680	10.680	0.000	35384546	25.0	29.4	
						RPD = 5.19	
20 4,4'-DDD							
1	9.328	9.322	0.006	26177891	25.0	30.1	
2	11.006	11.004	0.002	27769772	25.0	28.4	
						RPD = 5.81	
21 Endosulfan II							
1	9.413	9.411	0.002	38674276	25.0	33.4	
2	11.049	11.050	-0.001	40976611	25.0	35.0	
						RPD = 4.70	
23 4,4'-DDT							
1	9.841	9.838	0.003	20759335	25.0	21.7	
2	11.486	11.487	-0.001	20412143	25.0	20.5	
						RPD = 6.07	
25 Endrin aldehyde							
1	10.209	10.206	0.003	25359584	25.0	28.5	
2	11.608	11.609	-0.001	26382218	25.0	28.3	
						RPD = 0.76	
27 Methoxychlor							
1	10.795	10.789	0.006	11120080	25.0	24.3	
2	12.554	12.553	0.001	10684134	25.0	21.8	
						RPD = 10.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	30337694	25.0	30.5	
2	12.030	12.030	0.000	31028811	25.0	29.3	
						RPD = 3.87	
29 Endrin ketone							
1	11.333	11.333	0.000	36280683	25.0	29.7	
2	12.773	12.773	0.000	35670381	25.0	29.1	
						RPD = 2.18	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	26757968	25.0	28.6	
2	14.491	14.493	-0.002	28482455	25.0	28.0	
						RPD = 2.10	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

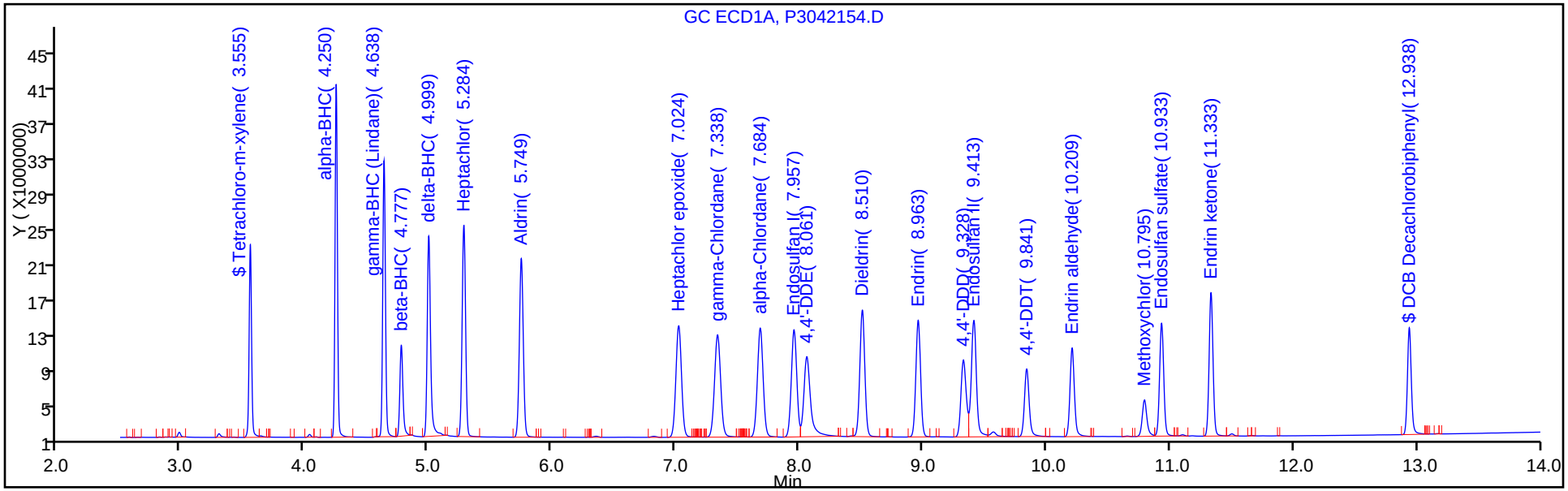
Report Date: 22-Apr-2015 10:28:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

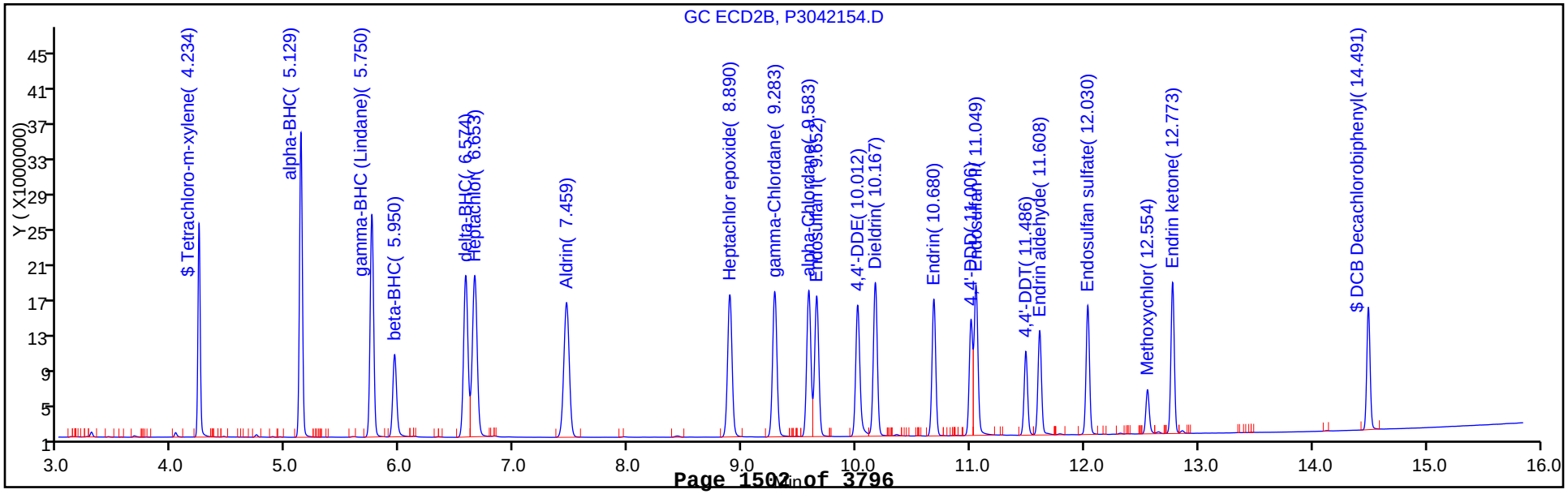
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042154.D

Injection Date:	22-Apr-2015 09:08:56	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	54
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	54
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/6 Calibration Date: 04/27/2015 12:40

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042706.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	38265		1010	1000	1.1	20.0
Toxaphene Peak 2	Ave	36644	38228		1040	1000	4.3	20.0
Toxaphene Peak 3	Ave	23355	24200		1040	1000	3.6	20.0
Toxaphene Peak 4	Ave	33176	34646		1040	1000	4.4	20.0
Toxaphene Peak 5	Ave	32330	32035		991	1000	-0.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/6 Calibration Date: 04/27/2015 12:40

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042706.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.61	9.58	9.64
Toxaphene Peak 2	10.07	10.04	10.10
Toxaphene Peak 3	10.38	10.35	10.41
Toxaphene Peak 4	10.72	10.69	10.75
Toxaphene Peak 5	10.83	10.80	10.86

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042706.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 27-Apr-2015 12:40:21 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-006
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:42 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 13:51:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.608	9.608	0.000	38265102	1000.0	1011.4	M
1	10.072	10.072	0.000	38227924	1000.0	1043.2	M
1	10.384	10.384	0.000	24199855	1000.0	1036.2	M
1	10.723	10.723	0.000	34646446	1000.0	1044.3	M
1	10.833	10.833	0.000	32034506	1000.0	990.8	M
		Average of Peak Amounts =				1025.2	
2	11.019	11.019	0.000	54623000	1000.0	1054.0	M
2	11.186	11.186	0.000	54989596	1000.0	1079.0	M
2	11.611	11.611	0.000	38478440	1000.0	1079.6	M
2	12.346	12.346	0.000	49594963	1000.0	1086.9	M
2	12.436	12.436	0.000	16594796	1000.0	1065.8	M
		Average of Peak Amounts =				1073.1	
						RPD = 4.56	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

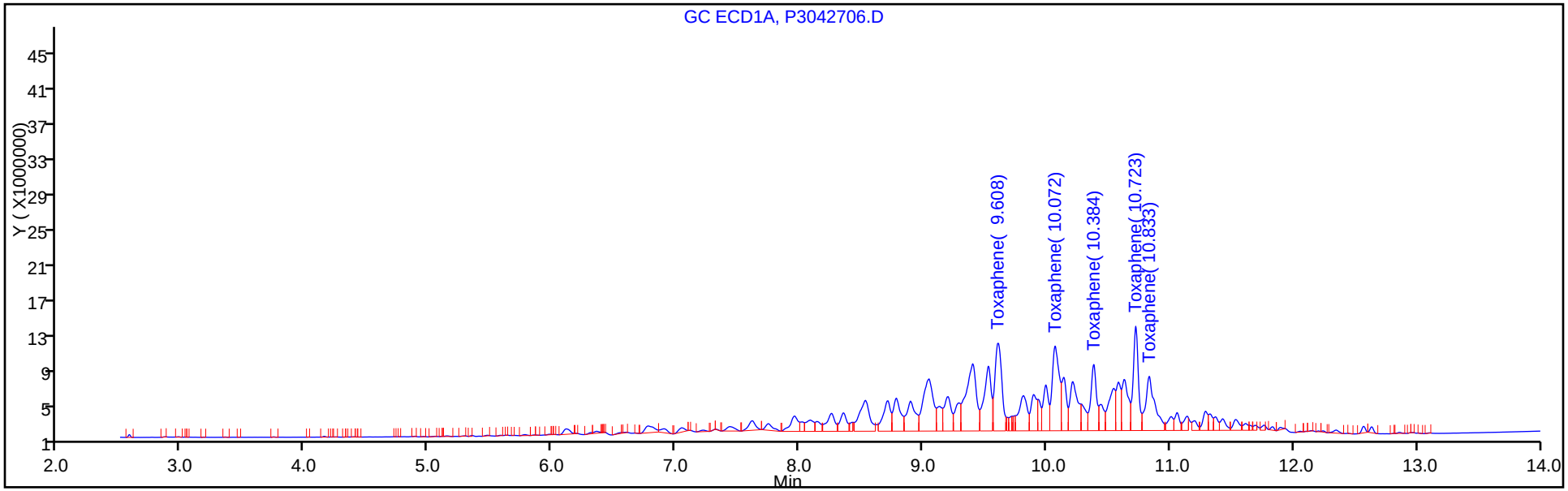
Report Date: 28-Apr-2015 08:11:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

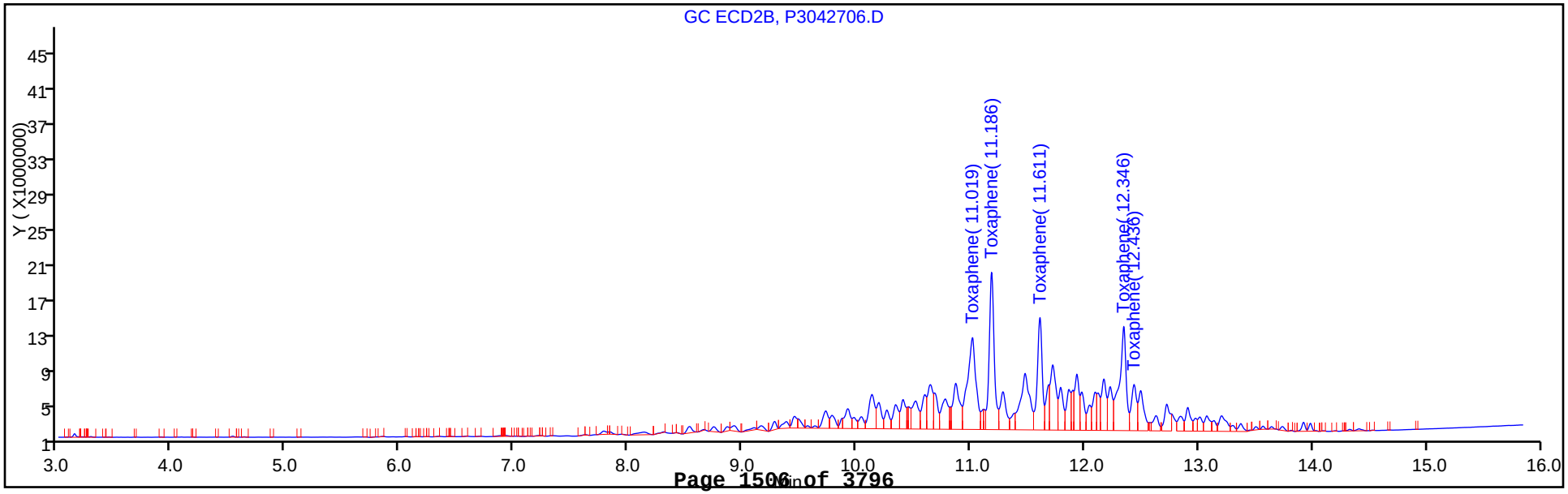
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042706.D

Injection Date:	27-Apr-2015 12:40:21	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042706.D

Injection Date: 27-Apr-2015 12:40:21 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

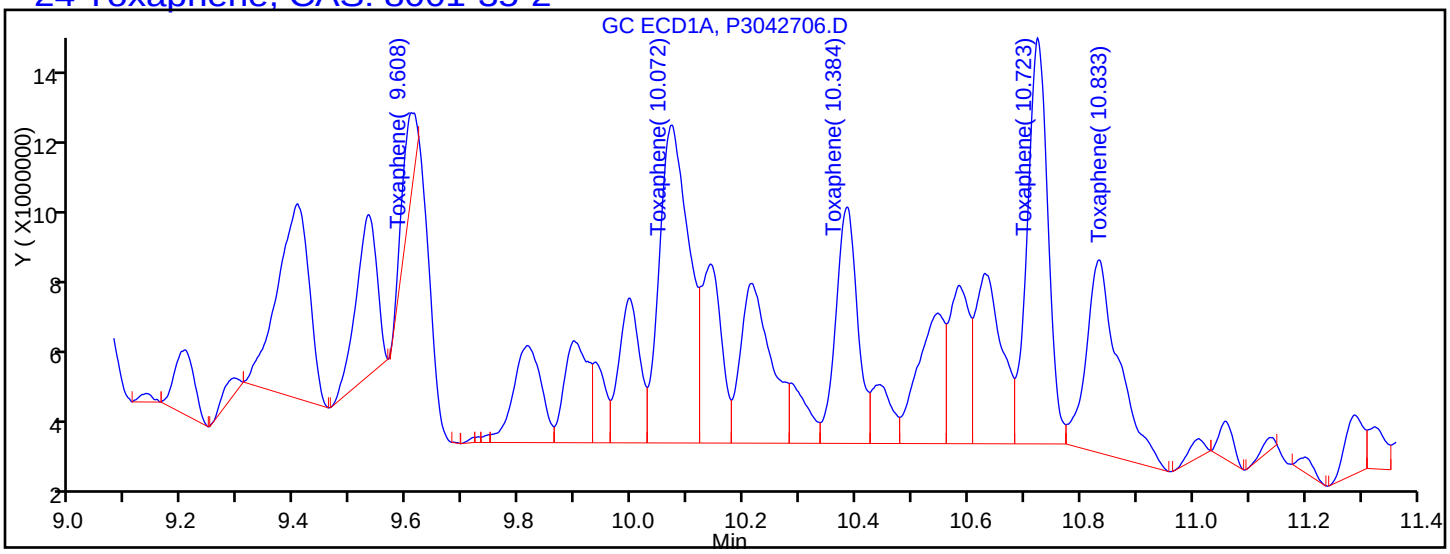
Operator ID: 430893 ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

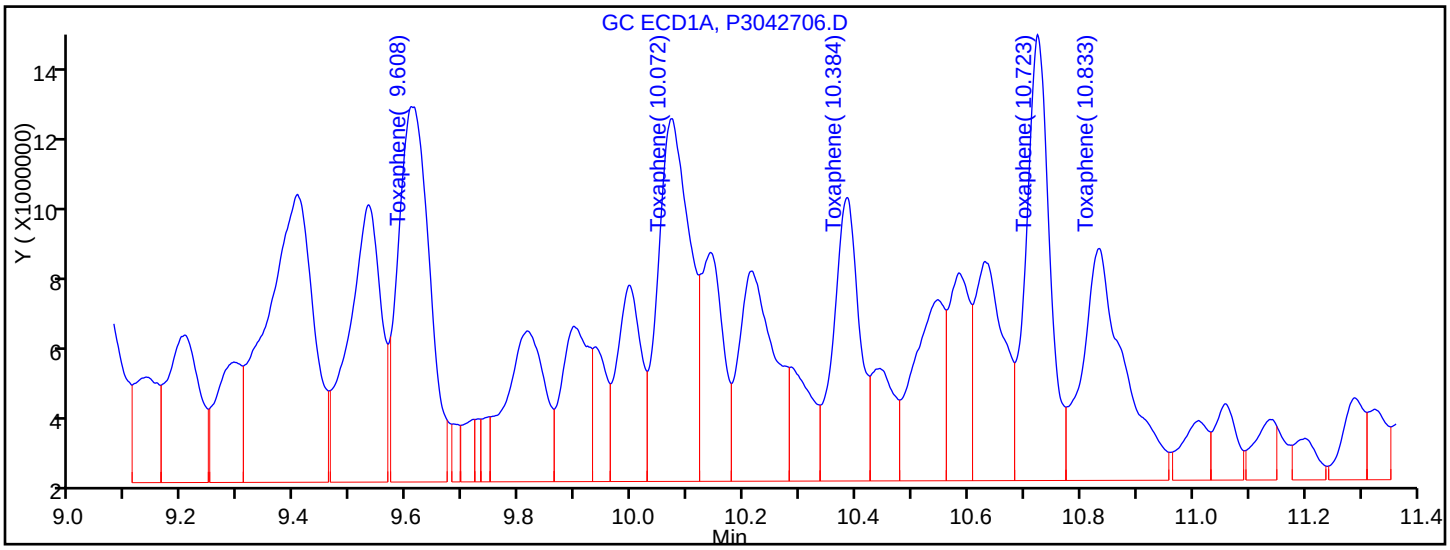
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.608	Response = 3990661	M
RT = 10.072	Response = 29848224	M
RT = 10.384	Response = 16311199	M
RT = 10.723	Response = 26673200	M
RT = 10.833	Response = 20035915	M



Manual Integration Results

RT = 9.608	Response = 38265102	M
RT = 10.072	Response = 38227924	M
RT = 10.384	Response = 24199855	M
RT = 10.723	Response = 34646446	M
RT = 10.833	Response = 32034506	M

Reviewer: matthewsb, 27-Apr-2015 13:51:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/6 Calibration Date: 04/27/2015 12:40

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042706.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	54623		1050	1000	5.4	20.0
Toxaphene Peak 2	Ave	50965	54990		1080	1000	7.9	20.0
Toxaphene Peak 3	Ave	35641	38478		1080	1000	8.0	20.0
Toxaphene Peak 4	Ave	45629	49595		1090	1000	8.7	20.0
Toxaphene Peak 5	Ave	15570	16595		1070	1000	6.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/6 Calibration Date: 04/27/2015 12:40

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042706.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.02	10.99	11.05
Toxaphene Peak 2	11.19	11.16	11.22
Toxaphene Peak 3	11.61	11.58	11.64
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.44	12.41	12.47

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042706.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 27-Apr-2015 12:40:21 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-006
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:42 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 13:51:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.608	9.608	0.000	38265102	1000.0	1011.4	M
1	10.072	10.072	0.000	38227924	1000.0	1043.2	M
1	10.384	10.384	0.000	24199855	1000.0	1036.2	M
1	10.723	10.723	0.000	34646446	1000.0	1044.3	M
1	10.833	10.833	0.000	32034506	1000.0	990.8	M
		Average of Peak Amounts =				1025.2	
2	11.019	11.019	0.000	54623000	1000.0	1054.0	M
2	11.186	11.186	0.000	54989596	1000.0	1079.0	M
2	11.611	11.611	0.000	38478440	1000.0	1079.6	M
2	12.346	12.346	0.000	49594963	1000.0	1086.9	M
2	12.436	12.436	0.000	16594796	1000.0	1065.8	M
		Average of Peak Amounts =				1073.1	
						RPD = 4.56	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

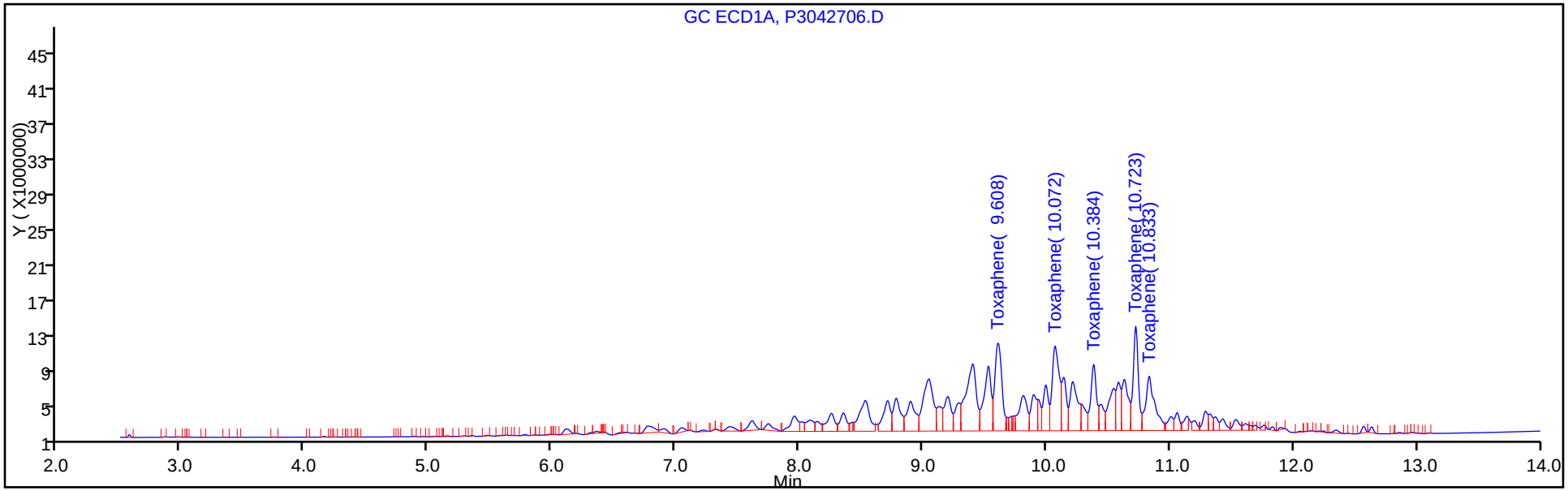
Report Date: 28-Apr-2015 08:11:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

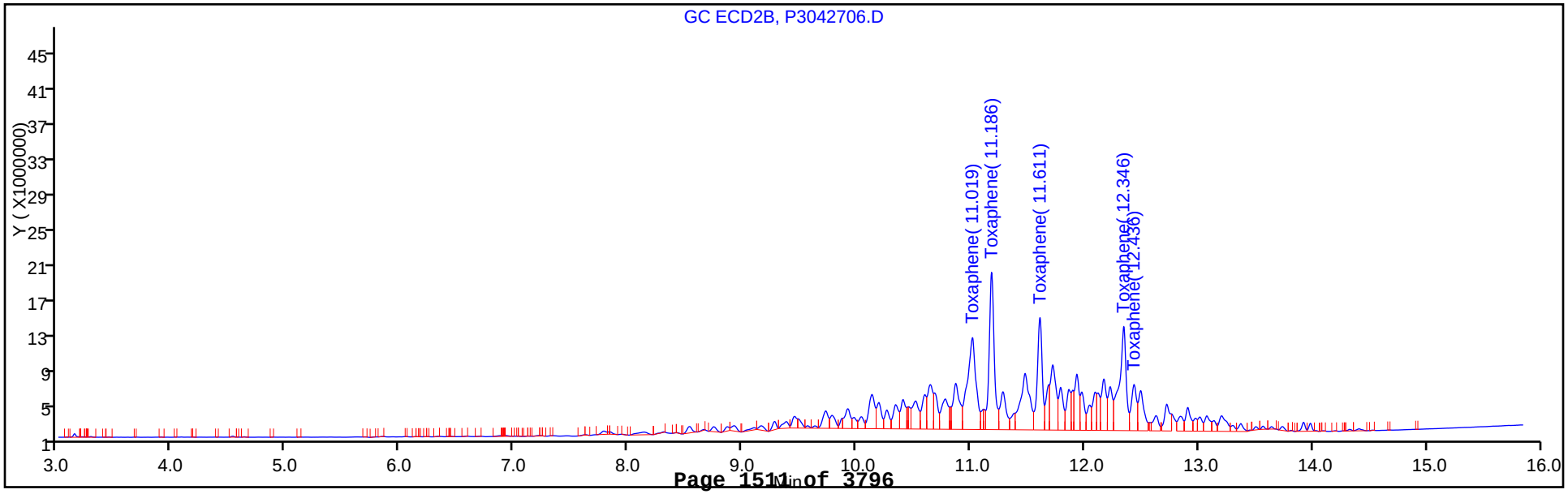
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042706.D

Injection Date:	27-Apr-2015 12:40:21	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042706.D

Injection Date: 27-Apr-2015 12:40:21 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

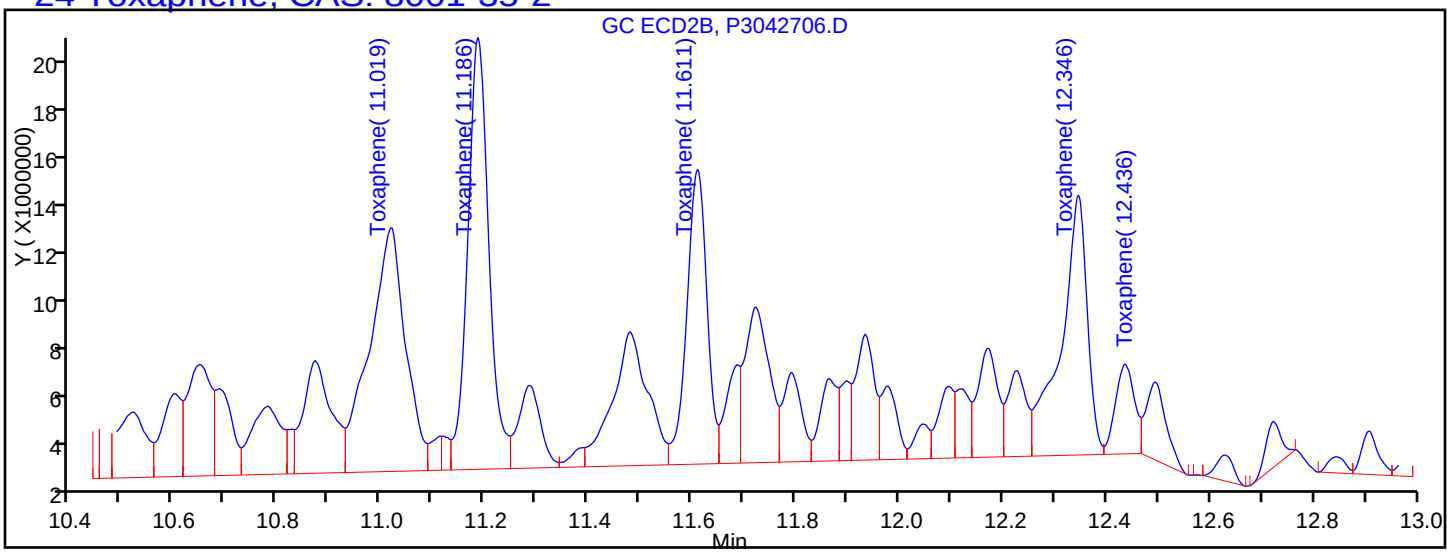
Operator ID: 430893 ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

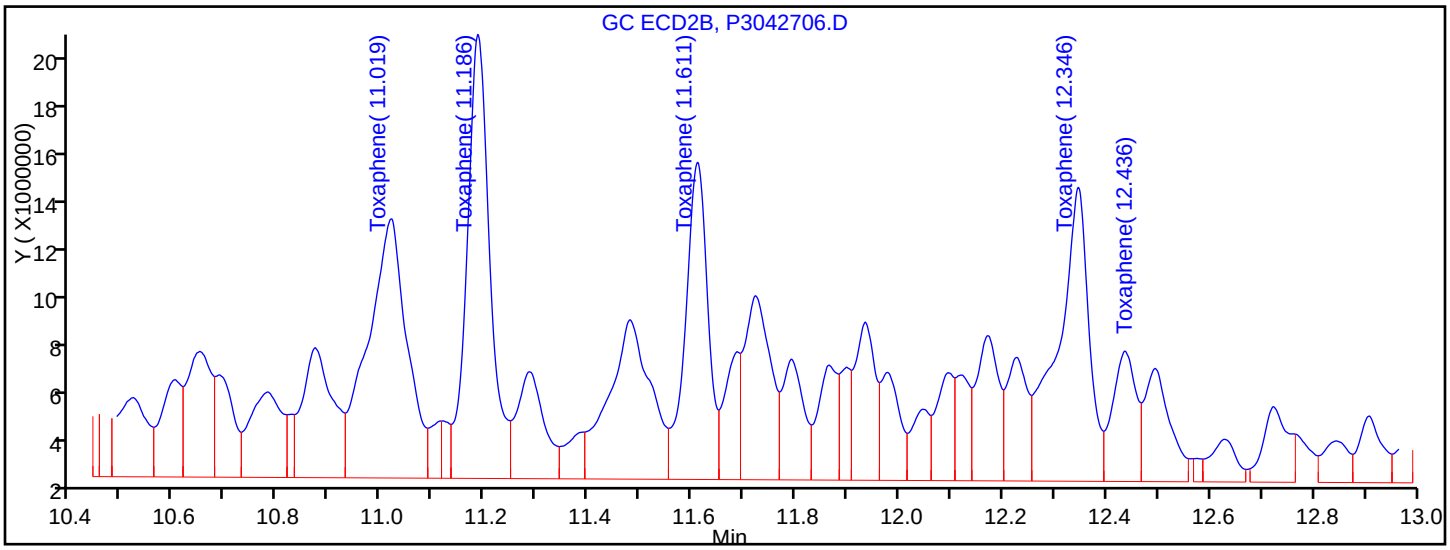
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.019	Response = 45931368	M
RT = 11.186	Response = 47980935	M
RT = 11.611	Response = 31140660	M
RT = 12.346	Response = 35621601	M
RT = 12.436	Response = 9048188	M



Manual Integration Results

RT = 11.019	Response = 54623000	M
RT = 11.186	Response = 54989596	M
RT = 11.611	Response = 38478440	M
RT = 12.346	Response = 49594963	M
RT = 12.436	Response = 16594796	M

Reviewer: matthewsb, 27-Apr-2015 13:51:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/7 Calibration Date: 04/27/2015 13:03

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042707.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	42787	47750		112	100	11.6	20.0
Chlordane (technical) Peak 2	Ave	49308	54282		110	100	10.1	20.0
Chlordane (technical) Peak 3	Ave	166809	183858		110	100	10.2	20.0
Chlordane (technical) Peak 4	Ave	260084	290358		112	100	11.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/7 Calibration Date: 04/27/2015 13:03

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042707.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.16	5.13	5.19
Chlordane (technical) Peak 2	6.05	6.02	6.08
Chlordane (technical) Peak 3	7.33	7.30	7.36
Chlordane (technical) Peak 4	7.67	7.64	7.70

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042707.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCVRT
Inject. Date: 27-Apr-2015 13:03:45 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-007
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:44 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 13:51:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.161	5.161	0.000	4774956	100.0	111.6	
1	6.047	6.047	0.000	5428163	100.0	110.1	
1	7.325	7.325	0.000	18385794	100.0	110.2	
1	7.669	7.669	0.000	29035756	100.0	111.6	
		Average of Peak Amounts =				110.9	
2	6.319	6.319	0.000	5625843	100.0	114.9	
2	7.942	7.942	0.000	6140364	100.0	106.0	
2	9.276	9.276	0.000	20271075	100.0	114.5	
2	9.574	9.574	0.000	18157826	100.0	114.8	
		Average of Peak Amounts =				112.6	
						RPD = 1.50	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

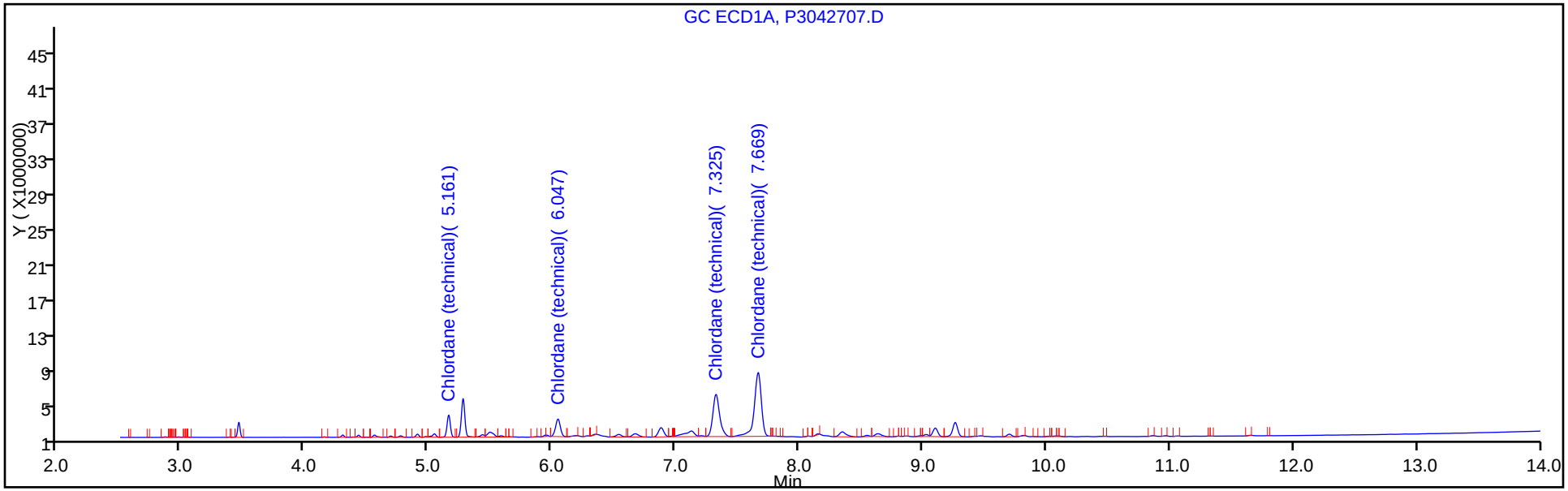
Report Date: 28-Apr-2015 08:11:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

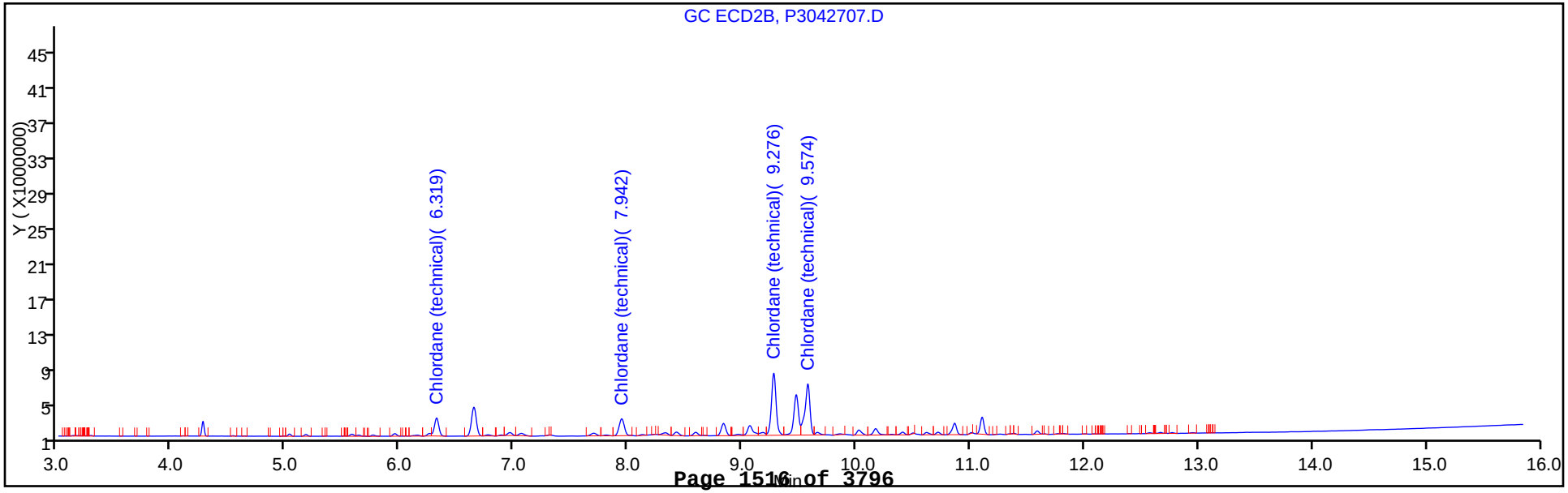
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042707.D

Injection Date:	27-Apr-2015 13:03:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/7 Calibration Date: 04/27/2015 13:03

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042707.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	48952	56258		115	100	14.9	20.0
Chlordane (technical) Peak 2	Ave	57903	61404		106	100	6.0	20.0
Chlordane (technical) Peak 3	Ave	177058	202711		114	100	14.5	20.0
Chlordane (technical) Peak 4	Ave	158165	181578		115	100	14.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/7 Calibration Date: 04/27/2015 13:03

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042707.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.32	6.29	6.35
Chlordane (technical) Peak 2	7.94	7.91	7.97
Chlordane (technical) Peak 3	9.28	9.25	9.31
Chlordane (technical) Peak 4	9.57	9.54	9.60

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042707.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCVRT
Inject. Date: 27-Apr-2015 13:03:45 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-007
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:44 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 13:51:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.161	5.161	0.000	4774956	100.0	111.6	
1	6.047	6.047	0.000	5428163	100.0	110.1	
1	7.325	7.325	0.000	18385794	100.0	110.2	
1	7.669	7.669	0.000	29035756	100.0	111.6	
		Average of Peak Amounts =				110.9	
2	6.319	6.319	0.000	5625843	100.0	114.9	
2	7.942	7.942	0.000	6140364	100.0	106.0	
2	9.276	9.276	0.000	20271075	100.0	114.5	
2	9.574	9.574	0.000	18157826	100.0	114.8	
		Average of Peak Amounts =				112.6	
						RPD = 1.50	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

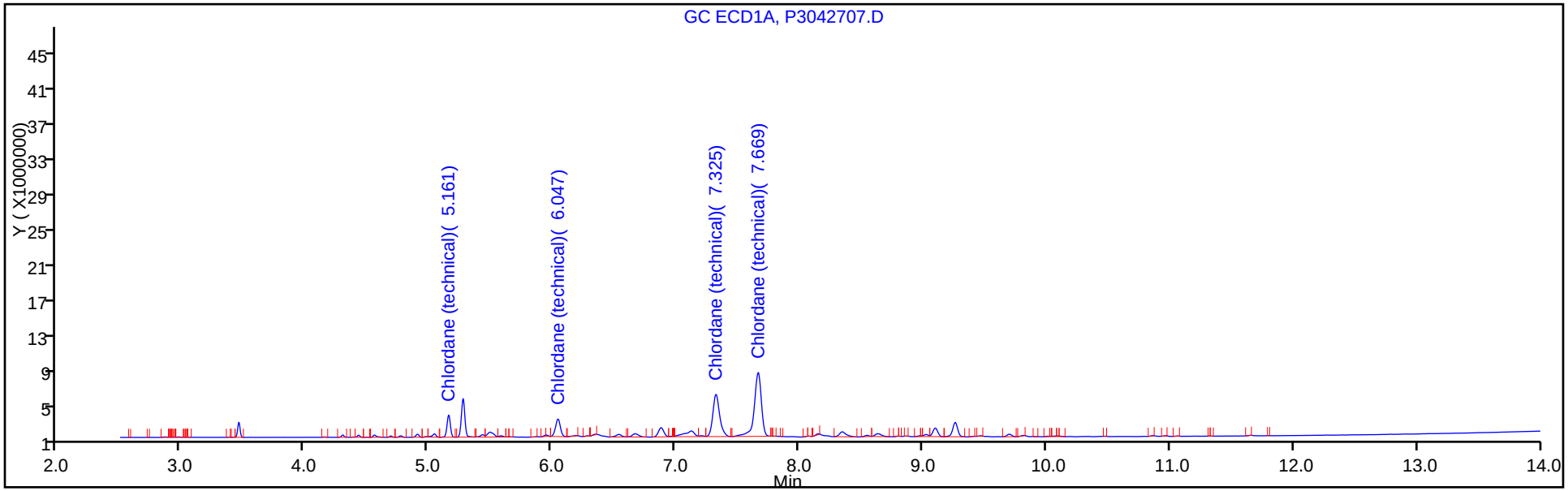
Report Date: 28-Apr-2015 08:11:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

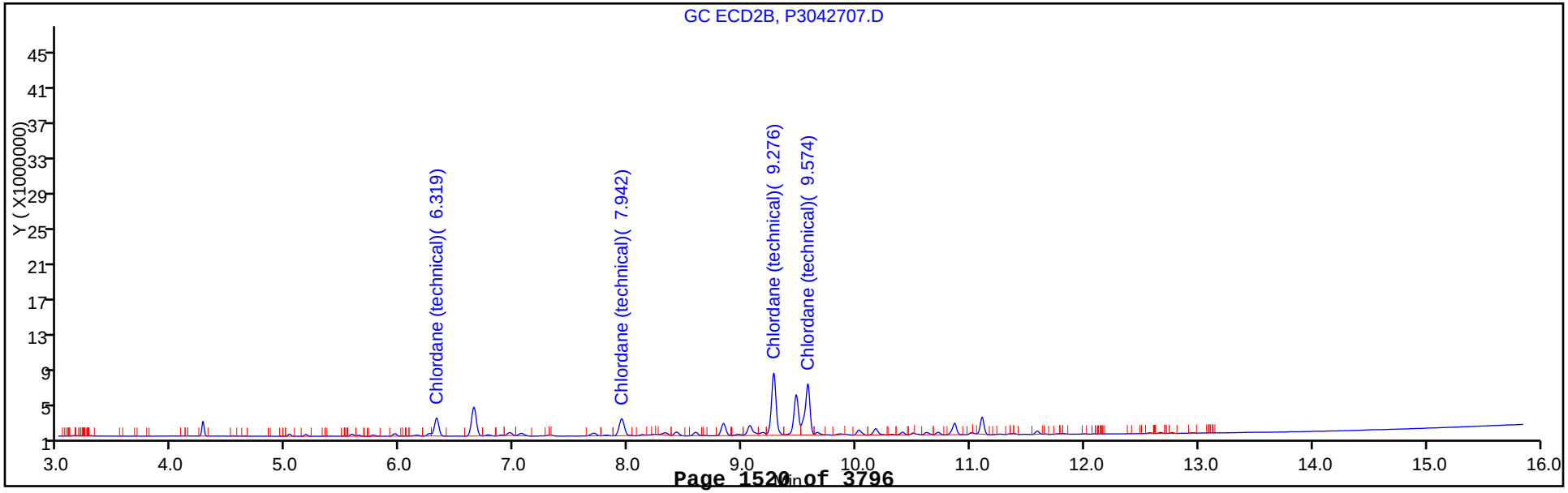
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042707.D

Injection Date:	27-Apr-2015 13:03:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/8 Calibration Date: 04/27/2015 13:27

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042708.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1953385		28.2	25.0	12.8	20.0
gamma-BHC (Lindane)	Ave	1543740	1726117		28.0	25.0	11.8	20.0
beta-BHC	Ave	629842	683513		27.1	25.0	8.5	20.0
delta-BHC	Ave	1502830	1666765		27.7	25.0	10.9	20.0
Heptachlor	Ave	1459223	1647716		28.2	25.0	12.9	20.0
Aldrin	Ave	1461888	1623313		27.8	25.0	11.0	20.0
Heptachlor epoxide	Ave	1303871	1451630		27.8	25.0	11.3	20.0
gamma-Chlordane	Ave	1350629	1465757		27.1	25.0	8.5	20.0
alpha-Chlordane	Ave	1337609	1460699		27.3	25.0	9.2	20.0
Endosulfan I	Ave	1227519	1350949		27.5	25.0	10.1	20.0
4,4'-DDE	Ave	1184677	1259942		26.6	25.0	6.4	20.0
Dieldrin	Ave	1307595	1433657		27.4	25.0	9.6	20.0
Endrin	Ave	1151386	1199642		26.0	25.0	4.2	20.0
4,4'-DDD	Ave	870416	848892		24.4	25.0	-2.5	20.0
Endosulfan II	Ave	1156896	1320048		28.5	25.0	14.1	20.0
4,4'-DDT	Ave	955198	1036871		27.1	25.0	8.6	20.0
Endrin aldehyde	Ave	890839	910423		25.5	25.0	2.2	20.0
Methoxychlor	Ave	458228	500325		27.3	25.0	9.2	20.0
Endosulfan sulfate	Ave	996194	1083004		27.2	25.0	8.7	20.0
Endrin ketone	Ave	1221980	1322124		27.0	25.0	8.2	20.0
Tetrachloro-m-xylene	Ave	983528	1092935		27.8	25.0	11.1	20.0
DCB Decachlorobiphenyl	Ave	936456	944024		25.2	25.0	0.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/8 Calibration Date: 04/27/2015 13:27

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042708.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.63	4.60	4.66
beta-BHC	4.77	4.74	4.80
delta-BHC	4.99	4.96	5.02
Heptachlor	5.28	5.25	5.31
Aldrin	5.74	5.71	5.77
Heptachlor epoxide	7.01	6.98	7.04
gamma-Chlordane	7.32	7.29	7.35
alpha-Chlordane	7.67	7.64	7.70
Endosulfan I	7.94	7.91	7.97
4,4'-DDE	8.05	8.02	8.08
Dieldrin	8.50	8.47	8.53
Endrin	8.96	8.93	8.99
4,4'-DDD	9.32	9.29	9.35
Endosulfan II	9.40	9.37	9.43
4,4'-DDT	9.83	9.80	9.86
Endrin aldehyde	10.20	10.17	10.23
Methoxychlor	10.79	10.76	10.82
Endosulfan sulfate	10.92	10.89	10.95
Endrin ketone	11.32	11.29	11.35
Tetrachloro-m-xylene	3.55	3.52	3.58
DCB Decachlorobiphenyl	12.93	12.90	12.96

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042708.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 27-Apr-2015 13:27:09 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.550	0.000	27323379	25.0	27.8	
2	4.231	4.231	0.000	30688729	25.0	27.2	
						RPD = 2.00	
4 alpha-BHC							
1	4.246	4.246	0.000	48834627	25.0	28.2	
2	5.123	5.123	0.000	54610363	25.0	27.9	
						RPD = 1.07	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	43152931	25.0	28.0	
2	5.744	5.744	0.000	49076140	25.0	27.7	
						RPD = 0.79	
6 beta-BHC							
1	4.770	4.770	0.000	17087837	25.0	27.1	
2	5.942	5.942	0.000	20944760	25.0	27.3	
						RPD = 0.47	
7 delta-BHC							
1	4.992	4.992	0.000	41669125	25.0	27.7	
2	6.564	6.564	0.000	46644026	25.0	26.3	
						RPD = 5.32	
9 Heptachlor							
1	5.276	5.276	0.000	41192908	25.0	28.2	
2	6.645	6.645	0.000	47100869	25.0	27.9	
						RPD = 1.31	
10 Aldrin							
1	5.740	5.740	0.000	40582822	25.0	27.8	
2	7.448	7.448	0.000	46031582	25.0	27.5	
						RPD = 0.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.013	7.013	0.000	36290745	25.0	27.8	
2	8.882	8.882	0.000	40000234	25.0	27.9	
						RPD = 0.12	
13 gamma-Chlordane							
1	7.324	7.324	0.000	36643922	25.0	27.1	
2	9.276	9.276	0.000	40398308	25.0	27.5	
						RPD = 1.21	
14 alpha-Chlordane							
1	7.671	7.671	0.000	36517466	25.0	27.3	
2	9.575	9.575	0.000	39417299	25.0	27.8	
						RPD = 1.64	
15 Endosulfan I							
1	7.944	7.944	0.000	33773730	25.0	27.5	
2	9.645	9.645	0.000	36429253	25.0	27.6	
						RPD = 0.18	
16 4,4'-DDE							
1	8.047	8.047	0.000	31498560	25.0	26.6	
2	10.002	10.002	0.000	35032007	25.0	26.5	
						RPD = 0.22	
17 Dieldrin							
1	8.501	8.501	0.000	35841436	25.0	27.4	
2	10.158	10.158	0.000	37776255	25.0	27.6	
						RPD = 0.74	
18 Endrin							
1	8.955	8.955	0.000	29991039	25.0	26.0	
2	10.672	10.672	0.000	30056214	25.0	24.9	
						RPD = 4.38	
20 4,4'-DDD							
1	9.318	9.318	0.000	21222292	25.0	24.4	
2	10.995	10.995	0.000	24625535	25.0	25.2	
						RPD = 3.15	
21 Endosulfan II							
1	9.402	9.402	0.000	33001198	25.0	28.5	
2	11.041	11.041	0.000	33057300	25.0	28.3	
						RPD = 0.91	
23 4,4'-DDT							
1	9.831	9.831	0.000	25921778	25.0	27.1	
2	11.479	11.479	0.000	26014021	25.0	26.1	
						RPD = 4.03	
25 Endrin aldehyde							
1	10.199	10.199	0.000	22760577	25.0	25.5	
2	11.600	11.600	0.000	24056009	25.0	25.8	
						RPD = 0.82	
27 Methoxychlor							
1	10.785	10.785	0.000	12508117	25.0	27.3	
2	12.546	12.546	0.000	12890691	25.0	26.4	
						RPD = 3.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.924	10.924	0.000	27075099	25.0	27.2	
2	12.023	12.023	0.000	28314471	25.0	26.7	
						RPD = 1.65	
29 Endrin ketone							
1	11.323	11.323	0.000	33053096	25.0	27.0	
2	12.766	12.766	0.000	33470377	25.0	27.3	
						RPD = 0.77	
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	23600609	25.0	25.2	
2	14.484	14.484	0.000	25613995	25.0	25.2	
						RPD = 0.16	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

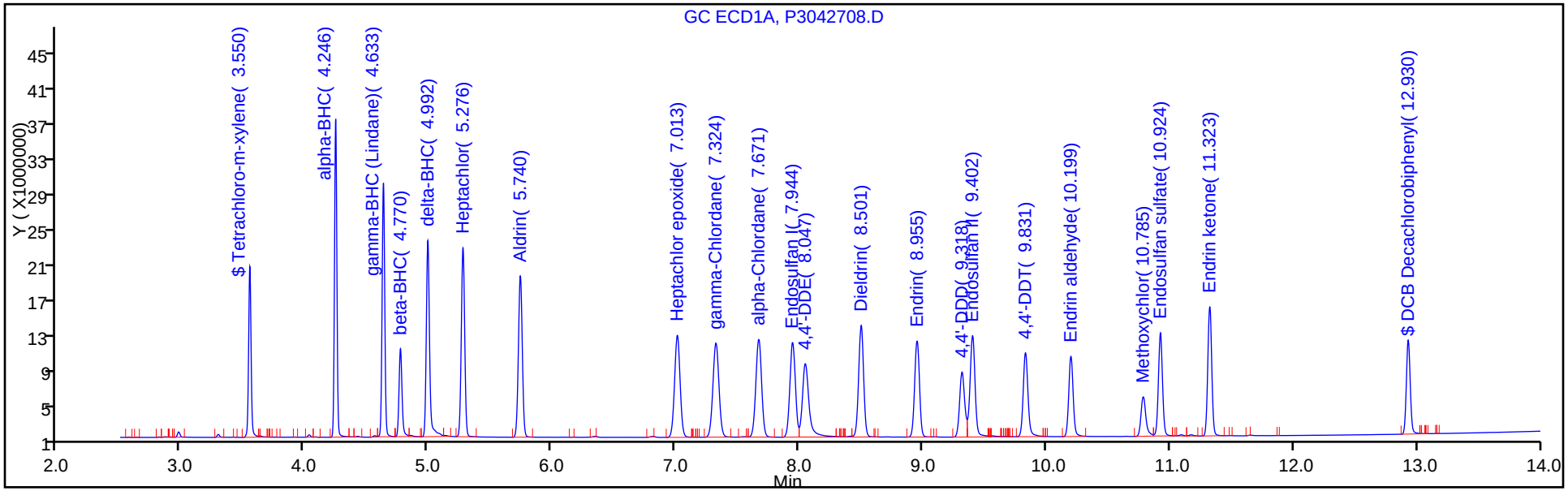
Report Date: 28-Apr-2015 08:11:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

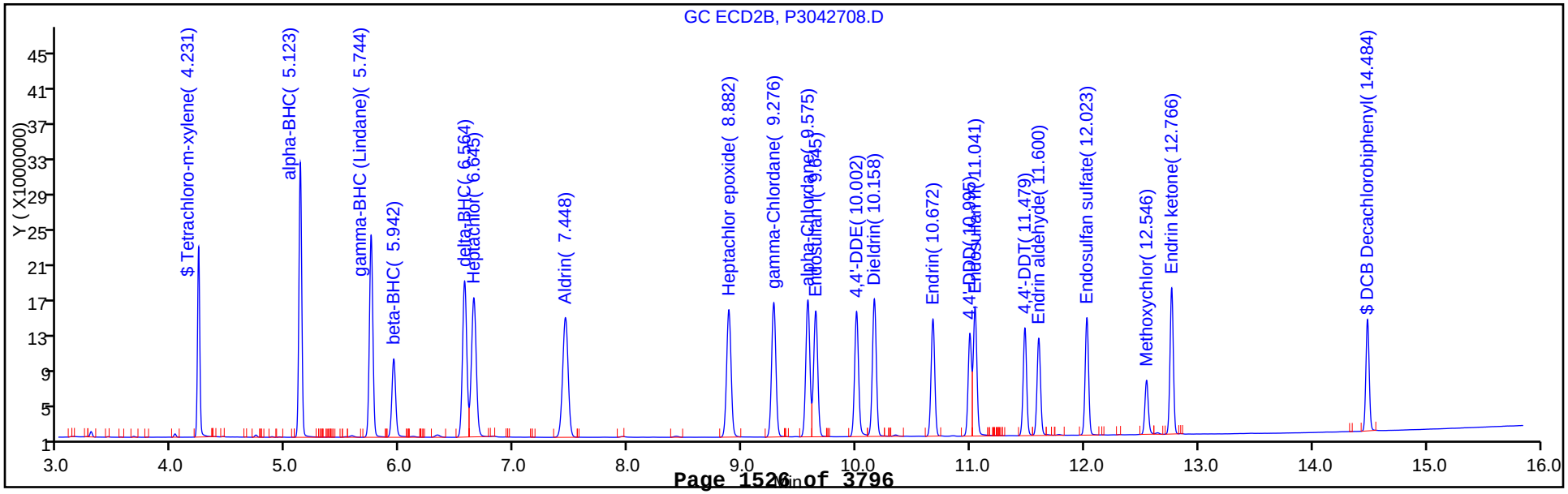
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042708.D

Injection Date:	27-Apr-2015 13:27:09	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/8 Calibration Date: 04/27/2015 13:27

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042708.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2184415		27.9	25.0	11.6	20.0
gamma-BHC (Lindane)	Ave	1769514	1963046		27.7	25.0	10.9	20.0
beta-BHC	Ave	768367	837790		27.3	25.0	9.0	20.0
delta-BHC	Ave	1774158	1865761		26.3	25.0	5.2	20.0
Heptachlor	Ave	1690527	1884035		27.9	25.0	11.4	20.0
Aldrin	Ave	1672196	1841263		27.5	25.0	10.1	20.0
Heptachlor epoxide	Ave	1435426	1600009		27.9	25.0	11.5	20.0
gamma-Chlordane	Ave	1471152	1615932		27.5	25.0	9.8	20.0
alpha-Chlordane	Ave	1420369	1576692		27.8	25.0	11.0	20.0
Endosulfan I	Ave	1321597	1457170		27.6	25.0	10.3	20.0
4,4'-DDE	Ave	1320422	1401280		26.5	25.0	6.1	20.0
Dieldrin	Ave	1368089	1511050		27.6	25.0	10.4	20.0
Endrin	Ave	1205577	1202249		24.9	25.0	-0.3	20.0
4,4'-DDD	Ave	978644	985021		25.2	25.0	0.7	20.0
Endosulfan II	Ave	1169425	1322292		28.3	25.0	13.1	20.0
4,4'-DDT	Ave	997996	1040561		26.1	25.0	4.3	20.0
Endrin aldehyde	Ave	933862	962240		25.8	25.0	3.0	20.0
Endosulfan sulfate	Ave	1059131	1132579		26.7	25.0	6.9	20.0
Methoxychlor	Ave	489196	515628		26.4	25.0	5.4	20.0
Endrin ketone	Ave	1227876	1338815		27.3	25.0	9.0	20.0
Tetrachloro-m-xylene	Ave	1127022	1227549		27.2	25.0	8.9	20.0
DCB Decachlorobiphenyl	Ave	1017987	1024560		25.2	25.0	0.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/8 Calibration Date: 04/27/2015 13:27

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042708.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.12	5.09	5.15
gamma-BHC (Lindane)	5.74	5.71	5.77
beta-BHC	5.94	5.91	5.97
delta-BHC	6.56	6.53	6.59
Heptachlor	6.65	6.62	6.68
Aldrin	7.45	7.42	7.48
Heptachlor epoxide	8.88	8.85	8.91
gamma-Chlordane	9.28	9.25	9.31
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.00	9.97	10.03
Dieldrin	10.16	10.13	10.19
Endrin	10.67	10.64	10.70
4,4'-DDD	11.00	10.97	11.03
Endosulfan II	11.04	11.01	11.07
4,4'-DDT	11.48	11.45	11.51
Endrin aldehyde	11.60	11.57	11.63
Endosulfan sulfate	12.02	11.99	12.05
Methoxychlor	12.55	12.52	12.58
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.23	4.20	4.26
DCB Decachlorobiphenyl	14.48	14.45	14.51

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042708.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 27-Apr-2015 13:27:09 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.550	0.000	27323379	25.0	27.8	
2	4.231	4.231	0.000	30688729	25.0	27.2	
						RPD = 2.00	
4 alpha-BHC							
1	4.246	4.246	0.000	48834627	25.0	28.2	
2	5.123	5.123	0.000	54610363	25.0	27.9	
						RPD = 1.07	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	43152931	25.0	28.0	
2	5.744	5.744	0.000	49076140	25.0	27.7	
						RPD = 0.79	
6 beta-BHC							
1	4.770	4.770	0.000	17087837	25.0	27.1	
2	5.942	5.942	0.000	20944760	25.0	27.3	
						RPD = 0.47	
7 delta-BHC							
1	4.992	4.992	0.000	41669125	25.0	27.7	
2	6.564	6.564	0.000	46644026	25.0	26.3	
						RPD = 5.32	
9 Heptachlor							
1	5.276	5.276	0.000	41192908	25.0	28.2	
2	6.645	6.645	0.000	47100869	25.0	27.9	
						RPD = 1.31	
10 Aldrin							
1	5.740	5.740	0.000	40582822	25.0	27.8	
2	7.448	7.448	0.000	46031582	25.0	27.5	
						RPD = 0.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.013	7.013	0.000	36290745	25.0	27.8	
2	8.882	8.882	0.000	40000234	25.0	27.9	
						RPD = 0.12	
13 gamma-Chlordane							
1	7.324	7.324	0.000	36643922	25.0	27.1	
2	9.276	9.276	0.000	40398308	25.0	27.5	
						RPD = 1.21	
14 alpha-Chlordane							
1	7.671	7.671	0.000	36517466	25.0	27.3	
2	9.575	9.575	0.000	39417299	25.0	27.8	
						RPD = 1.64	
15 Endosulfan I							
1	7.944	7.944	0.000	33773730	25.0	27.5	
2	9.645	9.645	0.000	36429253	25.0	27.6	
						RPD = 0.18	
16 4,4'-DDE							
1	8.047	8.047	0.000	31498560	25.0	26.6	
2	10.002	10.002	0.000	35032007	25.0	26.5	
						RPD = 0.22	
17 Dieldrin							
1	8.501	8.501	0.000	35841436	25.0	27.4	
2	10.158	10.158	0.000	37776255	25.0	27.6	
						RPD = 0.74	
18 Endrin							
1	8.955	8.955	0.000	29991039	25.0	26.0	
2	10.672	10.672	0.000	30056214	25.0	24.9	
						RPD = 4.38	
20 4,4'-DDD							
1	9.318	9.318	0.000	21222292	25.0	24.4	
2	10.995	10.995	0.000	24625535	25.0	25.2	
						RPD = 3.15	
21 Endosulfan II							
1	9.402	9.402	0.000	33001198	25.0	28.5	
2	11.041	11.041	0.000	33057300	25.0	28.3	
						RPD = 0.91	
23 4,4'-DDT							
1	9.831	9.831	0.000	25921778	25.0	27.1	
2	11.479	11.479	0.000	26014021	25.0	26.1	
						RPD = 4.03	
25 Endrin aldehyde							
1	10.199	10.199	0.000	22760577	25.0	25.5	
2	11.600	11.600	0.000	24056009	25.0	25.8	
						RPD = 0.82	
27 Methoxychlor							
1	10.785	10.785	0.000	12508117	25.0	27.3	
2	12.546	12.546	0.000	12890691	25.0	26.4	
						RPD = 3.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.924	10.924	0.000	27075099	25.0	27.2	
2	12.023	12.023	0.000	28314471	25.0	26.7	
						RPD = 1.65	
29 Endrin ketone							
1	11.323	11.323	0.000	33053096	25.0	27.0	
2	12.766	12.766	0.000	33470377	25.0	27.3	
						RPD = 0.77	
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	23600609	25.0	25.2	
2	14.484	14.484	0.000	25613995	25.0	25.2	
						RPD = 0.16	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

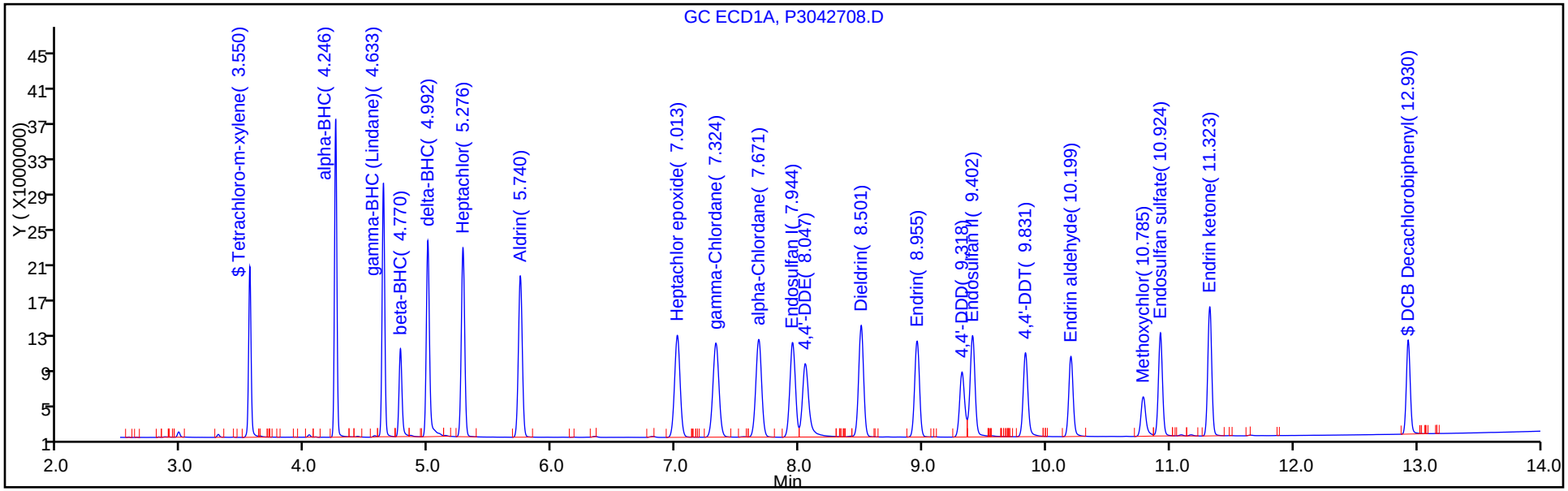
Report Date: 28-Apr-2015 08:11:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

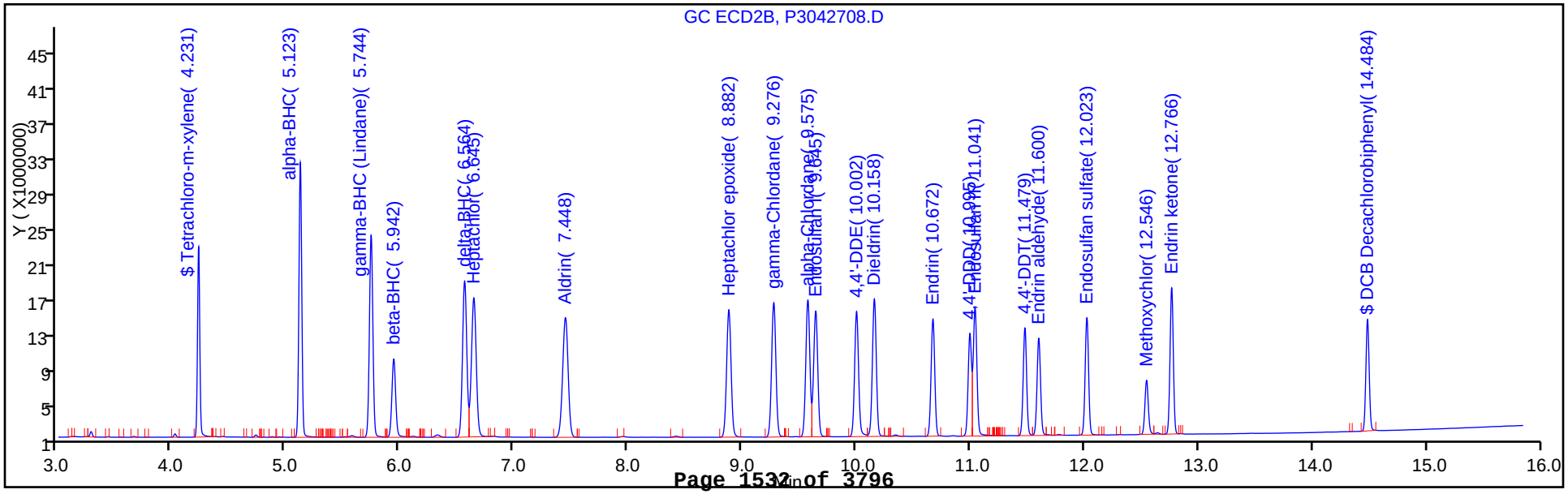
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042708.D

Injection Date:	27-Apr-2015 13:27:09	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/20 Calibration Date: 04/27/2015 18:13

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042720.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	44431		1170	1000	17.4	20.0
Toxaphene Peak 2	Ave	36644	40761		1110	1000	11.2	20.0
Toxaphene Peak 3	Ave	23355	26312		1130	1000	12.7	20.0
Toxaphene Peak 4	Ave	33176	36400		1100	1000	9.7	20.0
Toxaphene Peak 5	Ave	32330	33826		1050	1000	4.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/20 Calibration Date: 04/27/2015 18:13

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042720.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.61	9.58	9.64
Toxaphene Peak 2	10.07	10.04	10.10
Toxaphene Peak 3	10.38	10.35	10.41
Toxaphene Peak 4	10.72	10.69	10.75
Toxaphene Peak 5	10.83	10.80	10.86

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042720.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 27-Apr-2015 18:13:58 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-020
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:47:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.610	9.610	0.000	44430765	1000.0	1174.4	M
1	10.074	10.074	0.000	40761058	1000.0	1112.3	M
1	10.384	10.384	0.000	26311901	1000.0	1126.6	M
1	10.724	10.724	0.000	36400402	1000.0	1097.2	M
1	10.834	10.834	0.000	33825806	1000.0	1046.3	M
		Average of Peak Amounts =				1111.4	
2	11.018	11.018	0.000	58116021	1000.0	1121.4	
2	11.187	11.187	0.000	57630695	1000.0	1130.8	
2	11.611	11.611	0.000	38685045	1000.0	1085.4	
2	12.345	12.345	0.000	45475543	1000.0	996.6	
2	12.434	12.434	0.000	15230622	1000.0	978.2	
		Average of Peak Amounts =				1062.5	
						RPD = 4.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

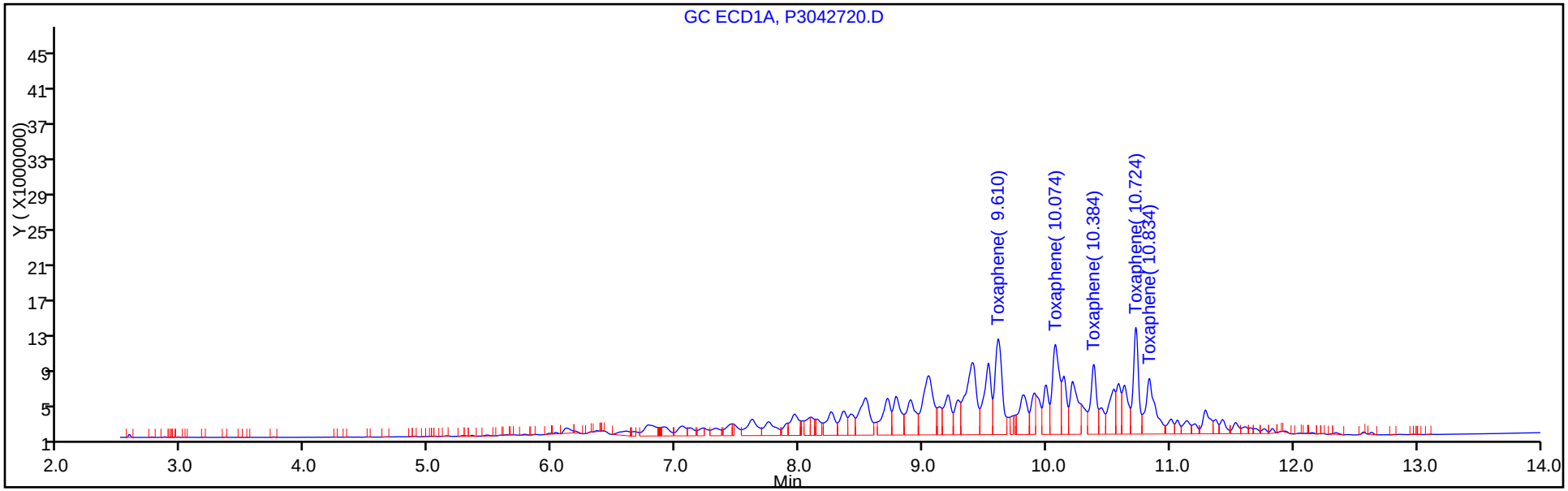
Report Date: 28-Apr-2015 08:11:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

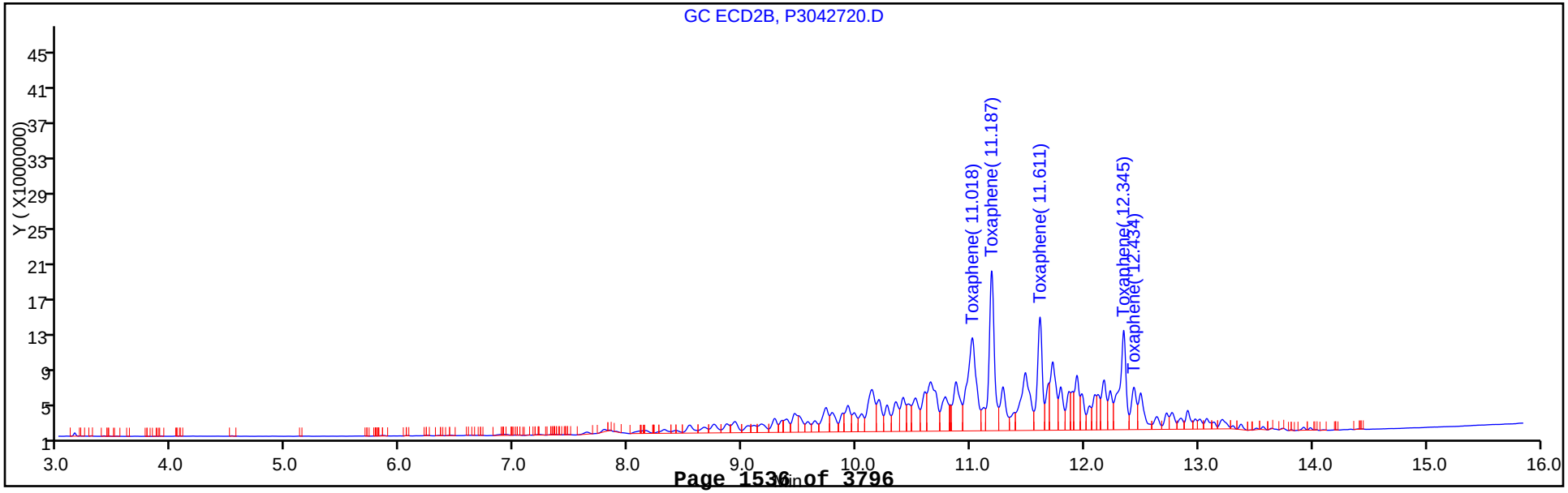
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042720.D

Injection Date:	27-Apr-2015 18:13:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:12:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042720.D

Injection Date: 27-Apr-2015 18:13:58 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

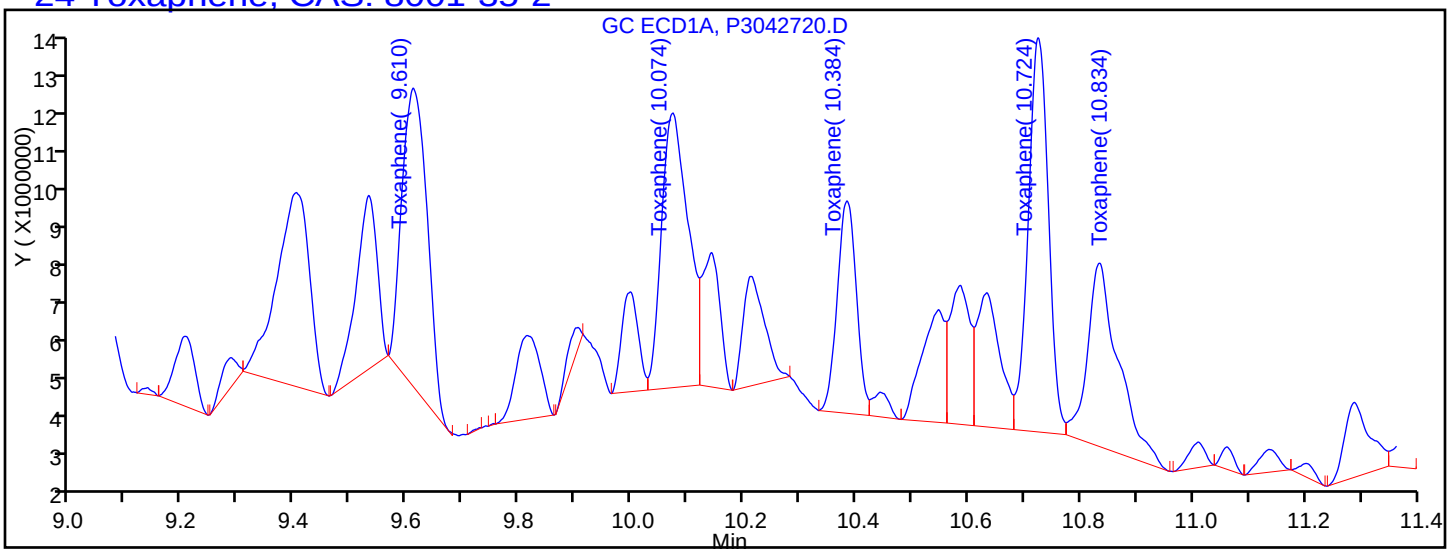
Operator ID: 430893 ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

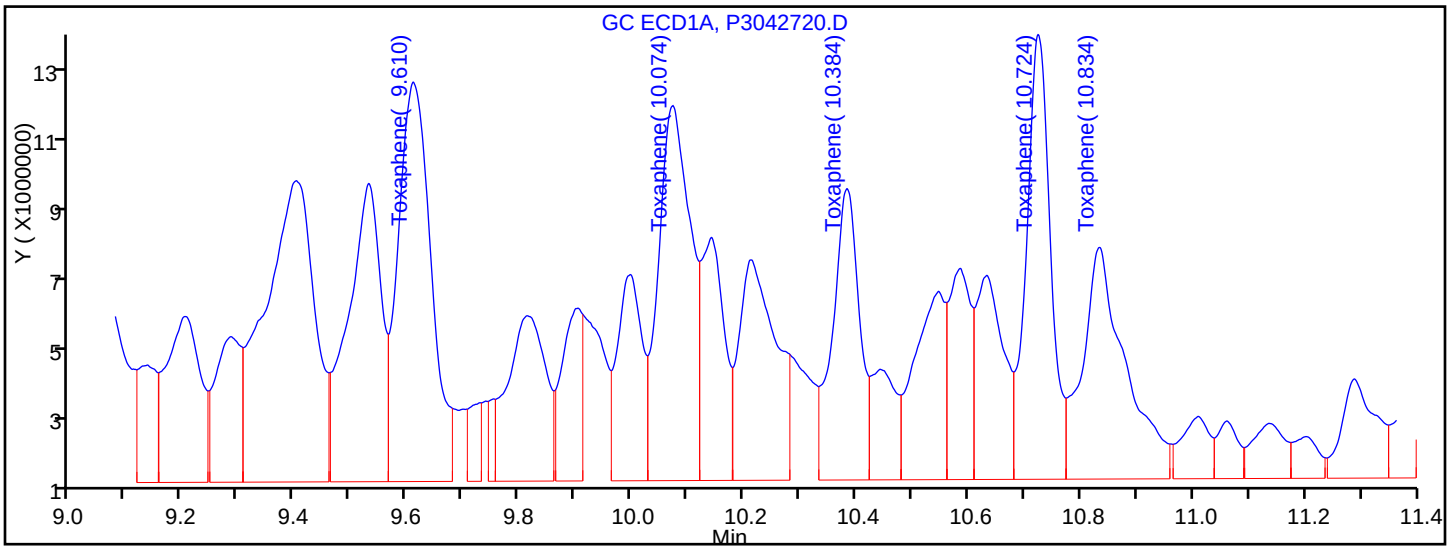
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.610	Response = 24148010	M
RT = 10.074	Response = 23335553	M
RT = 10.384	Response = 12971695	M
RT = 10.724	Response = 25415277	M
RT = 10.834	Response = 18119694	M



Manual Integration Results

RT = 9.610	Response = 44430765	M
RT = 10.074	Response = 40761058	M
RT = 10.384	Response = 26311901	M
RT = 10.724	Response = 36400402	M
RT = 10.834	Response = 33825806	M

Reviewer: matthewsb, 28-Apr-2015 07:47:45

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/20 Calibration Date: 04/27/2015 18:13

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042720.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	58116		1120	1000	12.1	20.0
Toxaphene Peak 2	Ave	50965	57631		1130	1000	13.1	20.0
Toxaphene Peak 3	Ave	35641	38685		1090	1000	8.5	20.0
Toxaphene Peak 4	Ave	45629	45476		997	1000	-0.3	20.0
Toxaphene Peak 5	Ave	15570	15231		978	1000	-2.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/20 Calibration Date: 04/27/2015 18:13

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042720.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.02	10.99	11.05
Toxaphene Peak 2	11.19	11.16	11.22
Toxaphene Peak 3	11.61	11.58	11.64
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.43	12.40	12.46

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042720.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 27-Apr-2015 18:13:58 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-020
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:47:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.610	9.610	0.000	44430765	1000.0	1174.4	M
1	10.074	10.074	0.000	40761058	1000.0	1112.3	M
1	10.384	10.384	0.000	26311901	1000.0	1126.6	M
1	10.724	10.724	0.000	36400402	1000.0	1097.2	M
1	10.834	10.834	0.000	33825806	1000.0	1046.3	M
		Average of Peak Amounts =				1111.4	
2	11.018	11.018	0.000	58116021	1000.0	1121.4	
2	11.187	11.187	0.000	57630695	1000.0	1130.8	
2	11.611	11.611	0.000	38685045	1000.0	1085.4	
2	12.345	12.345	0.000	45475543	1000.0	996.6	
2	12.434	12.434	0.000	15230622	1000.0	978.2	
		Average of Peak Amounts =				1062.5	
						RPD = 4.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

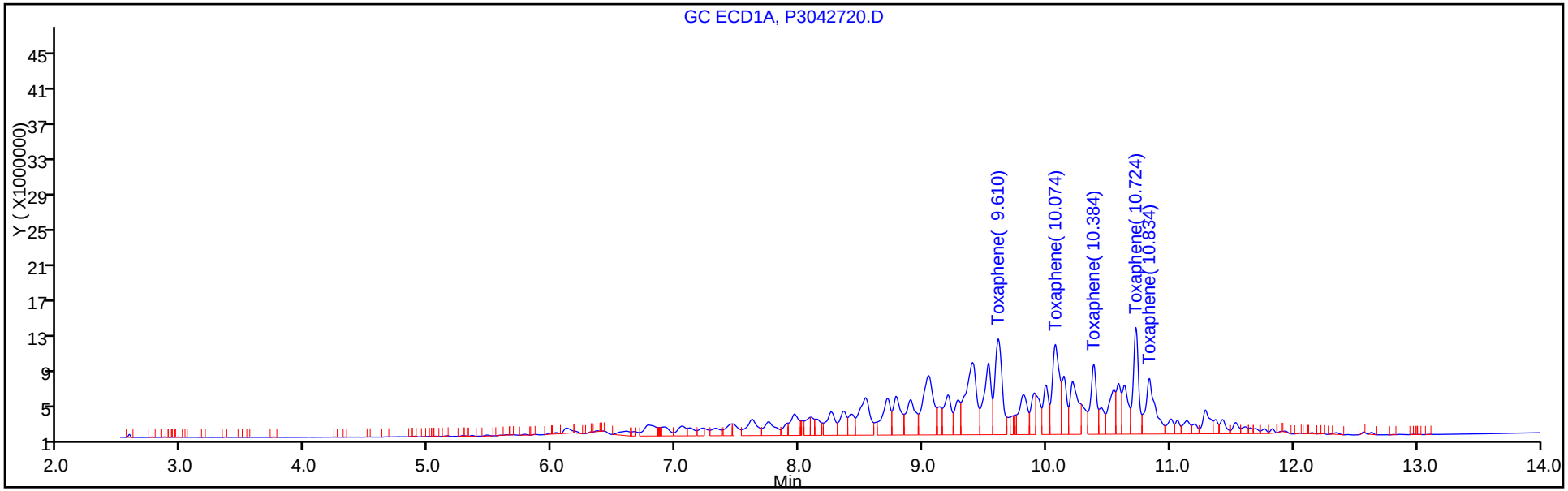
Report Date: 28-Apr-2015 08:12:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

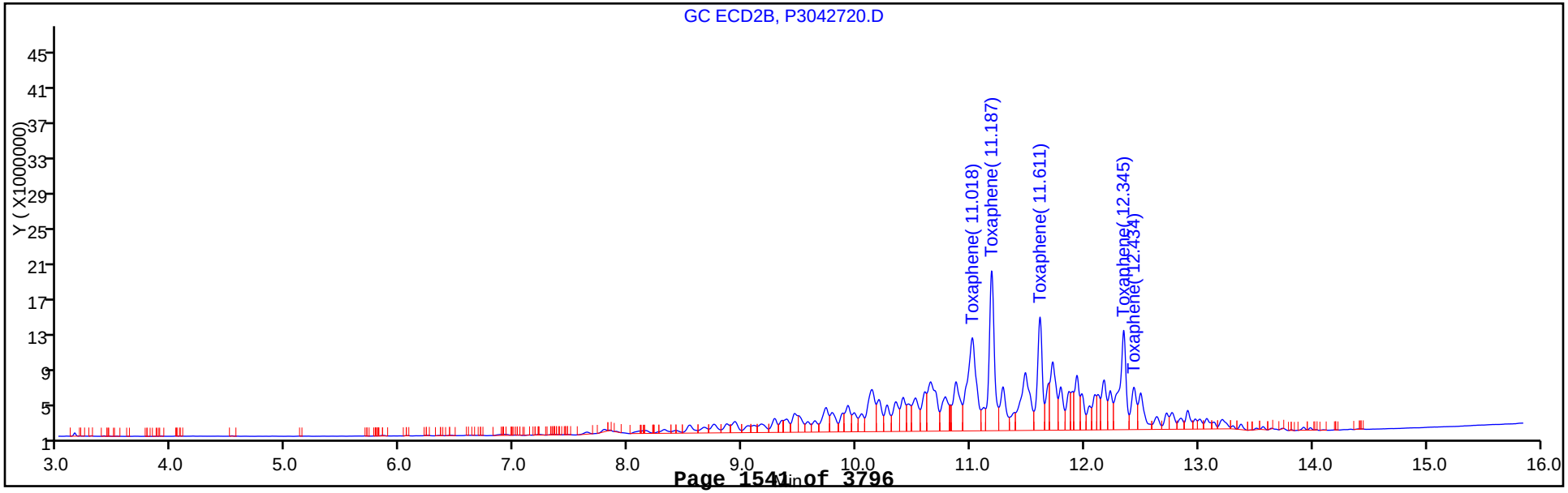
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042720.D

Injection Date:	27-Apr-2015 18:13:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/21 Calibration Date: 04/27/2015 18:38

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042721.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	42787	47638		111	100	11.3	20.0
Chlordane (technical) Peak 2	Ave	49308	55629		113	100	12.8	20.0
Chlordane (technical) Peak 3	Ave	166809	185281		111	100	11.1	20.0
Chlordane (technical) Peak 4	Ave	260084	296880		114	100	14.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/21 Calibration Date: 04/27/2015 18:38

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042721.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.16	5.13	5.19
Chlordane (technical) Peak 2	6.05	6.02	6.08
Chlordane (technical) Peak 3	7.33	7.30	7.36
Chlordane (technical) Peak 4	7.67	7.64	7.70

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042721.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCV
Inject. Date: 27-Apr-2015 18:38:35 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-021
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:12:03 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:48:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.164	5.164	0.000	4763780	100.0	111.3	
1	6.050	6.050	0.000	5562930	100.0	112.8	
1	7.330	7.330	0.000	18528148	100.0	111.1	
1	7.671	7.671	0.000	29687993	100.0	114.1	
		Average of Peak Amounts =				112.3	
2	6.320	6.320	0.000	5518152	100.0	112.7	
2	7.942	7.942	0.000	6149637	100.0	106.2	
2	9.275	9.275	0.000	19630287	100.0	110.9	
2	9.575	9.575	0.000	17539060	100.0	110.9	
		Average of Peak Amounts =				110.2	
						RPD = 1.95	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

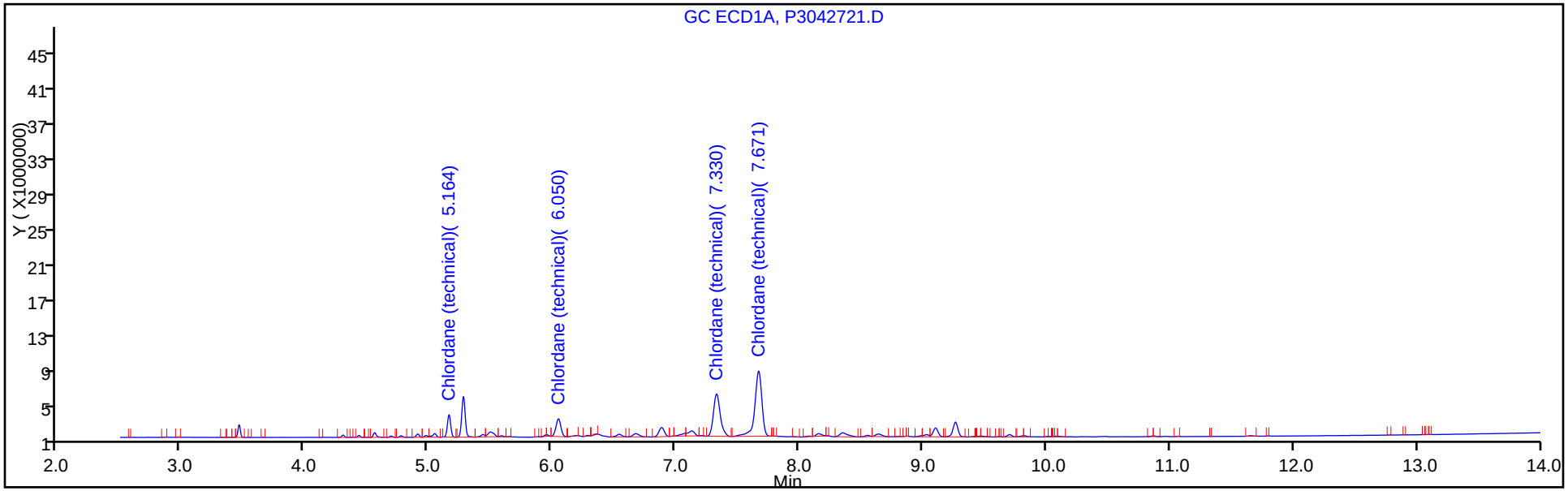
Report Date: 28-Apr-2015 08:12:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

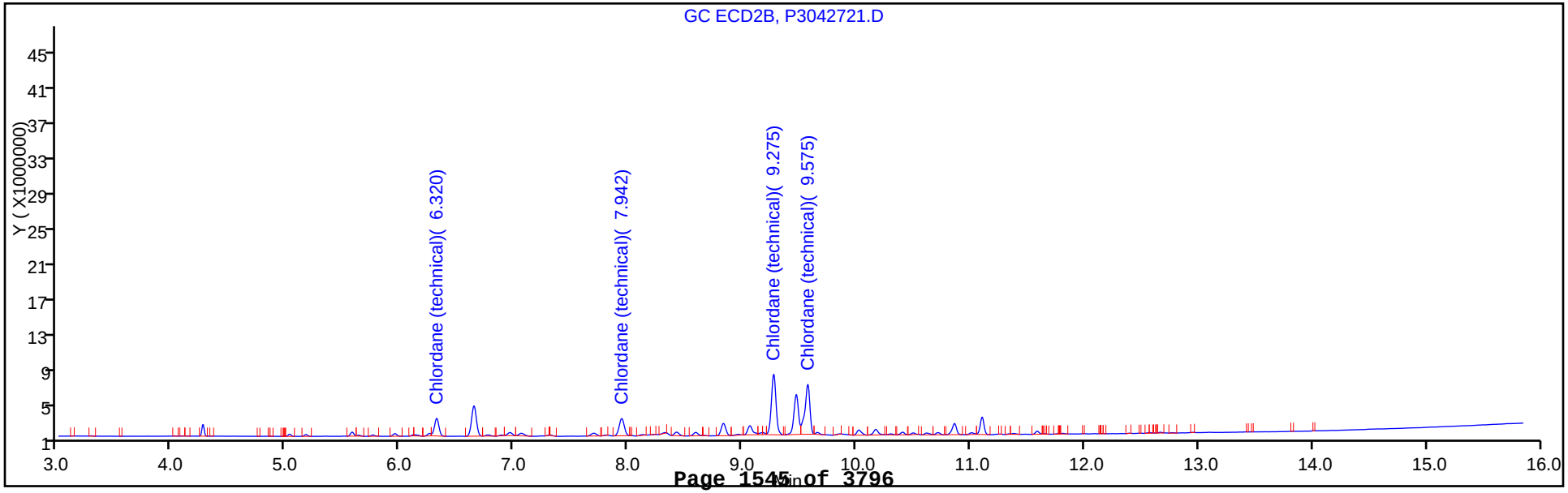
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042721.D

Injection Date:	27-Apr-2015 18:38:35	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/21 Calibration Date: 04/27/2015 18:38

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042721.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	48952	55182		113	100	12.7	20.0
Chlordane (technical) Peak 2	Ave	57903	61496		106	100	6.2	20.0
Chlordane (technical) Peak 3	Ave	177058	196303		111	100	10.9	20.0
Chlordane (technical) Peak 4	Ave	158165	175391		111	100	10.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/21 Calibration Date: 04/27/2015 18:38

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 17:57

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 19:26

Lab File ID: P3042721.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.32	6.29	6.35
Chlordane (technical) Peak 2	7.94	7.91	7.97
Chlordane (technical) Peak 3	9.28	9.25	9.31
Chlordane (technical) Peak 4	9.58	9.55	9.61

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042721.D
Lims ID: CCV TC3
Client ID:
Sample Type: CCV
Inject. Date: 27-Apr-2015 18:38:35 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-021
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub6

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:12:03 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:48:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.164	5.164	0.000	4763780	100.0	111.3	
1	6.050	6.050	0.000	5562930	100.0	112.8	
1	7.330	7.330	0.000	18528148	100.0	111.1	
1	7.671	7.671	0.000	29687993	100.0	114.1	
		Average of Peak Amounts =				112.3	
2	6.320	6.320	0.000	5518152	100.0	112.7	
2	7.942	7.942	0.000	6149637	100.0	106.2	
2	9.275	9.275	0.000	19630287	100.0	110.9	
2	9.575	9.575	0.000	17539060	100.0	110.9	
		Average of Peak Amounts =				110.2	
						RPD = 1.95	

Reagents:

SGPESTTCST_00016 Amount Added: 100.00 Units: uL

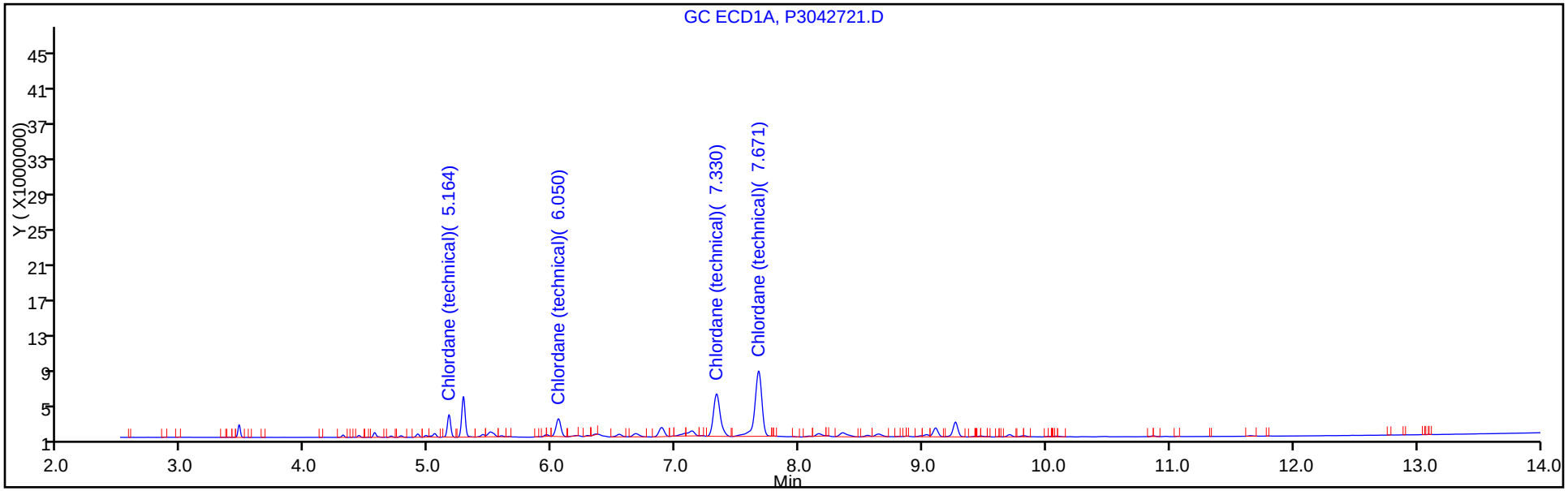
Report Date: 28-Apr-2015 08:12:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

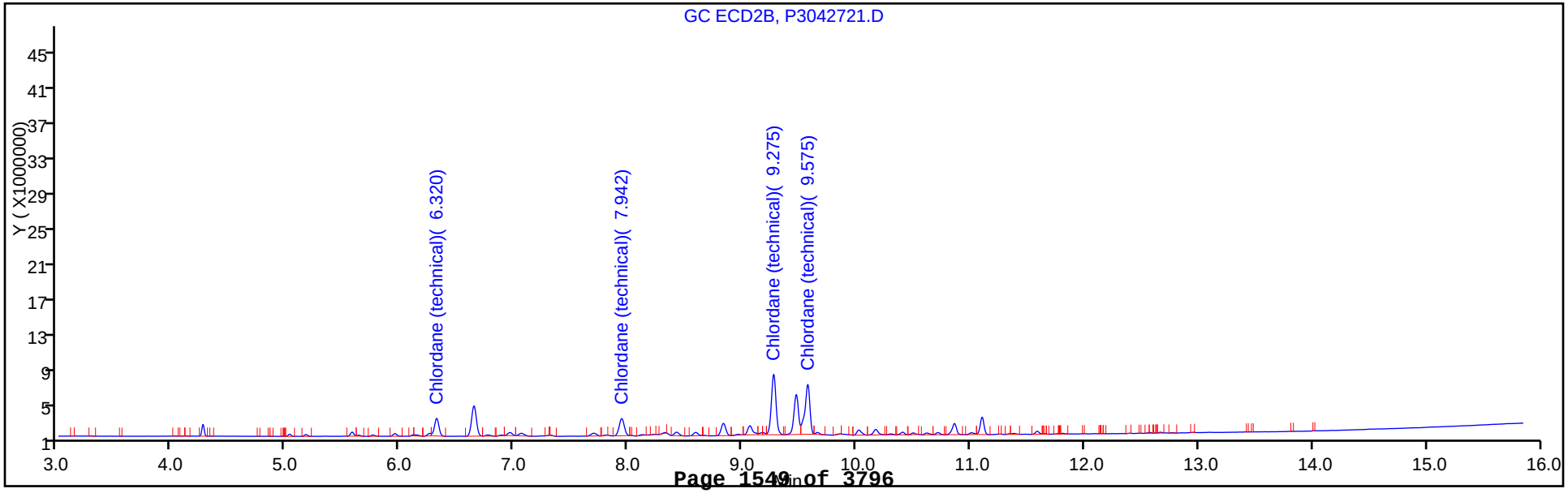
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042721.D

Injection Date:	27-Apr-2015 18:38:35	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TC3			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/22 Calibration Date: 04/27/2015 19:02

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042722.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1970123		28.4	25.0	13.8	20.0
gamma-BHC (Lindane)	Ave	1543740	1751705		28.4	25.0	13.5	20.0
beta-BHC	Ave	629842	723153		28.7	25.0	14.8	20.0
delta-BHC	Ave	1502830	1332665		22.2	25.0	-11.3	20.0
Heptachlor	Ave	1459223	1770460		30.3	25.0	21.3*	20.0
Aldrin	Ave	1461888	1685807		28.8	25.0	15.3	20.0
Heptachlor epoxide	Ave	1303871	1518283		29.1	25.0	16.4	20.0
gamma-Chlordane	Ave	1350629	1523908		28.2	25.0	12.8	20.0
alpha-Chlordane	Ave	1337609	1516814		28.3	25.0	13.4	20.0
Endosulfan I	Ave	1227519	1420050		28.9	25.0	15.7	20.0
4,4'-DDE	Ave	1184677	1386556		29.3	25.0	17.0	20.0
Dieldrin	Ave	1307595	1515833		29.0	25.0	15.9	20.0
Endrin	Ave	1151386	1375063		29.9	25.0	19.4	20.0
4,4'-DDD	Ave	870416	957755		27.5	25.0	10.0	20.0
Endosulfan II	Ave	1156896	1348123		29.1	25.0	16.5	20.0
4,4'-DDT	Ave	955198	1003896		26.3	25.0	5.1	20.0
Endrin aldehyde	Ave	890839	835832		23.5	25.0	-6.2	20.0
Methoxychlor	Ave	458228	536856		29.3	25.0	17.2	20.0
Endosulfan sulfate	Ave	996194	974261		24.4	25.0	-2.2	20.0
Endrin ketone	Ave	1221980	1089091		22.3	25.0	-10.9	20.0
Tetrachloro-m-xylene	Ave	983528	1134539		28.8	25.0	15.4	20.0
DCB Decachlorobiphenyl	Ave	936456	991253		26.5	25.0	5.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/22 Calibration Date: 04/27/2015 19:02

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042722.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.63	4.60	4.66
beta-BHC	4.77	4.74	4.80
delta-BHC	4.99	4.96	5.02
Heptachlor	5.28	5.25	5.31
Aldrin	5.74	5.71	5.77
Heptachlor epoxide	7.01	6.98	7.04
gamma-Chlordane	7.32	7.29	7.35
alpha-Chlordane	7.67	7.64	7.70
Endosulfan I	7.95	7.92	7.98
4,4'-DDE	8.05	8.02	8.08
Dieldrin	8.50	8.47	8.53
Endrin	8.95	8.92	8.98
4,4'-DDD	9.32	9.29	9.35
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.83	9.80	9.86
Endrin aldehyde	10.20	10.17	10.23
Methoxychlor	10.78	10.75	10.81
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.33	11.30	11.36
Tetrachloro-m-xylene	3.55	3.52	3.58
DCB Decachlorobiphenyl	12.93	12.90	12.96

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042722.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 27-Apr-2015 19:02:01 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-022
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:12:06 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:48:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.552	3.552	0.000	28363471	25.0	28.8	
2	4.231	4.231	0.000	31590926	25.0	28.0	
						RPD = 2.84	
4 alpha-BHC							
1	4.247	4.247	0.000	49253064	25.0	28.4	
2	5.124	5.124	0.000	54234841	25.0	27.7	
						RPD = 2.62	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	43792621	25.0	28.4	
2	5.744	5.744	0.000	49040415	25.0	27.7	
						RPD = 2.33	
6 beta-BHC							
1	4.771	4.771	0.000	18078834	25.0	28.7	
2	5.943	5.943	0.000	21575355	25.0	28.1	
						RPD = 2.20	
7 delta-BHC							
1	4.993	4.993	0.000	33316619	25.0	22.2	
2	6.564	6.564	0.000	39220984	25.0	22.1	
						RPD = 0.28	
9 Heptachlor							
1	5.278	5.278	0.000	44261504	25.0	30.3	
2	6.645	6.645	0.000	50091053	25.0	29.6	
						RPD = 2.34	
10 Aldrin							
1	5.741	5.741	0.000	42145181	25.0	28.8	
2	7.449	7.449	0.000	47186930	25.0	28.2	
						RPD = 2.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.012	7.012	0.000	37957086	25.0	29.1	
2	8.883	8.883	0.000	41538040	25.0	28.9	
						RPD = 0.60	
13 gamma-Chlordane							
1	7.324	7.324	0.000	38097691	25.0	28.2	
2	9.277	9.277	0.000	41681023	25.0	28.3	
						RPD = 0.44	
14 alpha-Chlordane							
1	7.671	7.671	0.000	37920348	25.0	28.3	
2	9.575	9.575	0.000	40234043	25.0	28.3	
						RPD = 0.08	
15 Endosulfan I							
1	7.946	7.946	0.000	35501254	25.0	28.9	
2	9.644	9.644	0.000	37959542	25.0	28.7	
						RPD = 0.69	
16 4,4'-DDE							
1	8.048	8.048	0.000	34663890	25.0	29.3	
2	10.003	10.003	0.000	38670447	25.0	29.3	
						RPD = 0.09	
17 Dieldrin							
1	8.502	8.502	0.000	37895825	25.0	29.0	
2	10.159	10.159	0.000	39661249	25.0	29.0	
						RPD = 0.03	
18 Endrin							
1	8.954	8.954	0.000	34376572	25.0	29.9	
2	10.673	10.673	0.000	34360295	25.0	28.5	
						RPD = 4.65	
20 4,4'-DDD							
1	9.315	9.315	0.000	23943873	25.0	27.5	
2	10.996	10.996	0.000	26703442	25.0	27.3	
						RPD = 0.81	
21 Endosulfan II							
1	9.405	9.405	0.000	33703065	25.0	29.1	
2	11.042	11.042	0.000	33198249	25.0	28.4	
						RPD = 2.59	
23 4,4'-DDT							
1	9.830	9.830	0.000	25097391	25.0	26.3	
2	11.479	11.479	0.000	26380383	25.0	26.4	
						RPD = 0.60	
25 Endrin aldehyde							
1	10.200	10.200	0.000	20895791	25.0	23.5	
2	11.600	11.600	0.000	21420513	25.0	22.9	
						RPD = 2.24	
27 Methoxychlor							
1	10.784	10.784	0.000	13421402	25.0	29.3	
2	12.545	12.545	0.000	13205887	25.0	27.0	
						RPD = 8.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.925	10.925	0.000	24356513	25.0	24.4	
2	12.023	12.023	0.000	24975057	25.0	23.6	
						RPD = 3.62	
29 Endrin ketone							
1	11.325	11.325	0.000	27227278	25.0	22.3	
2	12.766	12.766	0.000	27242093	25.0	22.2	
						RPD = 0.43	
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	24781335	25.0	26.5	
2	14.484	14.484	0.000	26903807	25.0	26.4	
						RPD = 0.13	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

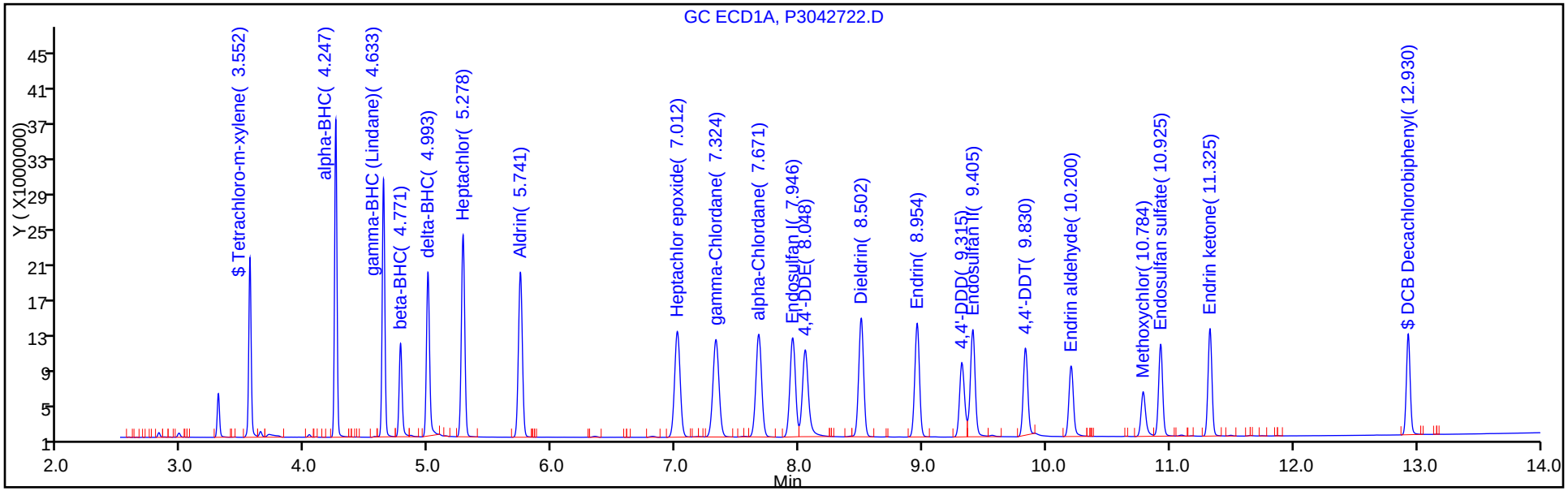
Report Date: 28-Apr-2015 08:12:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

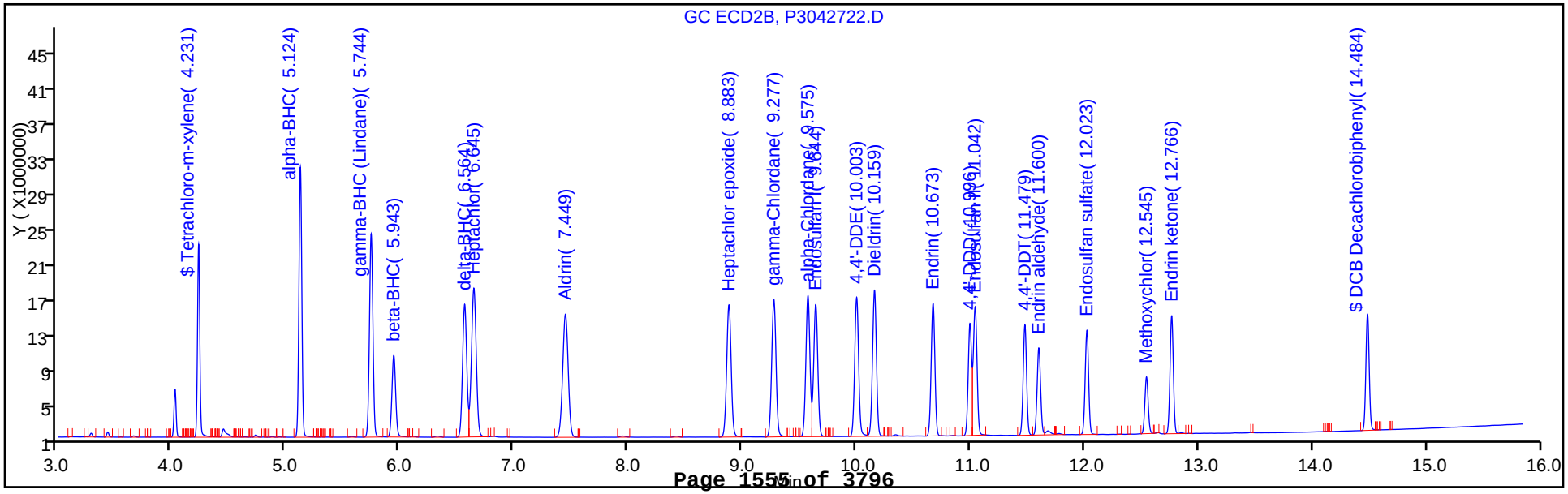
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042722.D

Injection Date:	27-Apr-2015 19:02:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/22 Calibration Date: 04/27/2015 19:02

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042722.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2169394		27.7	25.0	10.8	20.0
gamma-BHC (Lindane)	Ave	1769514	1961617		27.7	25.0	10.9	20.0
beta-BHC	Ave	768367	863014		28.1	25.0	12.3	20.0
delta-BHC	Ave	1774158	1568839		22.1	25.0	-11.6	20.0
Heptachlor	Ave	1690527	2003642		29.6	25.0	18.5	20.0
Aldrin	Ave	1672196	1887477		28.2	25.0	12.9	20.0
Heptachlor epoxide	Ave	1435426	1661522		28.9	25.0	15.8	20.0
gamma-Chlordane	Ave	1471152	1667241		28.3	25.0	13.3	20.0
alpha-Chlordane	Ave	1420369	1609362		28.3	25.0	13.3	20.0
Endosulfan I	Ave	1321597	1518382		28.7	25.0	14.9	20.0
4,4'-DDE	Ave	1320422	1546818		29.3	25.0	17.1	20.0
Dieldrin	Ave	1368089	1586450		29.0	25.0	16.0	20.0
Endrin	Ave	1205577	1374412		28.5	25.0	14.0	20.0
4,4'-DDD	Ave	978644	1068138		27.3	25.0	9.1	20.0
Endosulfan II	Ave	1169425	1327930		28.4	25.0	13.6	20.0
4,4'-DDT	Ave	997996	1055215		26.4	25.0	5.7	20.0
Endrin aldehyde	Ave	933862	856821		22.9	25.0	-8.2	20.0
Endosulfan sulfate	Ave	1059131	999002		23.6	25.0	-5.7	20.0
Methoxychlor	Ave	489196	528235		27.0	25.0	8.0	20.0
Endrin ketone	Ave	1227876	1089684		22.2	25.0	-11.3	20.0
Tetrachloro-m-xylene	Ave	1127022	1263637		28.0	25.0	12.1	20.0
DCB Decachlorobiphenyl	Ave	1017987	1076152		26.4	25.0	5.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-178086/22 Calibration Date: 04/27/2015 19:02

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042722.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.12	5.09	5.15
gamma-BHC (Lindane)	5.74	5.71	5.77
beta-BHC	5.94	5.91	5.97
delta-BHC	6.56	6.53	6.59
Heptachlor	6.65	6.62	6.68
Aldrin	7.45	7.42	7.48
Heptachlor epoxide	8.88	8.85	8.91
gamma-Chlordane	9.28	9.25	9.31
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.64	9.61	9.67
4,4'-DDE	10.00	9.97	10.03
Dieldrin	10.16	10.13	10.19
Endrin	10.67	10.64	10.70
4,4'-DDD	11.00	10.97	11.03
Endosulfan II	11.04	11.01	11.07
4,4'-DDT	11.48	11.45	11.51
Endrin aldehyde	11.60	11.57	11.63
Endosulfan sulfate	12.02	11.99	12.05
Methoxychlor	12.55	12.52	12.58
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.23	4.20	4.26
DCB Decachlorobiphenyl	14.48	14.45	14.51

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042722.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 27-Apr-2015 19:02:01 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-022
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:12:06 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:48:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.552	3.552	0.000	28363471	25.0	28.8	
2	4.231	4.231	0.000	31590926	25.0	28.0	
						RPD = 2.84	
4 alpha-BHC							
1	4.247	4.247	0.000	49253064	25.0	28.4	
2	5.124	5.124	0.000	54234841	25.0	27.7	
						RPD = 2.62	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	43792621	25.0	28.4	
2	5.744	5.744	0.000	49040415	25.0	27.7	
						RPD = 2.33	
6 beta-BHC							
1	4.771	4.771	0.000	18078834	25.0	28.7	
2	5.943	5.943	0.000	21575355	25.0	28.1	
						RPD = 2.20	
7 delta-BHC							
1	4.993	4.993	0.000	33316619	25.0	22.2	
2	6.564	6.564	0.000	39220984	25.0	22.1	
						RPD = 0.28	
9 Heptachlor							
1	5.278	5.278	0.000	44261504	25.0	30.3	
2	6.645	6.645	0.000	50091053	25.0	29.6	
						RPD = 2.34	
10 Aldrin							
1	5.741	5.741	0.000	42145181	25.0	28.8	
2	7.449	7.449	0.000	47186930	25.0	28.2	
						RPD = 2.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.012	7.012	0.000	37957086	25.0	29.1	
2	8.883	8.883	0.000	41538040	25.0	28.9	
						RPD = 0.60	
13 gamma-Chlordane							
1	7.324	7.324	0.000	38097691	25.0	28.2	
2	9.277	9.277	0.000	41681023	25.0	28.3	
						RPD = 0.44	
14 alpha-Chlordane							
1	7.671	7.671	0.000	37920348	25.0	28.3	
2	9.575	9.575	0.000	40234043	25.0	28.3	
						RPD = 0.08	
15 Endosulfan I							
1	7.946	7.946	0.000	35501254	25.0	28.9	
2	9.644	9.644	0.000	37959542	25.0	28.7	
						RPD = 0.69	
16 4,4'-DDE							
1	8.048	8.048	0.000	34663890	25.0	29.3	
2	10.003	10.003	0.000	38670447	25.0	29.3	
						RPD = 0.09	
17 Dieldrin							
1	8.502	8.502	0.000	37895825	25.0	29.0	
2	10.159	10.159	0.000	39661249	25.0	29.0	
						RPD = 0.03	
18 Endrin							
1	8.954	8.954	0.000	34376572	25.0	29.9	
2	10.673	10.673	0.000	34360295	25.0	28.5	
						RPD = 4.65	
20 4,4'-DDD							
1	9.315	9.315	0.000	23943873	25.0	27.5	
2	10.996	10.996	0.000	26703442	25.0	27.3	
						RPD = 0.81	
21 Endosulfan II							
1	9.405	9.405	0.000	33703065	25.0	29.1	
2	11.042	11.042	0.000	33198249	25.0	28.4	
						RPD = 2.59	
23 4,4'-DDT							
1	9.830	9.830	0.000	25097391	25.0	26.3	
2	11.479	11.479	0.000	26380383	25.0	26.4	
						RPD = 0.60	
25 Endrin aldehyde							
1	10.200	10.200	0.000	20895791	25.0	23.5	
2	11.600	11.600	0.000	21420513	25.0	22.9	
						RPD = 2.24	
27 Methoxychlor							
1	10.784	10.784	0.000	13421402	25.0	29.3	
2	12.545	12.545	0.000	13205887	25.0	27.0	
						RPD = 8.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.925	10.925	0.000	24356513	25.0	24.4	
2	12.023	12.023	0.000	24975057	25.0	23.6	
						RPD = 3.62	
29 Endrin ketone							
1	11.325	11.325	0.000	27227278	25.0	22.3	
2	12.766	12.766	0.000	27242093	25.0	22.2	
						RPD = 0.43	
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	24781335	25.0	26.5	
2	14.484	14.484	0.000	26903807	25.0	26.4	
						RPD = 0.13	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

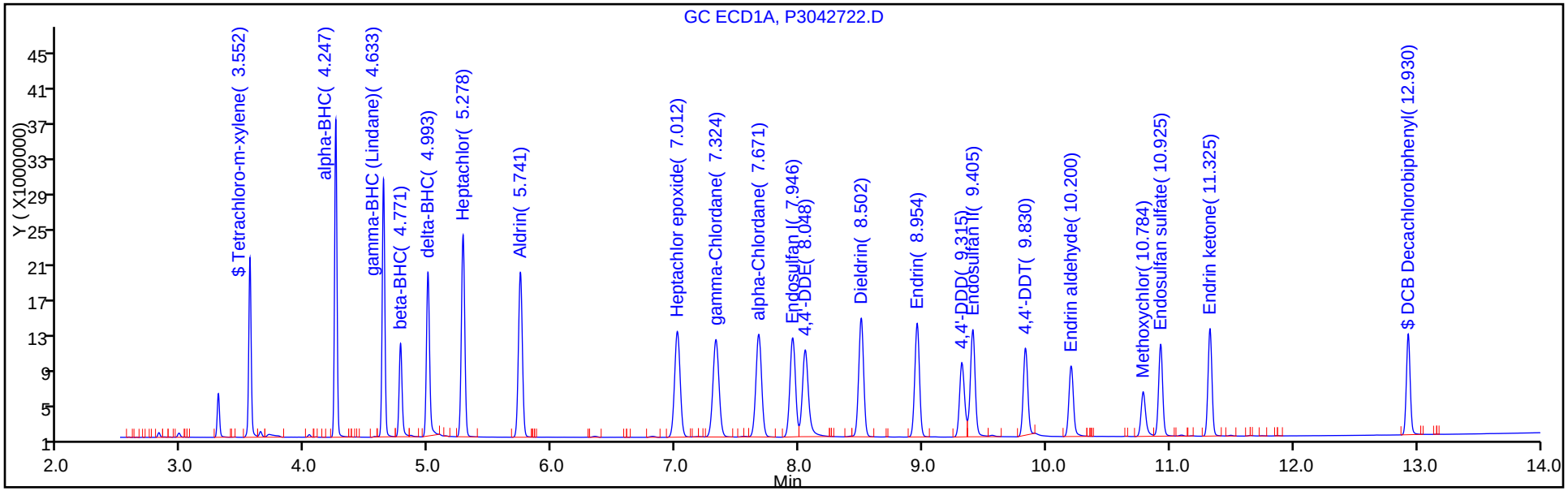
Report Date: 28-Apr-2015 08:12:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

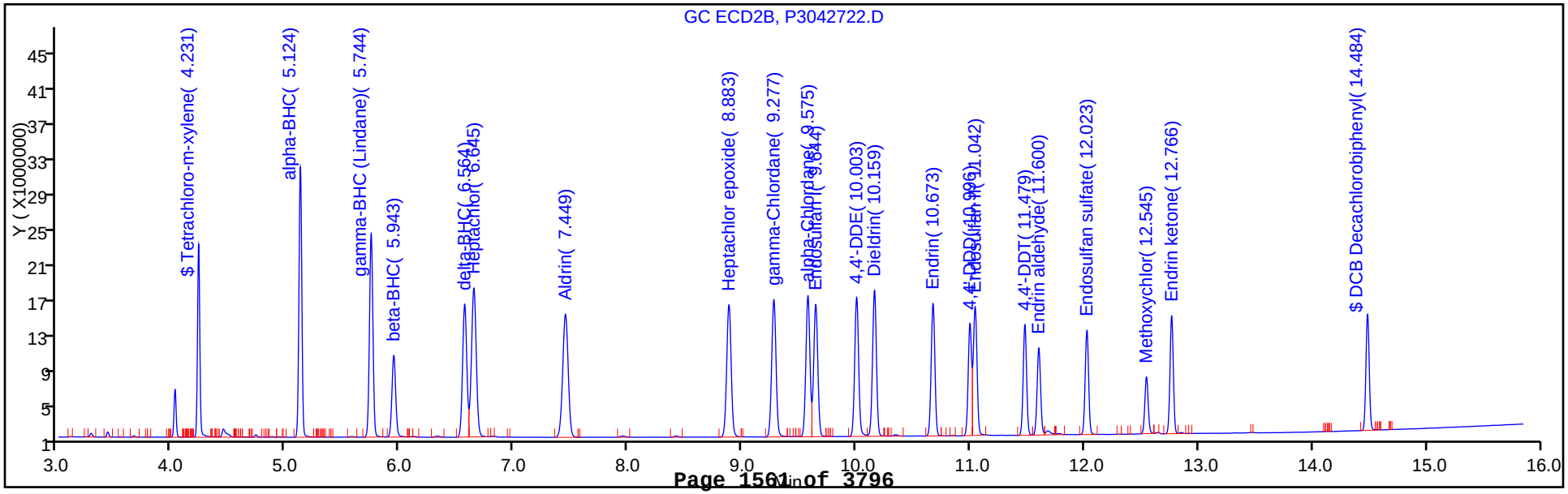
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042722.D

Injection Date:	27-Apr-2015 19:02:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176509/2-A

Matrix: Water | Lab File ID: P3041617.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/15/2015 09:05

Sample wt/vol: 1000(mL) | Date Analyzed: 04/16/2015 19:56

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.050	U	0.050	0.050	0.018
72-55-9	4,4'-DDE	0.050	U	0.050	0.050	0.012
50-29-3	4,4'-DDT	0.050	U	0.050	0.050	0.017
309-00-2	Aldrin	0.050	U	0.050	0.050	0.013
319-84-6	alpha-BHC	0.050	U	0.050	0.050	0.014
5103-71-9	alpha-Chlordane	0.050	U	0.050	0.050	0.012
319-85-7	beta-BHC	0.050	U	0.050	0.050	0.018
319-86-8	delta-BHC	0.050	U	0.050	0.050	0.029
60-57-1	Dieldrin	0.050	U	0.050	0.050	0.013
959-98-8	Endosulfan I	0.050	U	0.050	0.050	0.016
33213-65-9	Endosulfan II	0.050	U	0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	0.050	U	0.050	0.050	0.015
72-20-8	Endrin	0.050	U	0.050	0.050	0.013
7421-93-4	Endrin aldehyde	0.050	U	0.050	0.050	0.018
53494-70-5	Endrin ketone	0.050	U	0.050	0.050	0.016
58-89-9	gamma-BHC (Lindane)	0.050	U	0.050	0.050	0.013
5103-74-2	gamma-Chlordane	0.050	U	0.050	0.050	0.013
76-44-8	Heptachlor	0.050	U	0.050	0.050	0.014
1024-57-3	Heptachlor epoxide	0.050	U	0.050	0.050	0.015
72-43-5	Methoxychlor	0.050	U	0.10	0.050	0.013
8001-35-2	Toxaphene	2.0	U	2.0	2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	99		30-135
877-09-8	Tetrachloro-m-xylene	84		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041617.D
Lims ID: MB 240-176509/2-A
Client ID:
Sample Type: MB
Inject. Date: 16-Apr-2015 19:56:47 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-017
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.560	3.563	-0.003	32910866	40.0	33.5	
2	4.240	4.240	0.000	38028270	40.0	33.7	
						RPD = 0.83	
3 Hexachlorobenzene							
1		4.035				ND	
2		4.885					
2 Diallate							
1		4.131				ND	
1		4.297					
2		4.837					
2		4.999					
4 alpha-BHC							
1		4.258				ND	
2		5.134					
5 gamma-BHC (Lindane)							
1		4.646				ND	
2		5.758					
6 beta-BHC							
1		4.784				ND	
2		5.957					
7 delta-BHC							
1		5.007				ND	
2		6.581					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1		5.293				ND	
2		6.663					
10 Aldrin							
1		5.759				ND	
2		7.469					
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1		7.036				ND	
2		8.898					
13 gamma-Chlordane							
1		7.352				ND	
2		9.291					
14 alpha-Chlordane							
1		7.698				ND	
2		9.589					
15 Endosulfan I							
1		7.971				ND	
2		9.658					
16 4,4'-DDE							
1		8.068				ND	
2		10.016					
17 Dieldrin							
1		8.521				ND	
2		10.172					
18 Endrin							
1		8.973				ND	
2		10.685					
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1		9.334				ND	
2		11.009					
21 Endosulfan II							
1		9.422				ND	
2		11.055					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							
1		9.626				ND	
1		10.087					
1		10.399					
1		10.741					
1		10.847					
2		11.033					
2		11.200					
2		11.624					
2		12.359					
2		12.449					
23 4,4'-DDT							
1		9.847				ND	
2		11.491					
25 Endrin aldehyde							
1		10.215				ND	
2		11.613					
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1		10.796				ND	
2		12.557					
28 Endosulfan sulfate							
1		10.939				ND	
2		12.034					
29 Endrin ketone							
1		11.338				ND	
2		12.779					
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.943	-0.003	37139841	40.0	39.7	
2	14.496	14.496	0.000	39069366	40.0	38.4	
						RPD = 3.28	

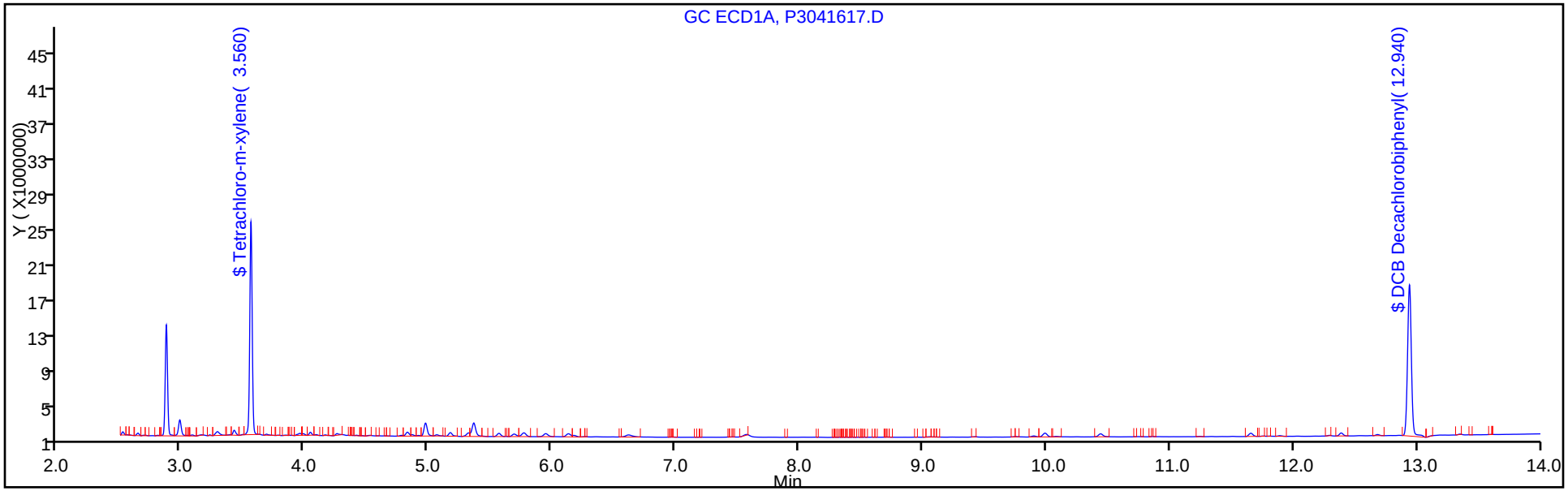
Report Date: 17-Apr-2015 08:37:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

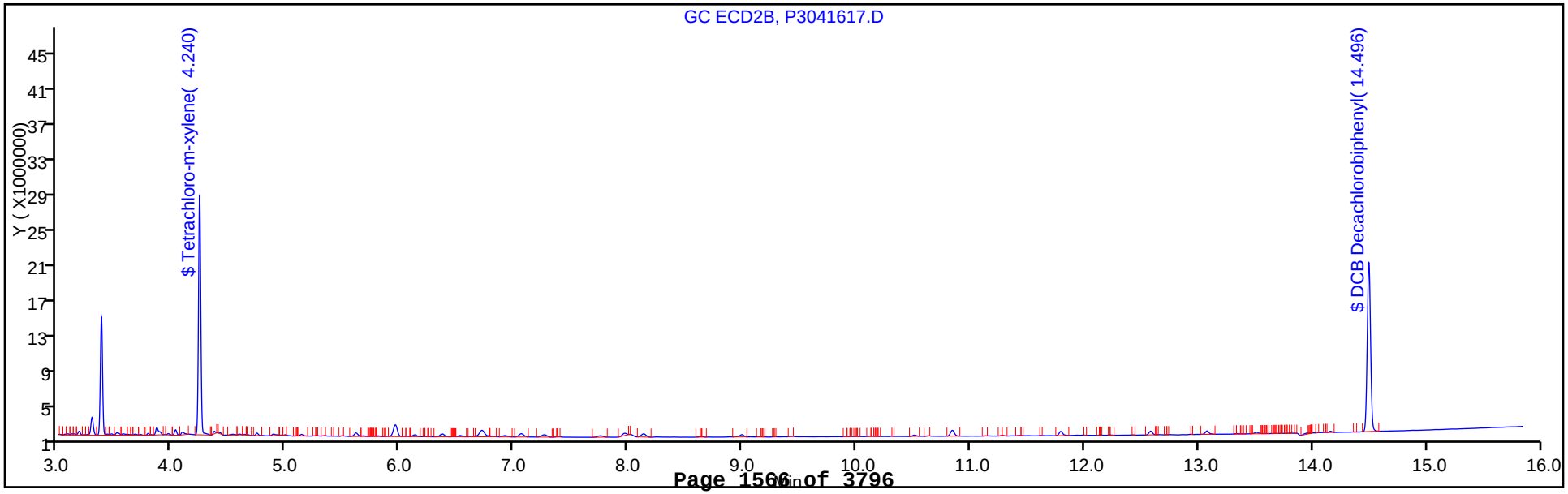
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041617.D

Injection Date:	16-Apr-2015 19:56:47	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-176509/2-A			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-176509/2-A

Matrix: Water Lab File ID: P3041617.D

Analysis Method: 8081A Date Collected:

Extraction Method: 3520C Date Extracted: 04/15/2015 09:05

Sample wt/vol: 1000(mL) Date Analyzed: 04/16/2015 19:56

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	96		30-135
877-09-8	Tetrachloro-m-xylene	84		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041617.D
Lims ID: MB 240-176509/2-A
Client ID:
Sample Type: MB
Inject. Date: 16-Apr-2015 19:56:47 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-017
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.560	3.563	-0.003	32910866	40.0	33.5	
2	4.240	4.240	0.000	38028270	40.0	33.7	
						RPD = 0.83	
3 Hexachlorobenzene							
1		4.035				ND	
2		4.885					
2 Diallate							
1		4.131				ND	
1		4.297					
2		4.837					
2		4.999					
4 alpha-BHC							
1		4.258				ND	
2		5.134					
5 gamma-BHC (Lindane)							
1		4.646				ND	
2		5.758					
6 beta-BHC							
1		4.784				ND	
2		5.957					
7 delta-BHC							
1		5.007				ND	
2		6.581					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1		5.293				ND	
2		6.663					
10 Aldrin							
1		5.759				ND	
2		7.469					
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1		7.036				ND	
2		8.898					
13 gamma-Chlordane							
1		7.352				ND	
2		9.291					
14 alpha-Chlordane							
1		7.698				ND	
2		9.589					
15 Endosulfan I							
1		7.971				ND	
2		9.658					
16 4,4'-DDE							
1		8.068				ND	
2		10.016					
17 Dieldrin							
1		8.521				ND	
2		10.172					
18 Endrin							
1		8.973				ND	
2		10.685					
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1		9.334				ND	
2		11.009					
21 Endosulfan II							
1		9.422				ND	
2		11.055					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							
1		9.626				ND	
1		10.087					
1		10.399					
1		10.741					
1		10.847					
2		11.033					
2		11.200					
2		11.624					
2		12.359					
2		12.449					
23 4,4'-DDT							
1		9.847				ND	
2		11.491					
25 Endrin aldehyde							
1		10.215				ND	
2		11.613					
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1		10.796				ND	
2		12.557					
28 Endosulfan sulfate							
1		10.939				ND	
2		12.034					
29 Endrin ketone							
1		11.338				ND	
2		12.779					
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.943	-0.003	37139841	40.0	39.7	
2	14.496	14.496	0.000	39069366	40.0	38.4	
						RPD = 3.28	

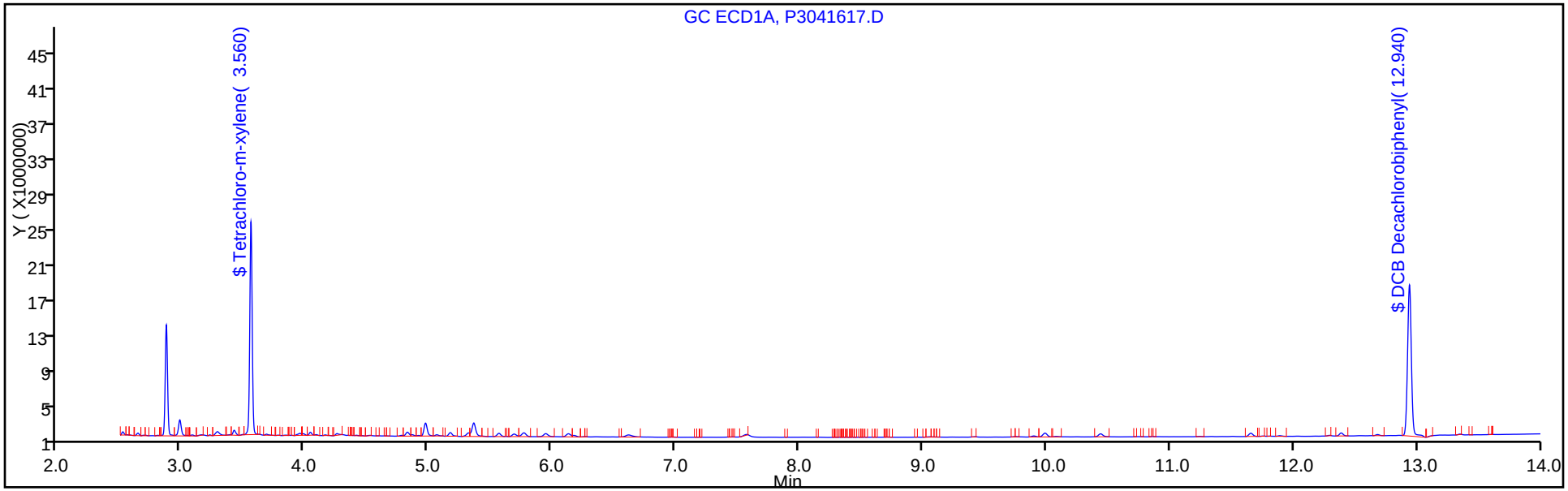
Report Date: 17-Apr-2015 08:37:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

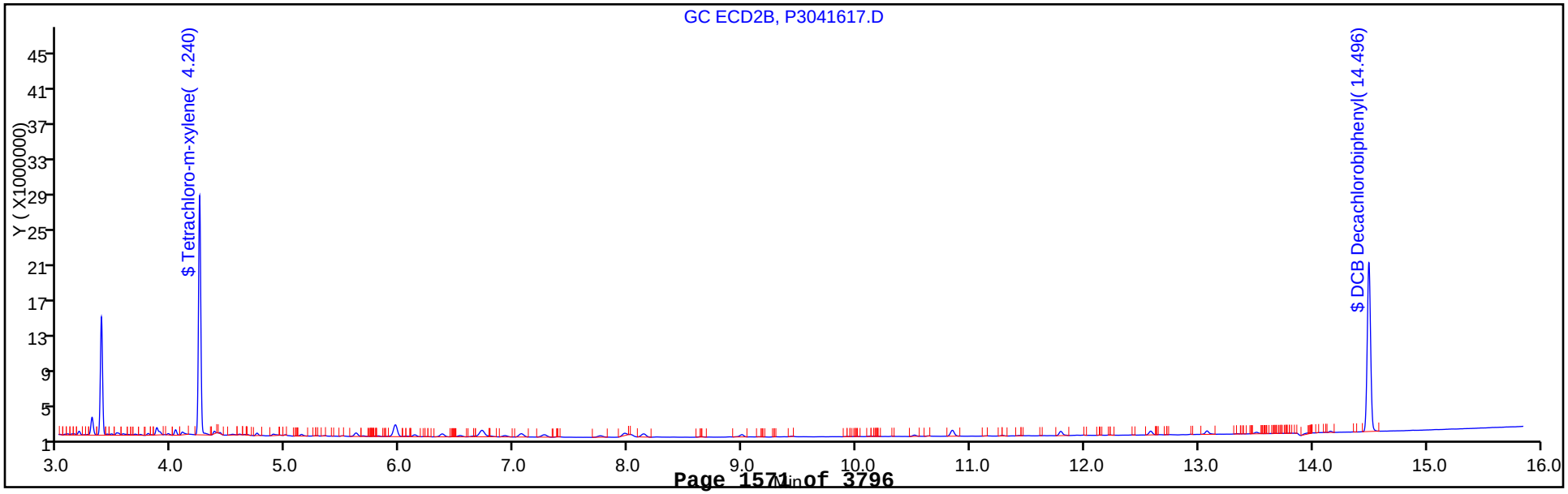
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041617.D

Injection Date:	16-Apr-2015 19:56:47	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-176509/2-A			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-176661/5-A

Matrix: Solid Lab File ID: P3042145.D

Analysis Method: 8081A Date Collected:

Extraction Method: 3520C Date Extracted: 04/16/2015 08:22

Sample wt/vol: 250(mL) Date Analyzed: 04/22/2015 05:39

Con. Extract Vol.: 3(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	78		44-144
877-09-8	Tetrachloro-m-xylene	83		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042145.D
Lims ID: MB 240-176661/5-A
Client ID:
Sample Type: MB
Inject. Date: 22-Apr-2015 05:39:43 ALS Bottle#: 45 Worklist Smp#: 45
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-045
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:36:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.554	-0.004	54184242	66.7	55.1	
2	4.235	4.235	0.000	60426893	66.7	53.6	
						RPD = 2.71	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.128					
5 gamma-BHC (Lindane)							
1		4.637				ND	
2		5.751					
6 beta-BHC							
1	4.769	4.775	-0.006	1024084		1.63	
2	5.949	5.950	-0.001	5956299		7.75	
						RPD = 130.65	
7 delta-BHC							
1		4.998				ND	
2		6.573					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					
21 Endosulfan II							
1		9.411				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1		9.838				ND	
2		11.487					
25 Endrin aldehyde							
1		10.206				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.789				ND	
2		12.553					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.030					
29 Endrin ketone							
1		11.333				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1	12.935	12.938	-0.003	48899379	66.7	52.2	
2	14.491	14.493	-0.002	55392663	66.7	54.4	
						RPD = 4.12	

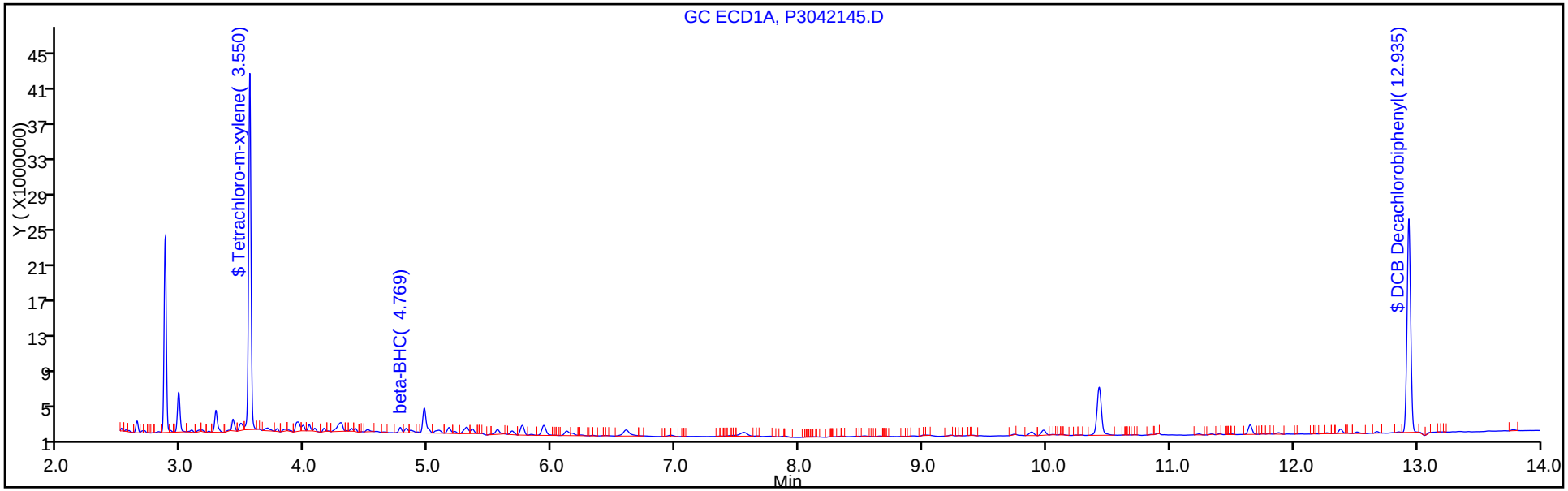
Report Date: 22-Apr-2015 08:58:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

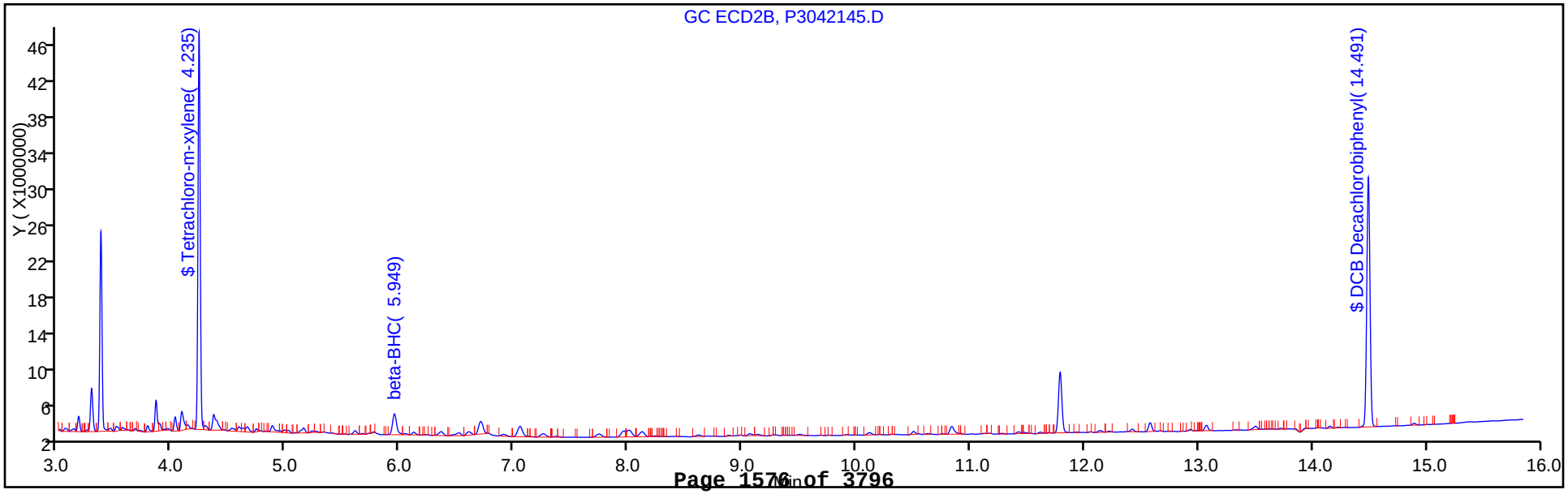
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042145.D

Injection Date:	22-Apr-2015 05:39:43	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-176661/5-A			Worklist Smp#:	45
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-176661/5-A

Matrix: Solid Lab File ID: P3042145.D

Analysis Method: 8081A Date Collected:

Extraction Method: 3520C Date Extracted: 04/16/2015 08:22

Sample wt/vol: 250(mL) Date Analyzed: 04/22/2015 05:39

Con. Extract Vol.: 3(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	82		44-144
877-09-8	Tetrachloro-m-xylene	80		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042145.D
Lims ID: MB 240-176661/5-A
Client ID:
Sample Type: MB
Inject. Date: 22-Apr-2015 05:39:43 ALS Bottle#: 45 Worklist Smp#: 45
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-045
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:36:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.554	-0.004	54184242	66.7	55.1	
2	4.235	4.235	0.000	60426893	66.7	53.6	
						RPD = 2.71	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.128					
5 gamma-BHC (Lindane)							
1		4.637				ND	
2		5.751					
6 beta-BHC							
1	4.769	4.775	-0.006	1024084		1.63	
2	5.949	5.950	-0.001	5956299		7.75	
						RPD = 130.65	
7 delta-BHC							
1		4.998				ND	
2		6.573					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					
21 Endosulfan II							
1		9.411				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1		9.838				ND	
2		11.487					
25 Endrin aldehyde							
1		10.206				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.789				ND	
2		12.553					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.030					
29 Endrin ketone							
1		11.333				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1	12.935	12.938	-0.003	48899379	66.7	52.2	
2	14.491	14.493	-0.002	55392663	66.7	54.4	
						RPD = 4.12	

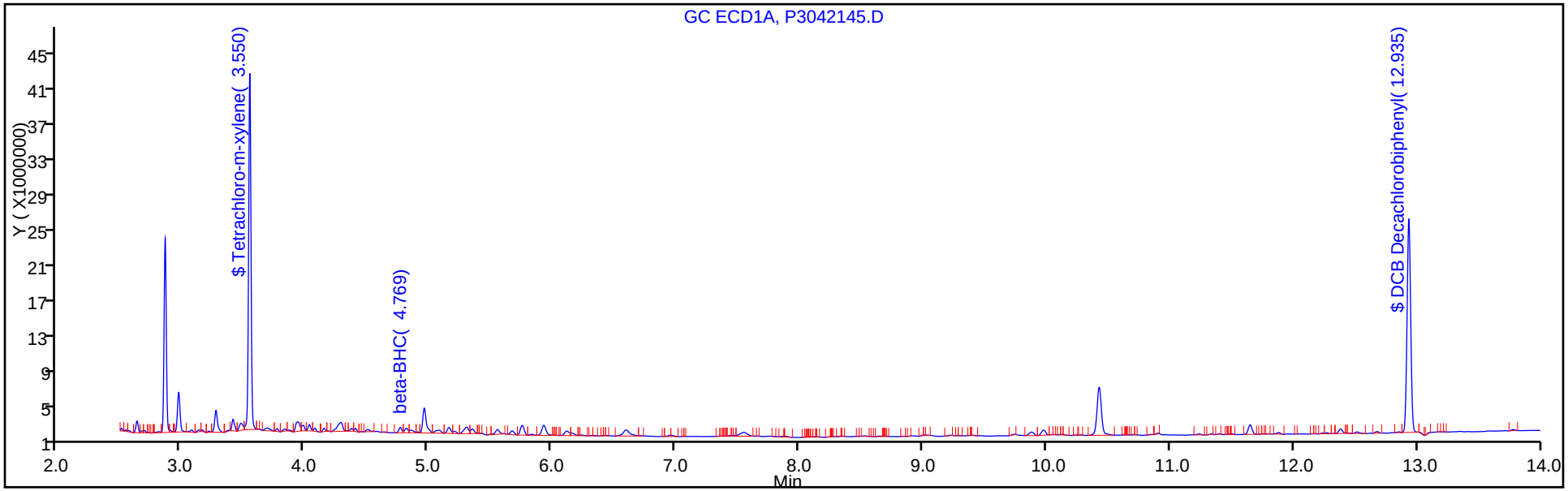
Report Date: 22-Apr-2015 08:58:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

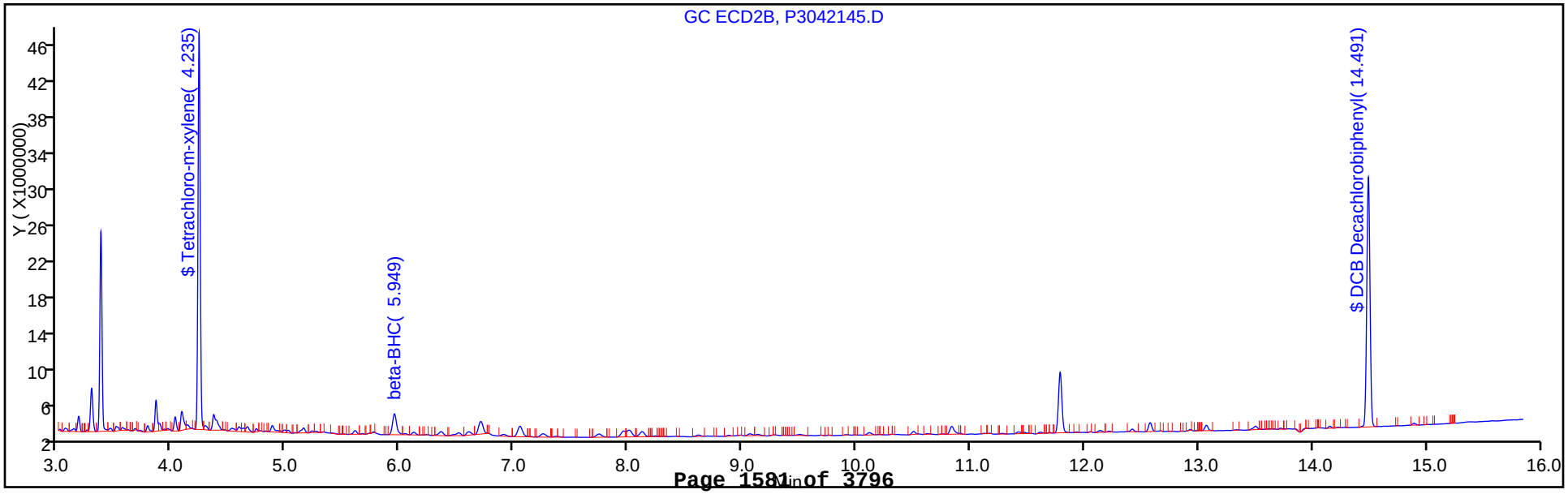
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042145.D

Injection Date:	22-Apr-2015 05:39:43	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-176661/5-A			Worklist Smp#:	45
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-177491/3-A

Matrix: Water | Lab File ID: P3042715.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/22/2015 15:15

Sample wt/vol: 250(mL) | Date Analyzed: 04/27/2015 16:16

Con. Extract Vol.: 3(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	0.0012	U	0.030	0.0012	0.00014
72-20-8	Endrin	0.00012	U	0.010	0.00012	0.000013
58-89-9	gamma-BHC (Lindane)	0.00012	U	0.010	0.00012	0.000013
76-44-8	Heptachlor	0.00012	U	0.010	0.00012	0.000014
1024-57-3	Heptachlor epoxide	0.00012	U	0.010	0.00012	0.000015
8001-35-2	Toxaphene	0.0048	U	0.50	0.0048	0.00020

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	98		44-144
877-09-8	Tetrachloro-m-xylene	79		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042715.D
Lims ID: MB 240-177491/3-A
Client ID:
Sample Type: MB
Inject. Date: 27-Apr-2015 16:16:18 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-015
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:20:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.550	0.001	51504680	66.7	52.4	
2	4.232	4.231	0.001	58365512	66.7	51.8	
						RPD = 1.11	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1		4.246				ND	
2		5.123					
5 gamma-BHC (Lindane)							
1		4.633				ND	
2		5.744					
6 beta-BHC							
1	4.771	4.770	0.001	1489678		2.37	
2	5.943	5.942	0.001	10683180		13.9	
						RPD = 141.85	
7 delta-BHC							
1		4.992				ND	
2		6.564					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					
21 Endosulfan II							
1		9.402				ND	
2		11.041					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.774	10.785	-0.011	3263812		7.12	
2	12.570	12.546	0.024	966985		1.98	
						RPD = 113.11	
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	60930036	66.7	65.1	
2	14.484	14.484	0.000	66349076	66.7	65.2	
						RPD = 0.17	

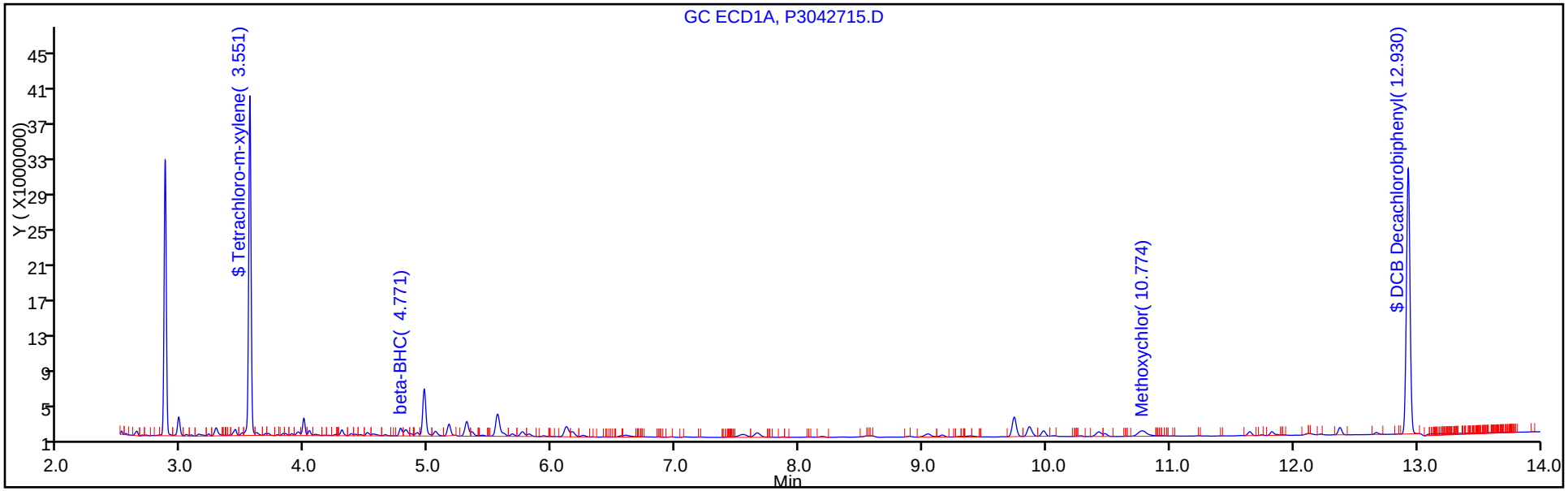
Report Date: 28-Apr-2015 08:11:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

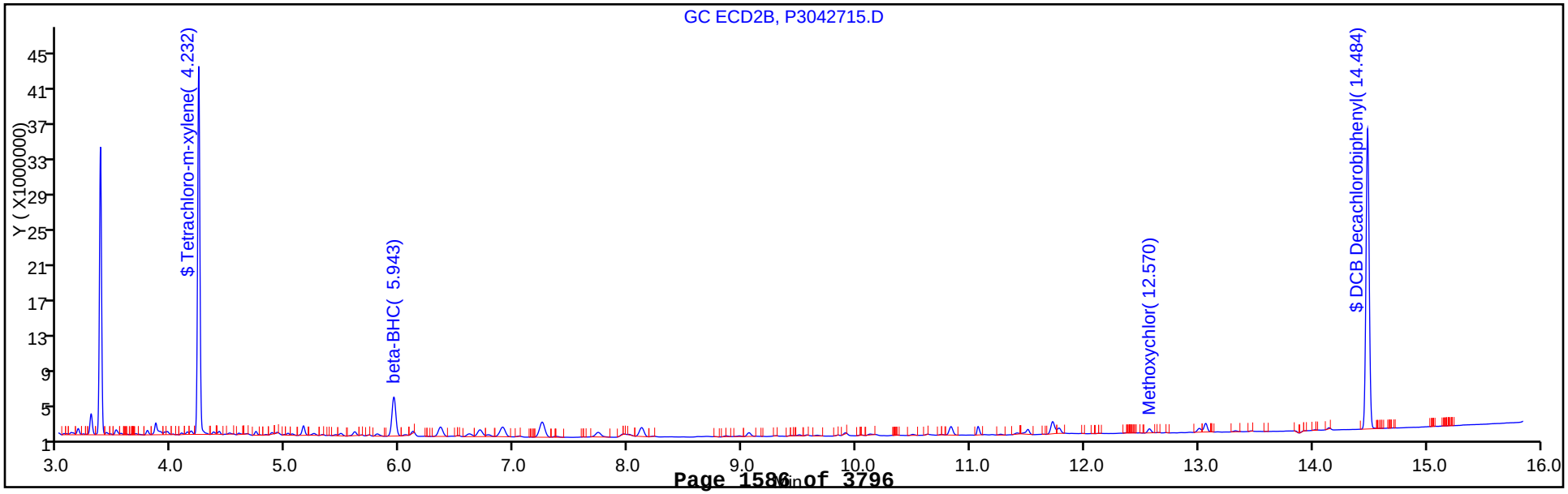
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042715.D

Injection Date:	27-Apr-2015 16:16:18	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-177491/3-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-177491/3-A

Matrix: Water | Lab File ID: P3042715.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/22/2015 15:15

Sample wt/vol: 250(mL) | Date Analyzed: 04/27/2015 16:16

Con. Extract Vol.: 3(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-43-5	Methoxychlor	0.0000237	J	0.030	0.00012	0.000013

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	98		44-144
877-09-8	Tetrachloro-m-xylene	78		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042715.D
Lims ID: MB 240-177491/3-A
Client ID:
Sample Type: MB
Inject. Date: 27-Apr-2015 16:16:18 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-015
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:20:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.550	0.001	51504680	66.7	52.4	
2	4.232	4.231	0.001	58365512	66.7	51.8	
						RPD = 1.11	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1		4.246				ND	
2		5.123					
5 gamma-BHC (Lindane)							
1		4.633				ND	
2		5.744					
6 beta-BHC							
1	4.771	4.770	0.001	1489678		2.37	
2	5.943	5.942	0.001	10683180		13.9	
						RPD = 141.85	
7 delta-BHC							
1		4.992				ND	
2		6.564					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					
21 Endosulfan II							
1		9.402				ND	
2		11.041					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.774	10.785	-0.011	3263812		7.12	
2	12.570	12.546	0.024	966985		1.98	
						RPD = 113.11	
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	60930036	66.7	65.1	
2	14.484	14.484	0.000	66349076	66.7	65.2	
						RPD = 0.17	

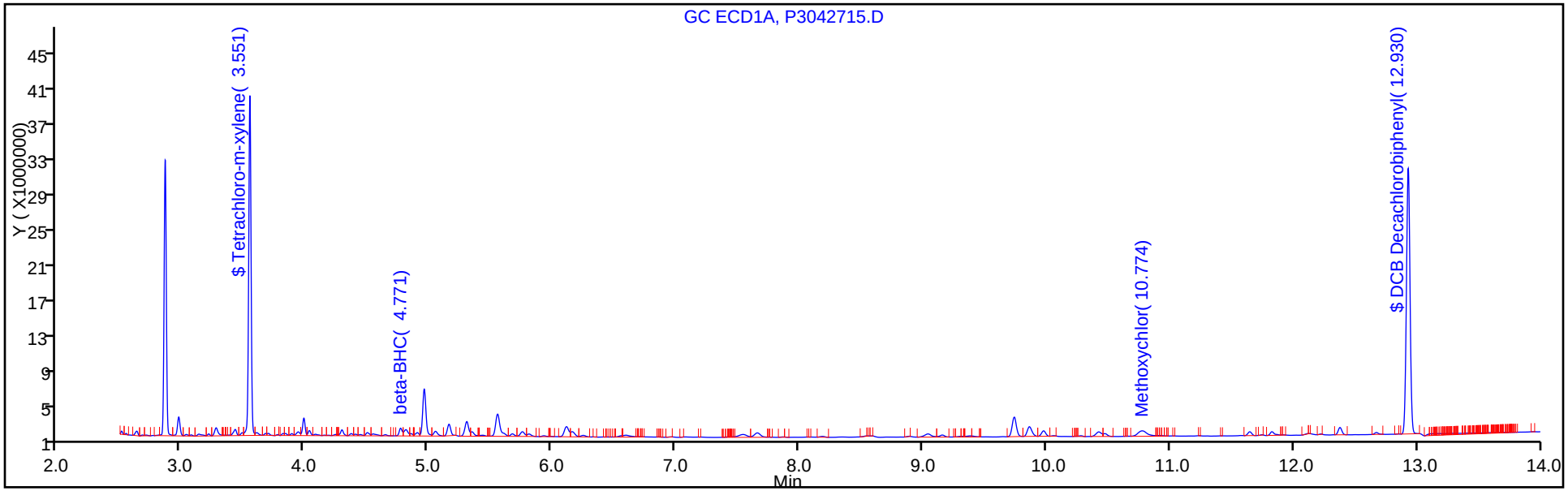
Report Date: 28-Apr-2015 08:11:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

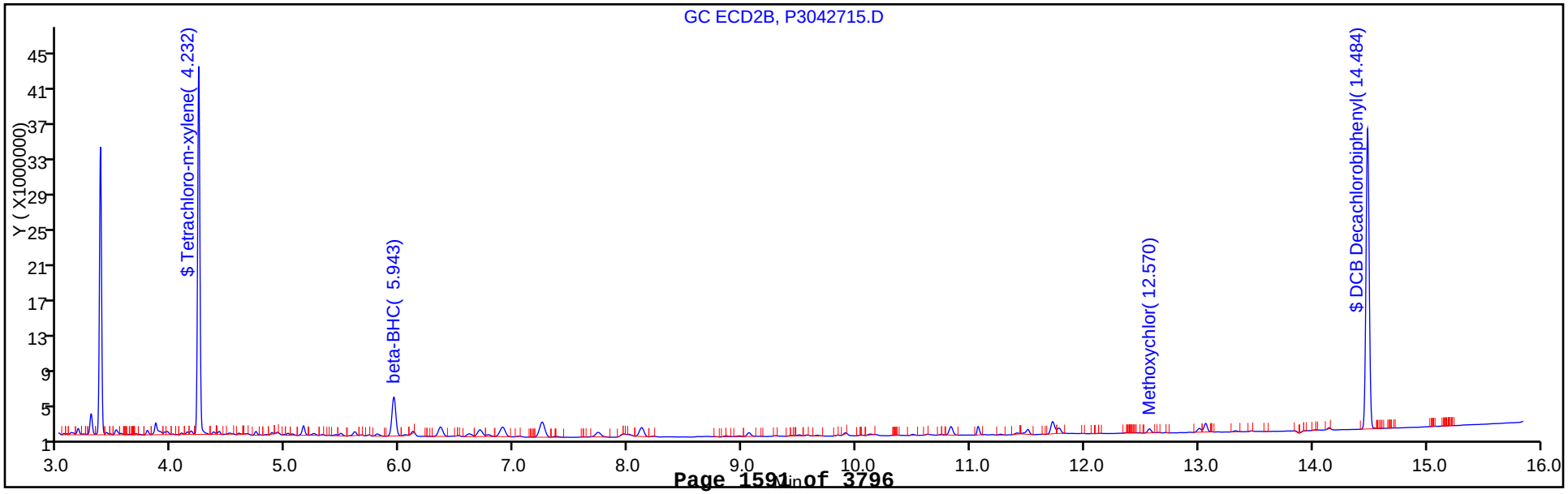
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042715.D

Injection Date:	27-Apr-2015 16:16:18	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-177491/3-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176509/3-A

Matrix: Water | Lab File ID: P3041618.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/15/2015 09:05

Sample wt/vol: 1000(mL) | Date Analyzed: 04/16/2015 20:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.579		0.050	0.050	0.018
72-55-9	4,4'-DDE	0.518		0.050	0.050	0.012
50-29-3	4,4'-DDT	0.561		0.050	0.050	0.017
309-00-2	Aldrin	0.452		0.050	0.050	0.013
319-84-6	alpha-BHC	0.496		0.050	0.050	0.014
5103-71-9	alpha-Chlordane	0.482		0.050	0.050	0.012
319-85-7	beta-BHC	0.476		0.050	0.050	0.018
319-86-8	delta-BHC	0.511		0.050	0.050	0.029
60-57-1	Dieldrin	0.506		0.050	0.050	0.013
959-98-8	Endosulfan I	0.358		0.050	0.050	0.016
33213-65-9	Endosulfan II	0.399		0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	0.487		0.050	0.050	0.015
72-20-8	Endrin	0.530		0.050	0.050	0.013
7421-93-4	Endrin aldehyde	0.479		0.050	0.050	0.018
53494-70-5	Endrin ketone	0.458		0.050	0.050	0.016
58-89-9	gamma-BHC (Lindane)	0.498		0.050	0.050	0.013
5103-74-2	gamma-Chlordane	0.491		0.050	0.050	0.013
76-44-8	Heptachlor	0.509		0.050	0.050	0.014
1024-57-3	Heptachlor epoxide	0.485		0.050	0.050	0.015
72-43-5	Methoxychlor	0.534		0.10	0.050	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92		30-135
877-09-8	Tetrachloro-m-xylene	91		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041618.D
Lims ID: LCS 240-176509/3-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Apr-2015 20:19:57 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-018
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.563	-0.004	35766223	40.0	36.4	
2	4.239	4.240	-0.001	39799371	40.0	35.3	
						RPD = 2.93	
4 alpha-BHC							
1	4.254	4.258	-0.004	171946221	100.0	99.3	
2	5.133	5.134	-0.001	191833412	100.0	98.0	
						RPD = 1.31	
5 gamma-BHC (Lindane)							
1	4.642	4.646	-0.004	153823780	100.0	99.6	
2	5.758	5.758	0.000	173468495	100.0	98.0	
						RPD = 1.63	
6 beta-BHC							
1	4.779	4.784	-0.005	59908536	100.0	95.1	
2	5.955	5.957	-0.002	69084908	100.0	89.9	
						RPD = 5.63	
7 delta-BHC							
1	5.001	5.007	-0.006	153463879	100.0	102.1	
2	6.579	6.581	-0.002	169966058	100.0	95.8	
						RPD = 6.38	
9 Heptachlor							
1	5.288	5.293	-0.005	148599961	100.0	101.8	
2	6.663	6.663	0.000	165548455	100.0	97.9	
						RPD = 3.91	
10 Aldrin							
1	5.753	5.759	-0.006	132299365	100.0	90.5	
2	7.468	7.469	-0.001	158046822	100.0	94.5	
						RPD = 4.34	
12 Heptachlor epoxide							
1	7.030	7.036	-0.006	126574466	100.0	97.1	
2	8.897	8.898	-0.001	138005807	100.0	96.1	
						RPD = 0.997	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
13 gamma-Chlordane							
1	7.345	7.352	-0.007	132574019	100.0	98.2	
2	9.291	9.291	0.000	139385270	100.0	94.7	
						RPD = 3.54	
14 alpha-Chlordane							
1	7.692	7.698	-0.006	129044274	100.0	96.5	
2	9.589	9.589	0.000	134281756	100.0	94.5	
						RPD = 2.02	
15 Endosulfan I							
1	7.965	7.971	-0.006	88011110	100.0	71.7	
2	9.657	9.658	-0.001	93482983	100.0	70.7	
						RPD = 1.35	
16 4,4'-DDE							
1	8.060	8.068	-0.008	122797281	100.0	103.7	
2	10.016	10.016	0.000	130561543	100.0	98.9	
						RPD = 4.72	
17 Dieldrin							
1	8.518	8.521	-0.003	132437332	100.0	101.3	
2	10.172	10.172	0.000	136183688	100.0	99.5	
						RPD = 1.73	
18 Endrin							
1	8.968	8.973	-0.005	122082479	100.0	106.0	
2	10.687	10.685	0.002	123801443	100.0	102.7	
						RPD = 3.20	
20 4,4'-DDD							
1	9.324	9.334	-0.010	100740349	100.0	115.7	
2	11.007	11.009	-0.002	104095321	100.0	106.4	
						RPD = 8.44	
21 Endosulfan II							
1	9.417	9.422	-0.005	92361996	100.0	79.8	
2	11.053	11.055	-0.002	93630150	100.0	80.1	
						RPD = 0.29	
23 4,4'-DDT							
1	9.842	9.847	-0.005	107259190	100.0	112.3	
2	11.490	11.491	-0.001	104674314	100.0	104.9	
						RPD = 6.82	
25 Endrin aldehyde							
1	10.212	10.215	-0.003	85309278	100.0	95.8	
2	11.612	11.613	-0.001	87821457	100.0	94.0	
						RPD = 1.81	
27 Methoxychlor							
1	10.792	10.796	-0.004	48942795	100.0	106.8	
2	12.556	12.557	-0.001	51345172	100.0	105.0	
						RPD = 1.75	
28 Endosulfan sulfate							
1	10.936	10.939	-0.003	97050076	100.0	97.4	
2	12.034	12.034	0.000	101886953	100.0	96.2	
						RPD = 1.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Endrin ketone							
1	11.335	11.338	-0.003	111963174	100.0	91.6	
2	12.778	12.779	-0.001	111099258	100.0	90.5	
						RPD = 1.26	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.943	-0.005	34553627	40.0	36.9	
2	14.494	14.496	-0.002	37938486	40.0	37.3	
						RPD = 1.00	

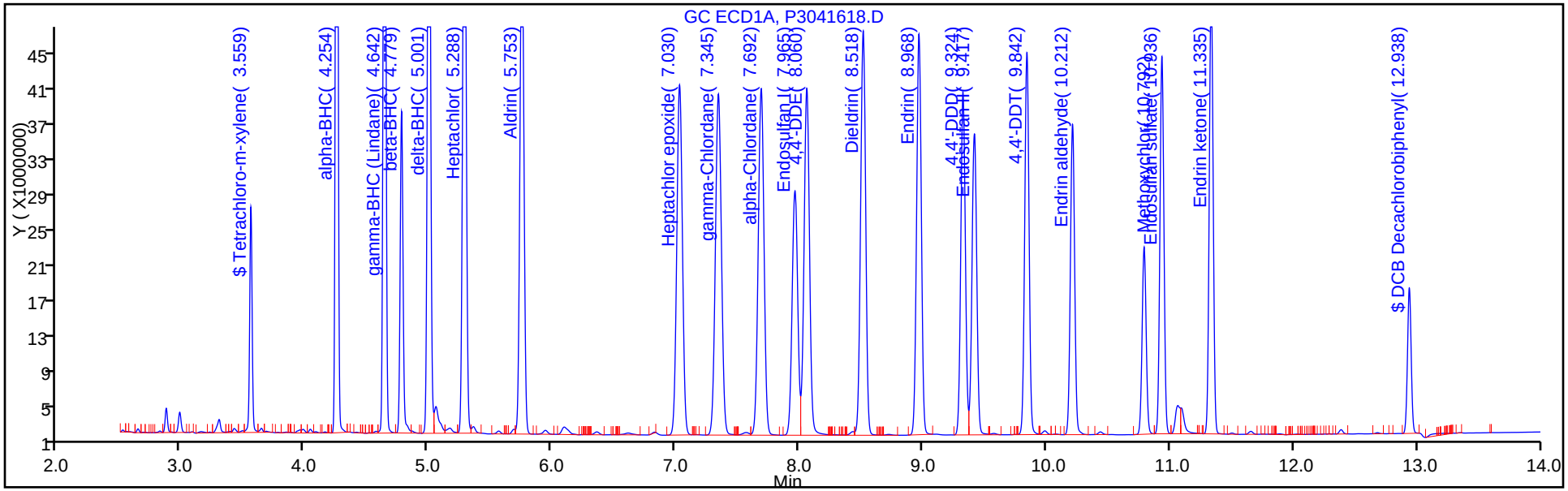
Report Date: 17-Apr-2015 08:37:54 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

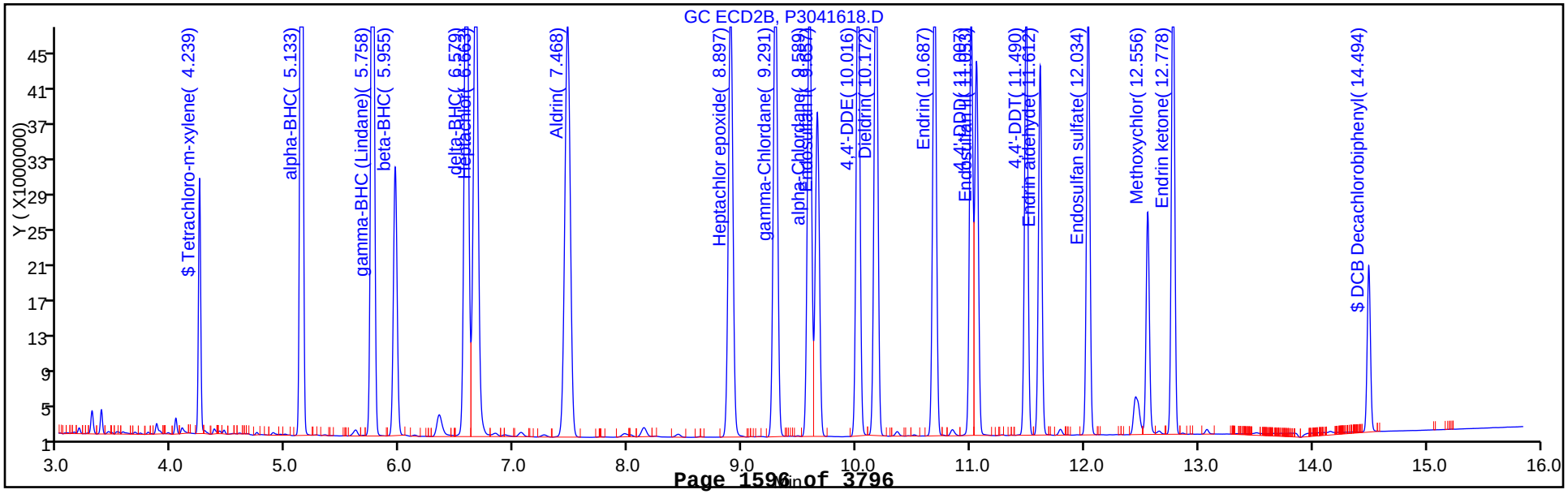
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041618.D

Injection Date:	16-Apr-2015 20:19:57	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-176509/3-A			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176509/3-A

Matrix: Water Lab File ID: P3041618.D

Analysis Method: 8081A Date Collected:

Extraction Method: 3520C Date Extracted: 04/15/2015 09:05

Sample wt/vol: 1000(mL) Date Analyzed: 04/16/2015 20:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	93		30-135
877-09-8	Tetrachloro-m-xylene	88		25-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041618.D
Lims ID: LCS 240-176509/3-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Apr-2015 20:19:57 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-018
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.563	-0.004	35766223	40.0	36.4	
2	4.239	4.240	-0.001	39799371	40.0	35.3	
						RPD = 2.93	
4 alpha-BHC							
1	4.254	4.258	-0.004	171946221	100.0	99.3	
2	5.133	5.134	-0.001	191833412	100.0	98.0	
						RPD = 1.31	
5 gamma-BHC (Lindane)							
1	4.642	4.646	-0.004	153823780	100.0	99.6	
2	5.758	5.758	0.000	173468495	100.0	98.0	
						RPD = 1.63	
6 beta-BHC							
1	4.779	4.784	-0.005	59908536	100.0	95.1	
2	5.955	5.957	-0.002	69084908	100.0	89.9	
						RPD = 5.63	
7 delta-BHC							
1	5.001	5.007	-0.006	153463879	100.0	102.1	
2	6.579	6.581	-0.002	169966058	100.0	95.8	
						RPD = 6.38	
9 Heptachlor							
1	5.288	5.293	-0.005	148599961	100.0	101.8	
2	6.663	6.663	0.000	165548455	100.0	97.9	
						RPD = 3.91	
10 Aldrin							
1	5.753	5.759	-0.006	132299365	100.0	90.5	
2	7.468	7.469	-0.001	158046822	100.0	94.5	
						RPD = 4.34	
12 Heptachlor epoxide							
1	7.030	7.036	-0.006	126574466	100.0	97.1	
2	8.897	8.898	-0.001	138005807	100.0	96.1	
						RPD = 0.997	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
13 gamma-Chlordane							
1	7.345	7.352	-0.007	132574019	100.0	98.2	
2	9.291	9.291	0.000	139385270	100.0	94.7	
						RPD = 3.54	
14 alpha-Chlordane							
1	7.692	7.698	-0.006	129044274	100.0	96.5	
2	9.589	9.589	0.000	134281756	100.0	94.5	
						RPD = 2.02	
15 Endosulfan I							
1	7.965	7.971	-0.006	88011110	100.0	71.7	
2	9.657	9.658	-0.001	93482983	100.0	70.7	
						RPD = 1.35	
16 4,4'-DDE							
1	8.060	8.068	-0.008	122797281	100.0	103.7	
2	10.016	10.016	0.000	130561543	100.0	98.9	
						RPD = 4.72	
17 Dieldrin							
1	8.518	8.521	-0.003	132437332	100.0	101.3	
2	10.172	10.172	0.000	136183688	100.0	99.5	
						RPD = 1.73	
18 Endrin							
1	8.968	8.973	-0.005	122082479	100.0	106.0	
2	10.687	10.685	0.002	123801443	100.0	102.7	
						RPD = 3.20	
20 4,4'-DDD							
1	9.324	9.334	-0.010	100740349	100.0	115.7	
2	11.007	11.009	-0.002	104095321	100.0	106.4	
						RPD = 8.44	
21 Endosulfan II							
1	9.417	9.422	-0.005	92361996	100.0	79.8	
2	11.053	11.055	-0.002	93630150	100.0	80.1	
						RPD = 0.29	
23 4,4'-DDT							
1	9.842	9.847	-0.005	107259190	100.0	112.3	
2	11.490	11.491	-0.001	104674314	100.0	104.9	
						RPD = 6.82	
25 Endrin aldehyde							
1	10.212	10.215	-0.003	85309278	100.0	95.8	
2	11.612	11.613	-0.001	87821457	100.0	94.0	
						RPD = 1.81	
27 Methoxychlor							
1	10.792	10.796	-0.004	48942795	100.0	106.8	
2	12.556	12.557	-0.001	51345172	100.0	105.0	
						RPD = 1.75	
28 Endosulfan sulfate							
1	10.936	10.939	-0.003	97050076	100.0	97.4	
2	12.034	12.034	0.000	101886953	100.0	96.2	
						RPD = 1.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Endrin ketone							
1	11.335	11.338	-0.003	111963174	100.0	91.6	
2	12.778	12.779	-0.001	111099258	100.0	90.5	
						RPD = 1.26	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.943	-0.005	34553627	40.0	36.9	
2	14.494	14.496	-0.002	37938486	40.0	37.3	
						RPD = 1.00	

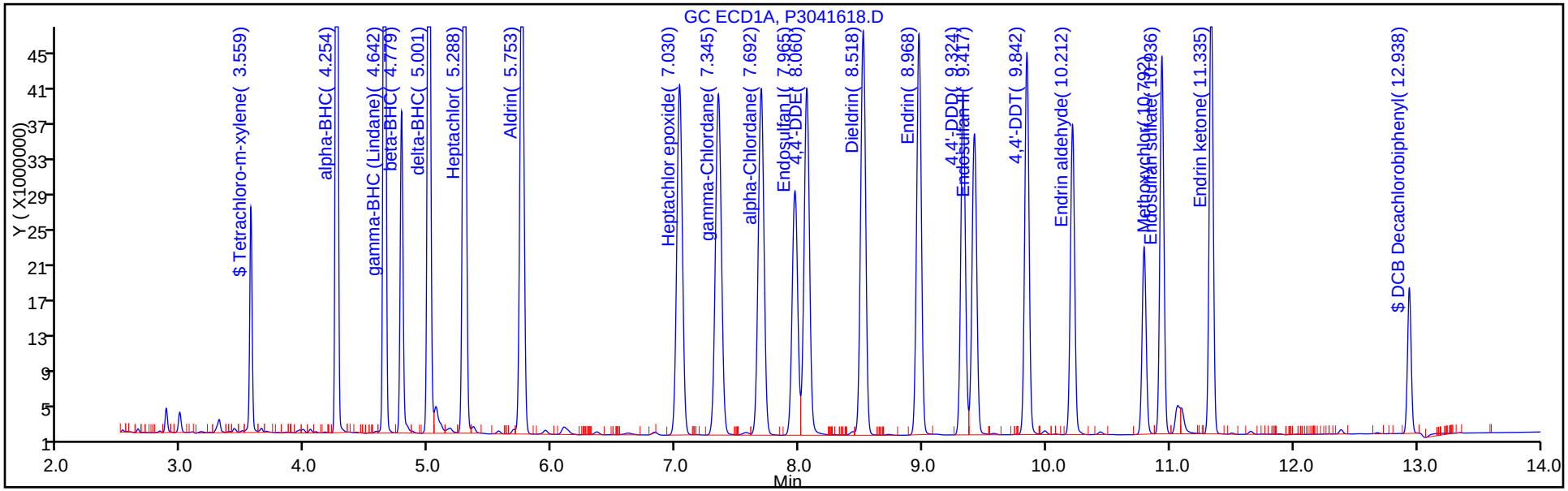
Report Date: 17-Apr-2015 08:37:54 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

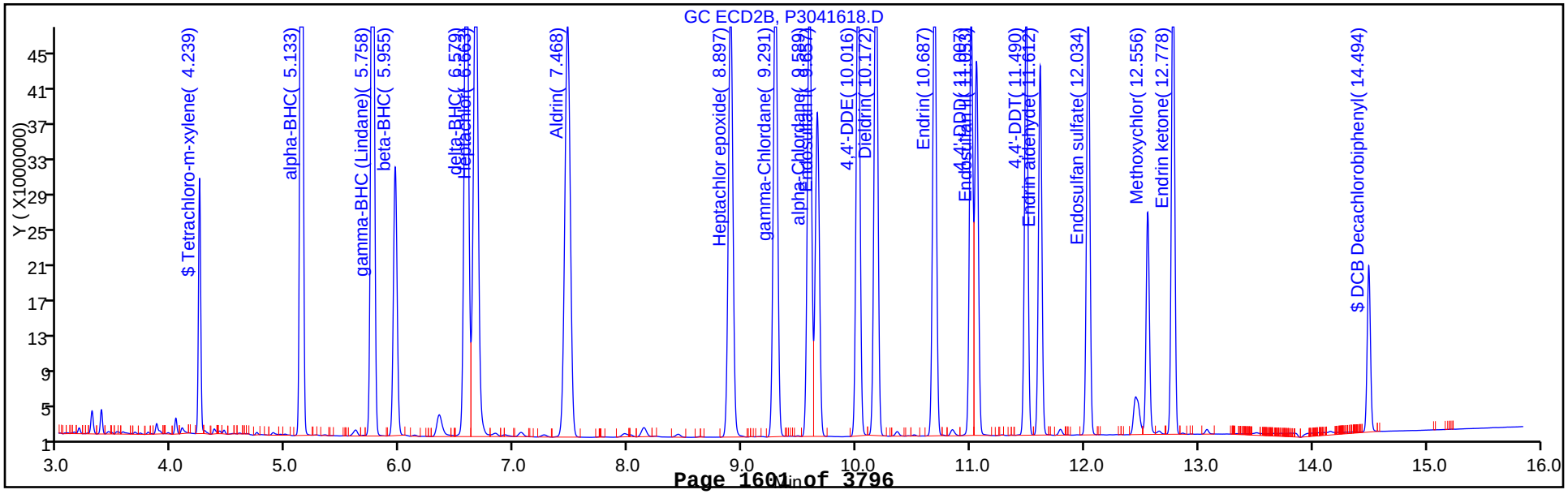
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041618.D

Injection Date:	16-Apr-2015 20:19:57	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-176509/3-A			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176661/6-A

Matrix: Solid | Lab File ID: P3042146.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/16/2015 08:22

Sample wt/vol: 250(mL) | Date Analyzed: 04/22/2015 06:03

Con. Extract Vol.: 3(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	Endrin	0.00208	J D	0.050	0.00060	0.000065
58-89-9	gamma-BHC (Lindane)	0.00186	J D	0.050	0.00060	0.000065
76-44-8	Heptachlor	0.00191	J D	0.050	0.00060	0.000070
1024-57-3	Heptachlor epoxide	0.00195	J D	0.050	0.00060	0.000075
72-43-5	Methoxychlor	0.00347	J D	0.15	0.00060	0.000065

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	102		44-144
877-09-8	Tetrachloro-m-xylene	89		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042146.D
Lims ID: LCS 240-176661/6-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Apr-2015 06:03:01 ALS Bottle#: 46 Worklist Smp#: 46
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 240-0042770-046
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:36:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.554	0.002	11628820	13.3	11.8	
2	4.236	4.235	0.001	13089181	13.3	11.6	
						RPD = 1.79	
5 gamma-BHC (Lindane)							
1	4.639	4.637	0.002	47820614	33.3	31.0	
2	5.752	5.751	0.001	45166031	33.3	25.5	
						RPD = 19.30	
9 Heptachlor							
1	5.284	5.283	0.001	46483894	33.3	31.9	
2	6.654	6.653	0.001	51166242	33.3	30.3	
						RPD = 5.12	
12 Heptachlor epoxide							
1	7.023	7.021	0.002	42461523	33.3	32.6	
2	8.891	8.889	0.002	45505950	33.3	31.7	
						RPD = 2.69	
18 Endrin							
1	8.964	8.962	0.002	39895434	33.3	34.6	
2	10.681	10.680	0.001	39014720	33.3	32.4	
						RPD = 6.83	
27 Methoxychlor							
1	10.790	10.789	0.001	26522473	66.7	57.9	
2	12.553	12.553	0.000	24984801	66.7	51.1	
						RPD = 12.50	
$ 30 DCB Decachlorobiphenyl							
1	12.939	12.938	0.001	12724854	13.3	13.6	
2	14.492	14.493	-0.001	13740257	13.3	13.5	
						RPD = 0.67	

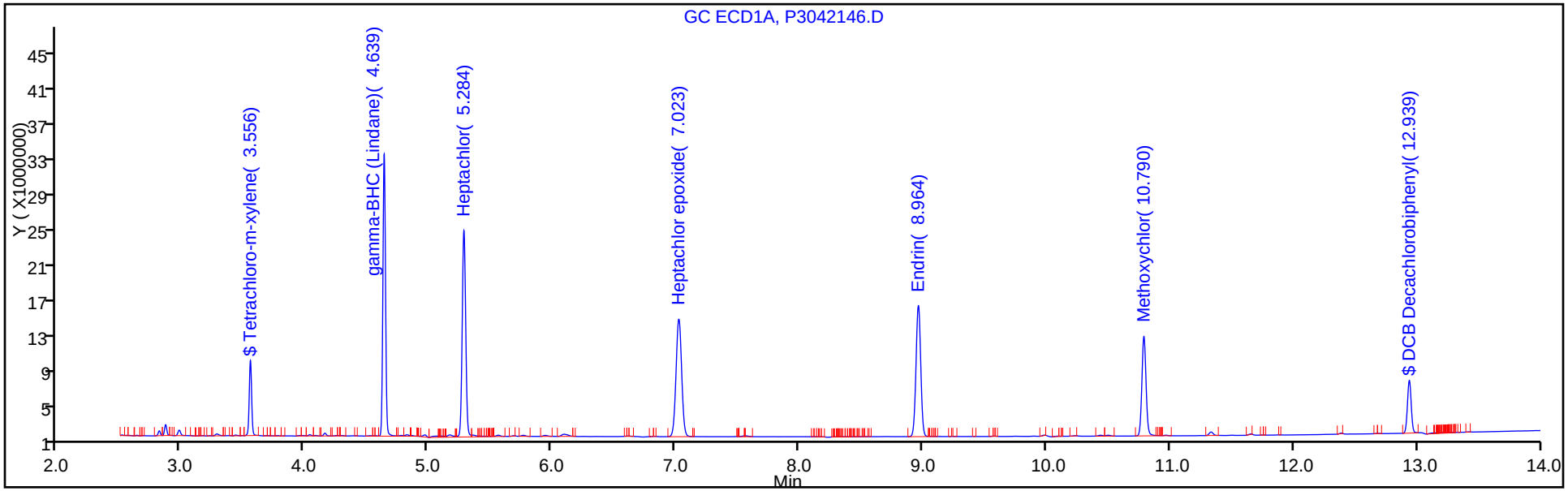
Report Date: 22-Apr-2015 08:58:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

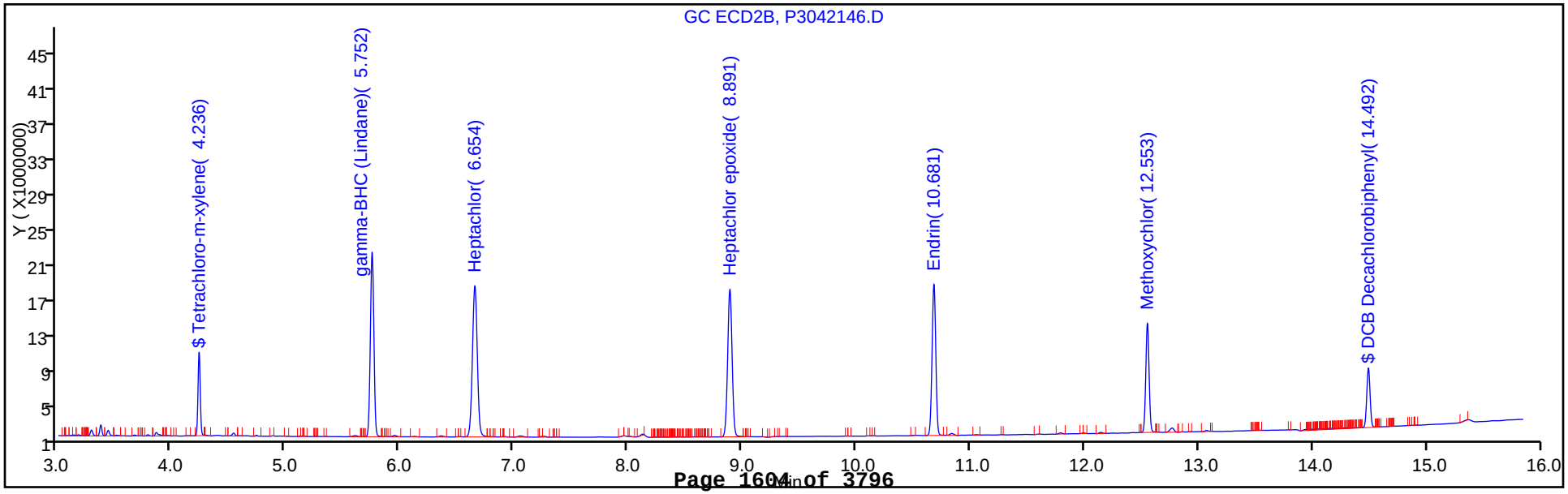
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042146.D

Injection Date:	22-Apr-2015 06:03:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-176661/6-A			Worklist Smp#:	46
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	46
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176661/6-A

Matrix: Solid Lab File ID: P3042146.D

Analysis Method: 8081A Date Collected:

Extraction Method: 3520C Date Extracted: 04/16/2015 08:22

Sample wt/vol: 250(mL) Date Analyzed: 04/22/2015 06:03

Con. Extract Vol.: 3(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		44-144
877-09-8	Tetrachloro-m-xylene	87		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042146.D
Lims ID: LCS 240-176661/6-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Apr-2015 06:03:01 ALS Bottle#: 46 Worklist Smp#: 46
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 240-0042770-046
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:36:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.554	0.002	11628820	13.3	11.8	
2	4.236	4.235	0.001	13089181	13.3	11.6	
						RPD = 1.79	
5 gamma-BHC (Lindane)							
1	4.639	4.637	0.002	47820614	33.3	31.0	
2	5.752	5.751	0.001	45166031	33.3	25.5	
						RPD = 19.30	
9 Heptachlor							
1	5.284	5.283	0.001	46483894	33.3	31.9	
2	6.654	6.653	0.001	51166242	33.3	30.3	
						RPD = 5.12	
12 Heptachlor epoxide							
1	7.023	7.021	0.002	42461523	33.3	32.6	
2	8.891	8.889	0.002	45505950	33.3	31.7	
						RPD = 2.69	
18 Endrin							
1	8.964	8.962	0.002	39895434	33.3	34.6	
2	10.681	10.680	0.001	39014720	33.3	32.4	
						RPD = 6.83	
27 Methoxychlor							
1	10.790	10.789	0.001	26522473	66.7	57.9	
2	12.553	12.553	0.000	24984801	66.7	51.1	
						RPD = 12.50	
$ 30 DCB Decachlorobiphenyl							
1	12.939	12.938	0.001	12724854	13.3	13.6	
2	14.492	14.493	-0.001	13740257	13.3	13.5	
						RPD = 0.67	

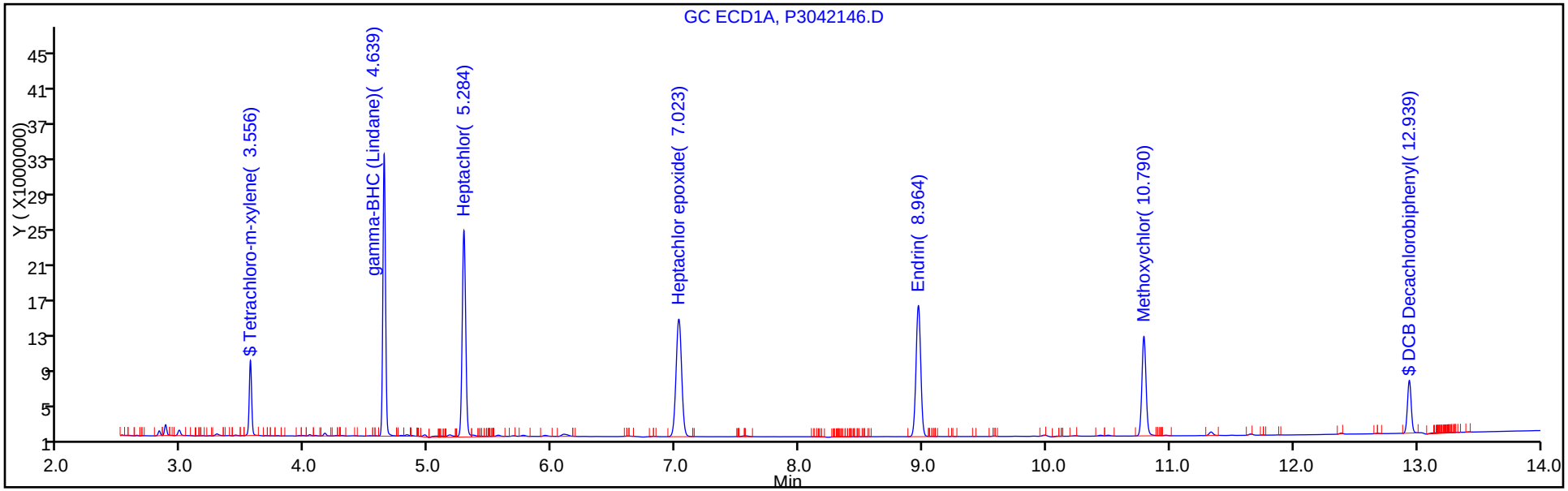
Report Date: 22-Apr-2015 08:58:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

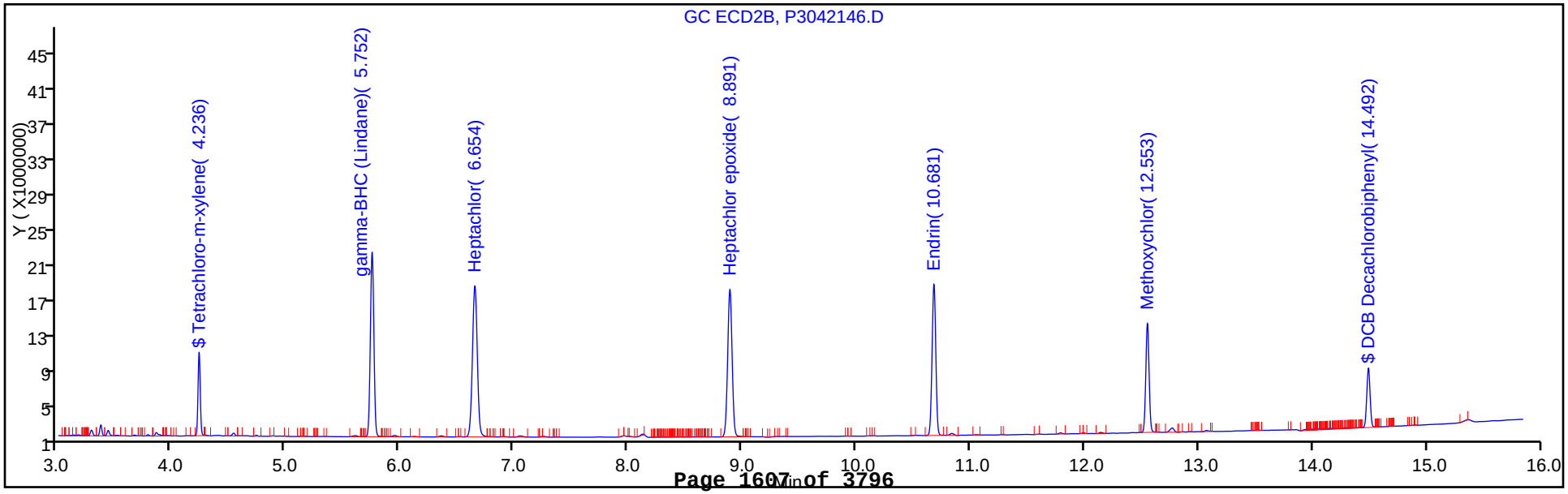
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042146.D

Injection Date:	22-Apr-2015 06:03:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-176661/6-A			Worklist Smp#:	46
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	46
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-177491/4-A

Matrix: Water | Lab File ID: P3042716.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/22/2015 15:15

Sample wt/vol: 250(mL) | Date Analyzed: 04/27/2015 16:39

Con. Extract Vol.: 3(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	Endrin	0.00209	J D	0.050	0.00060	0.000065
58-89-9	gamma-BHC (Lindane)	0.00167	J D	0.050	0.00060	0.000065
76-44-8	Heptachlor	0.00181	J D	0.050	0.00060	0.000070
1024-57-3	Heptachlor epoxide	0.00191	J D	0.050	0.00060	0.000075
72-43-5	Methoxychlor	0.00403	J D	0.15	0.00060	0.000065

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	108		44-144
877-09-8	Tetrachloro-m-xylene	72		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042716.D
Lims ID: LCS 240-177491/4-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Apr-2015 16:39:54 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 240-0042968-016
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.550	0.001	9480029	13.3	9.64	
2	4.231	4.231	0.000	10690329	13.3	9.49	
						RPD = 1.60	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	43038078	33.3	27.9	
2	5.745	5.744	0.001	40648250	33.3	23.0	
						RPD = 19.30	
9 Heptachlor							
1	5.278	5.276	0.002	44077626	33.3	30.2	
2	6.645	6.645	0.000	47319520	33.3	28.0	
						RPD = 7.61	
12 Heptachlor epoxide							
1	7.013	7.013	0.000	41543459	33.3	31.9	
2	8.882	8.882	0.000	43255785	33.3	30.1	
						RPD = 5.57	
18 Endrin							
1	8.954	8.955	-0.001	40041854	33.3	34.8	
2	10.673	10.672	0.001	39295638	33.3	32.6	
						RPD = 6.48	
27 Methoxychlor							
1	10.782	10.785	-0.003	30764056	66.7	67.1	
2	12.545	12.546	-0.001	29378195	66.7	60.1	
						RPD = 11.14	
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	13534819	13.3	14.5	
2	14.485	14.484	0.001	14247070	13.3	14.0	
						RPD = 3.22	

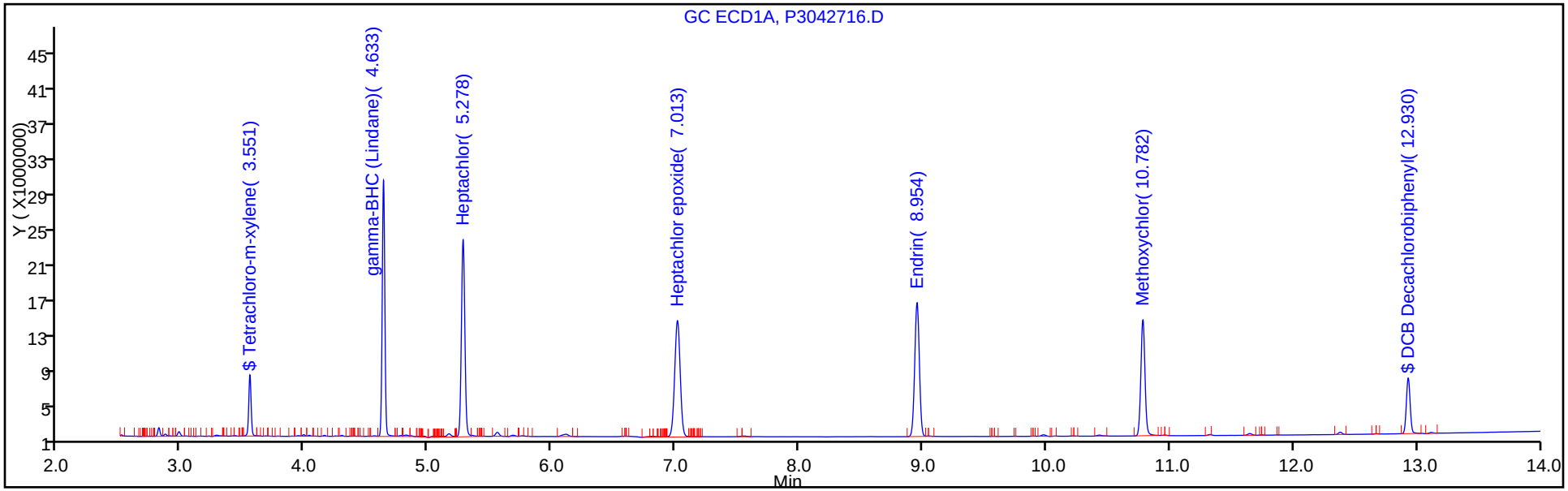
Report Date: 28-Apr-2015 08:11:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

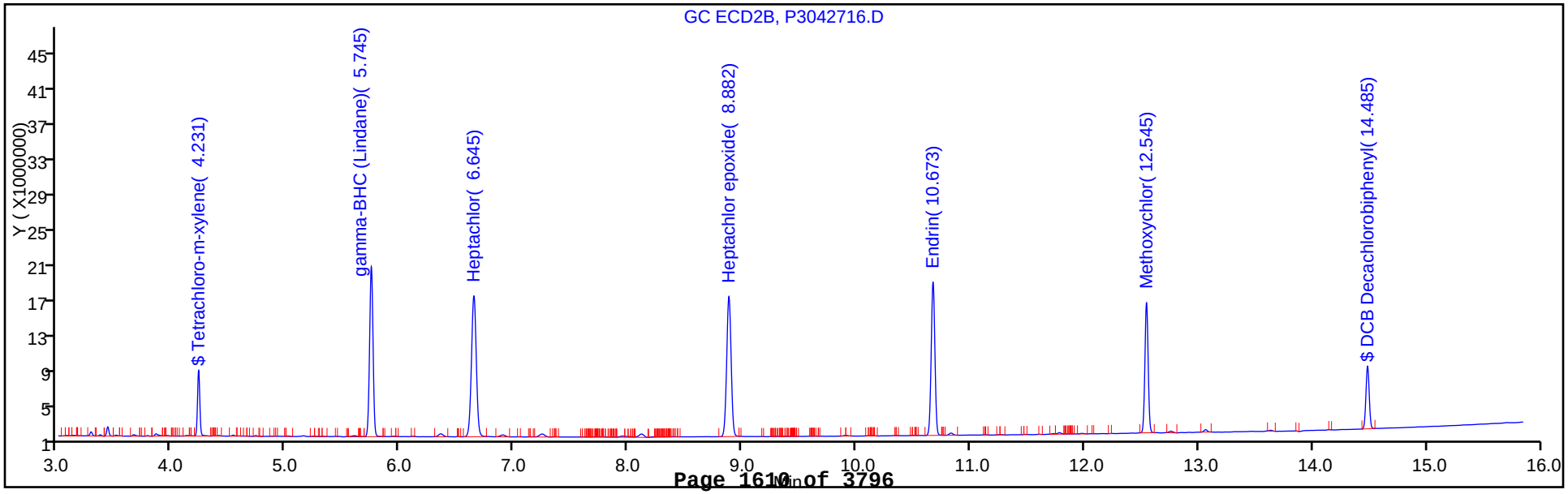
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042716.D

Injection Date:	27-Apr-2015 16:39:54	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-177491/4-A			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-177491/4-A

Matrix: Water Lab File ID: P3042716.D

Analysis Method: 8081A Date Collected:

Extraction Method: 3520C Date Extracted: 04/22/2015 15:15

Sample wt/vol: 250(mL) Date Analyzed: 04/27/2015 16:39

Con. Extract Vol.: 3(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	105		44-144
877-09-8	Tetrachloro-m-xylene	71		44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042716.D
Lims ID: LCS 240-177491/4-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Apr-2015 16:39:54 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 240-0042968-016
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.550	0.001	9480029	13.3	9.64	
2	4.231	4.231	0.000	10690329	13.3	9.49	
						RPD = 1.60	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	43038078	33.3	27.9	
2	5.745	5.744	0.001	40648250	33.3	23.0	
						RPD = 19.30	
9 Heptachlor							
1	5.278	5.276	0.002	44077626	33.3	30.2	
2	6.645	6.645	0.000	47319520	33.3	28.0	
						RPD = 7.61	
12 Heptachlor epoxide							
1	7.013	7.013	0.000	41543459	33.3	31.9	
2	8.882	8.882	0.000	43255785	33.3	30.1	
						RPD = 5.57	
18 Endrin							
1	8.954	8.955	-0.001	40041854	33.3	34.8	
2	10.673	10.672	0.001	39295638	33.3	32.6	
						RPD = 6.48	
27 Methoxychlor							
1	10.782	10.785	-0.003	30764056	66.7	67.1	
2	12.545	12.546	-0.001	29378195	66.7	60.1	
						RPD = 11.14	
$ 30 DCB Decachlorobiphenyl							
1	12.930	12.930	0.000	13534819	13.3	14.5	
2	14.485	14.484	0.001	14247070	13.3	14.0	
						RPD = 3.22	

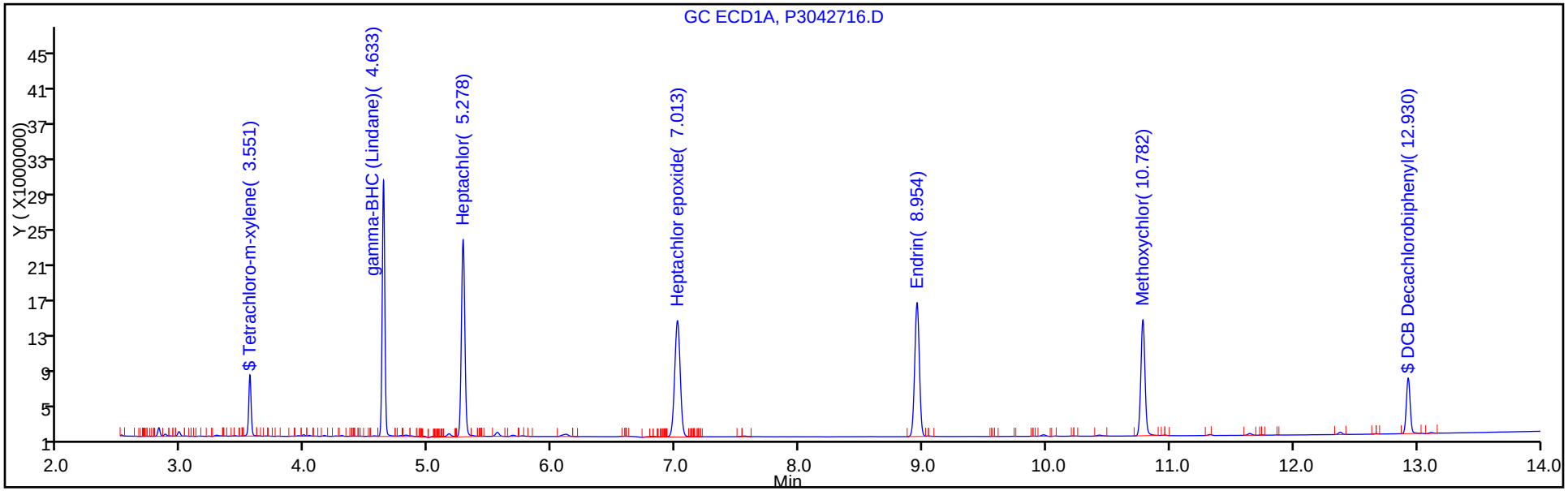
Report Date: 28-Apr-2015 08:11:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

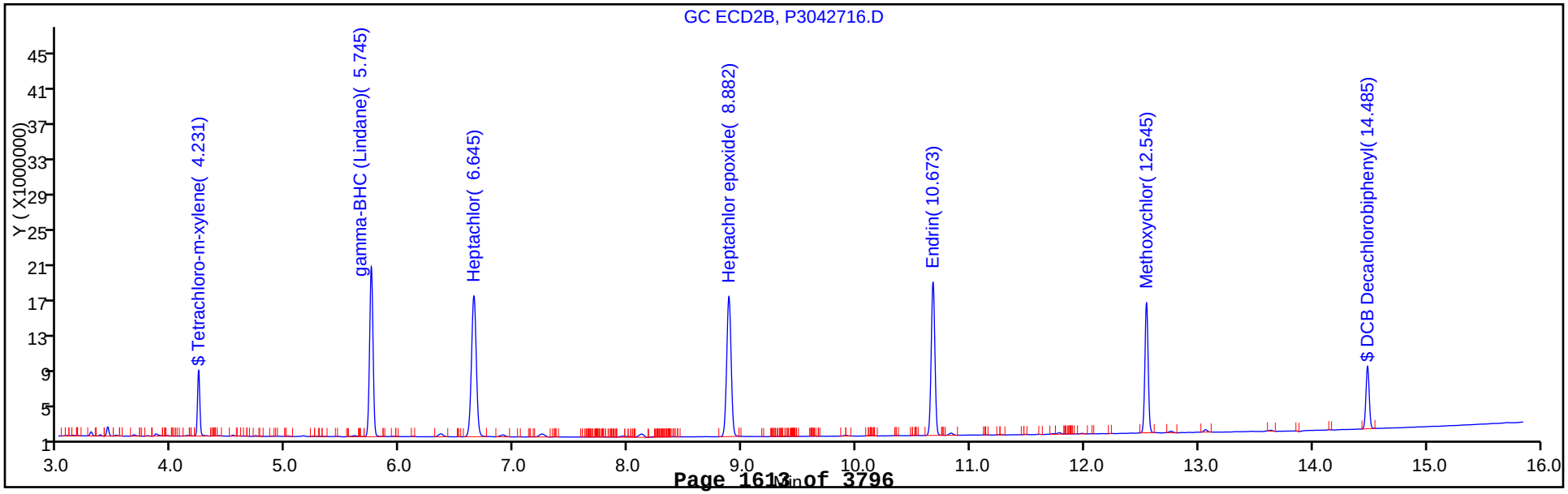
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042716.D

Injection Date:	27-Apr-2015 16:39:54	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-177491/4-A			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176694/15

Matrix: Water Lab File ID: P3041615.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/16/2015 19:10

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	168		2.0	1.0	0.20

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 16-Apr-2015 19:10:08 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-015
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:21:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.563					ND	
2	4.240						
3 Hexachlorobenzene							
1	4.035					ND	
2	4.885						
2 Diallate							
1	4.131					ND	
1	4.297						
2	4.837						
2	4.999						
4 alpha-BHC							
1	4.258					ND	
2	5.134						
5 gamma-BHC (Lindane)							
1	4.646					ND	
2	5.758						
6 beta-BHC							
1	4.784					ND	
2	5.957						
7 delta-BHC							
1	5.007					ND	
2	6.581						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1		5.293				ND	
2		6.663					
10 Aldrin							
1		5.759				ND	
2		7.469					
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1		7.036				ND	
2		8.898					
13 gamma-Chlordane							
1		7.352				ND	
2		9.291					
14 alpha-Chlordane							
1		7.698				ND	
2		9.589					
15 Endosulfan I							
1		7.971				ND	
2		9.658					
16 4,4'-DDE							
1		8.068				ND	
2		10.016					
17 Dieldrin							
1		8.521				ND	
2		10.172					
18 Endrin							
1		8.973				ND	
2		10.685					
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1		9.334				ND	
2		11.009					
21 Endosulfan II							
1		9.422				ND	
2		11.055					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							M
1	9.624	9.626	-0.002	6598903	200.0	174.4	M
1	10.085	10.087	-0.002	6514533	200.0	177.8	M
1	10.399	10.399	0.000	3895214	200.0	166.8	M
1	10.740	10.741	-0.001	6057114	200.0	182.6	M
1	10.847	10.847	0.000	4496002	200.0	139.1	M
		Average of Peak Amounts =				168.1	
2	11.032	11.033	-0.001	9733306	200.0	187.8	M
2	11.199	11.200	-0.001	9735686	200.0	191.0	M
2	11.624	11.624	0.000	6397596	200.0	179.5	M
2	12.359	12.359	0.000	7278698	200.0	159.5	M
2	12.447	12.449	-0.002	2590839	200.0	166.4	M
		Average of Peak Amounts =				176.9	
						RPD = 5.06	
23 4,4'-DDT							
1		9.847				ND	
2		11.491					
25 Endrin aldehyde							
1		10.215				ND	
2		11.613					
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1		10.796				ND	
2		12.557					
28 Endosulfan sulfate							
1		10.939				ND	
2		12.034					
29 Endrin ketone							
1		11.338				ND	
2		12.779					
$ 30 DCB Decachlorobiphenyl							
1		12.943				ND	
2		14.496					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

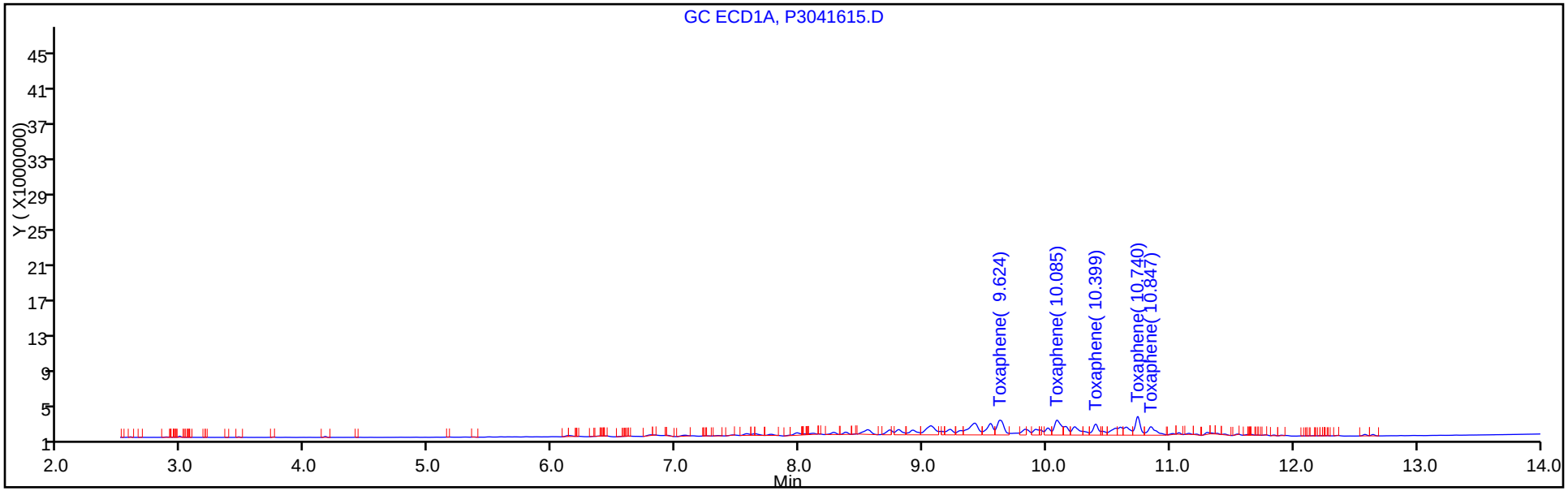
Report Date: 17-Apr-2015 08:37:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

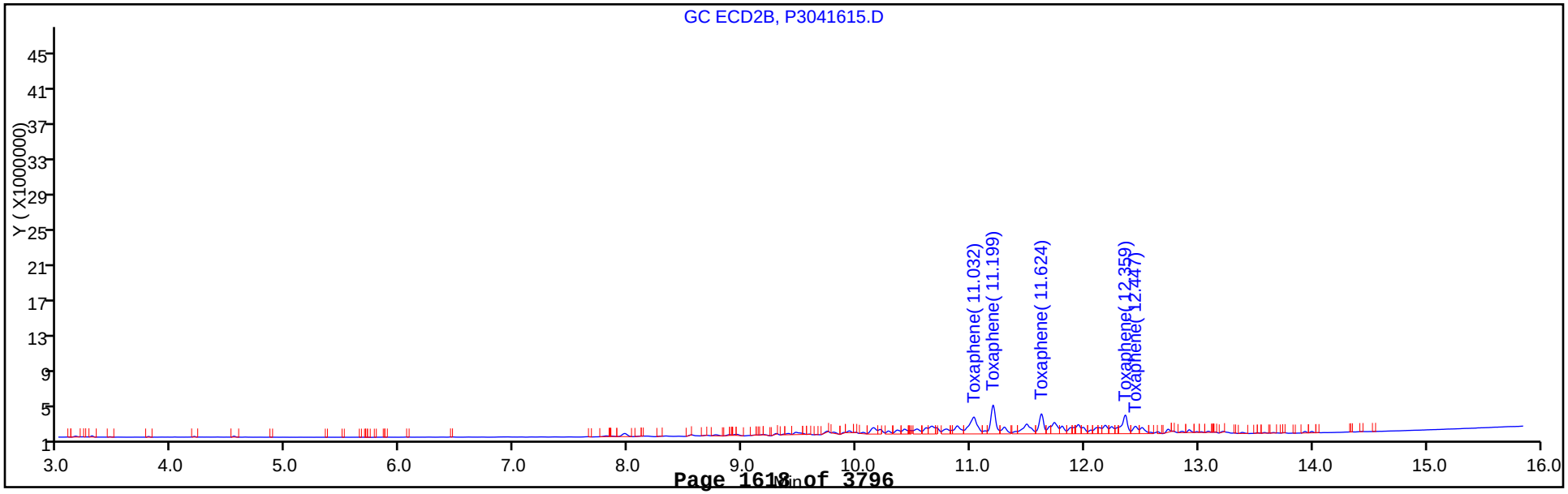
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D

Injection Date:	16-Apr-2015 19:10:08	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2015 08:37:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D

Injection Date: 16-Apr-2015 19:10:08 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 15 Worklist Smp#: 15

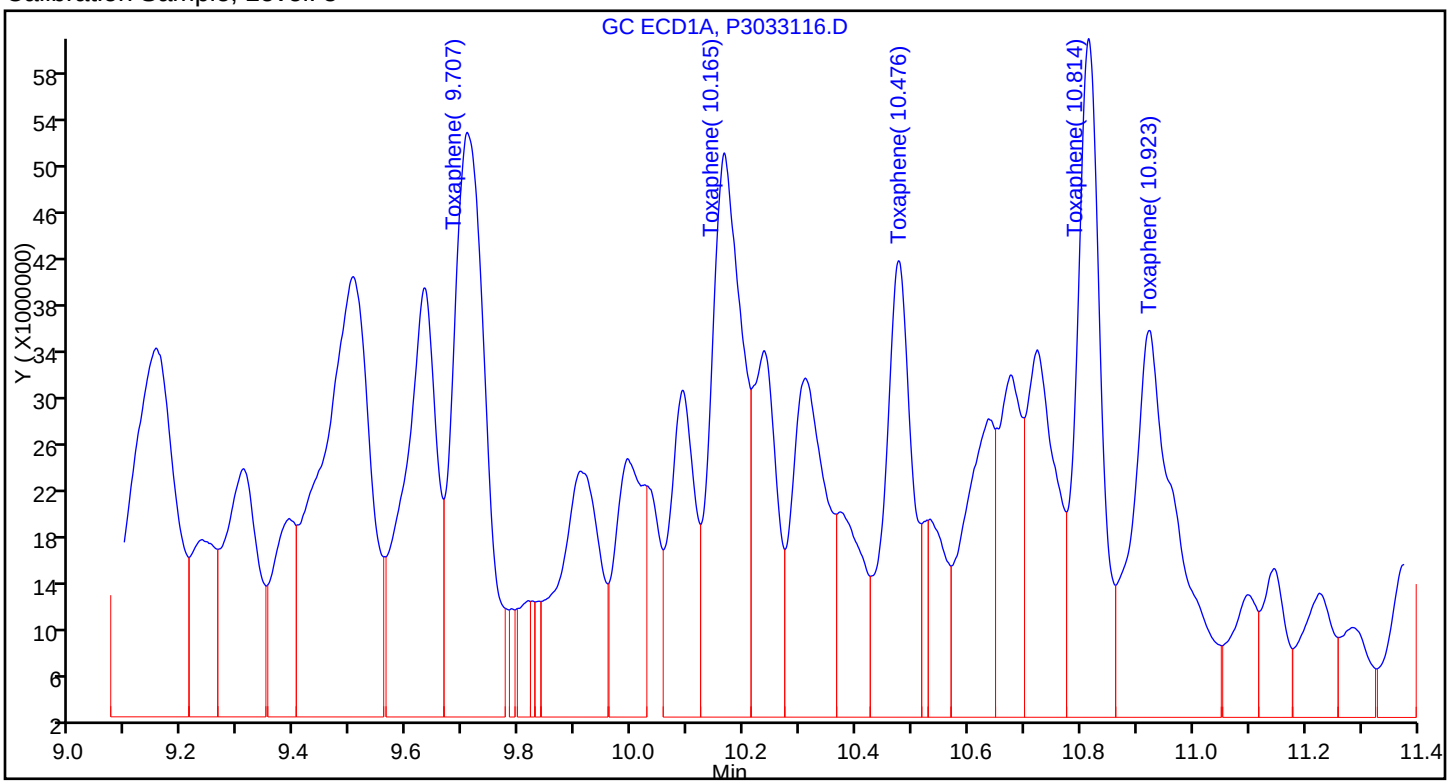
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

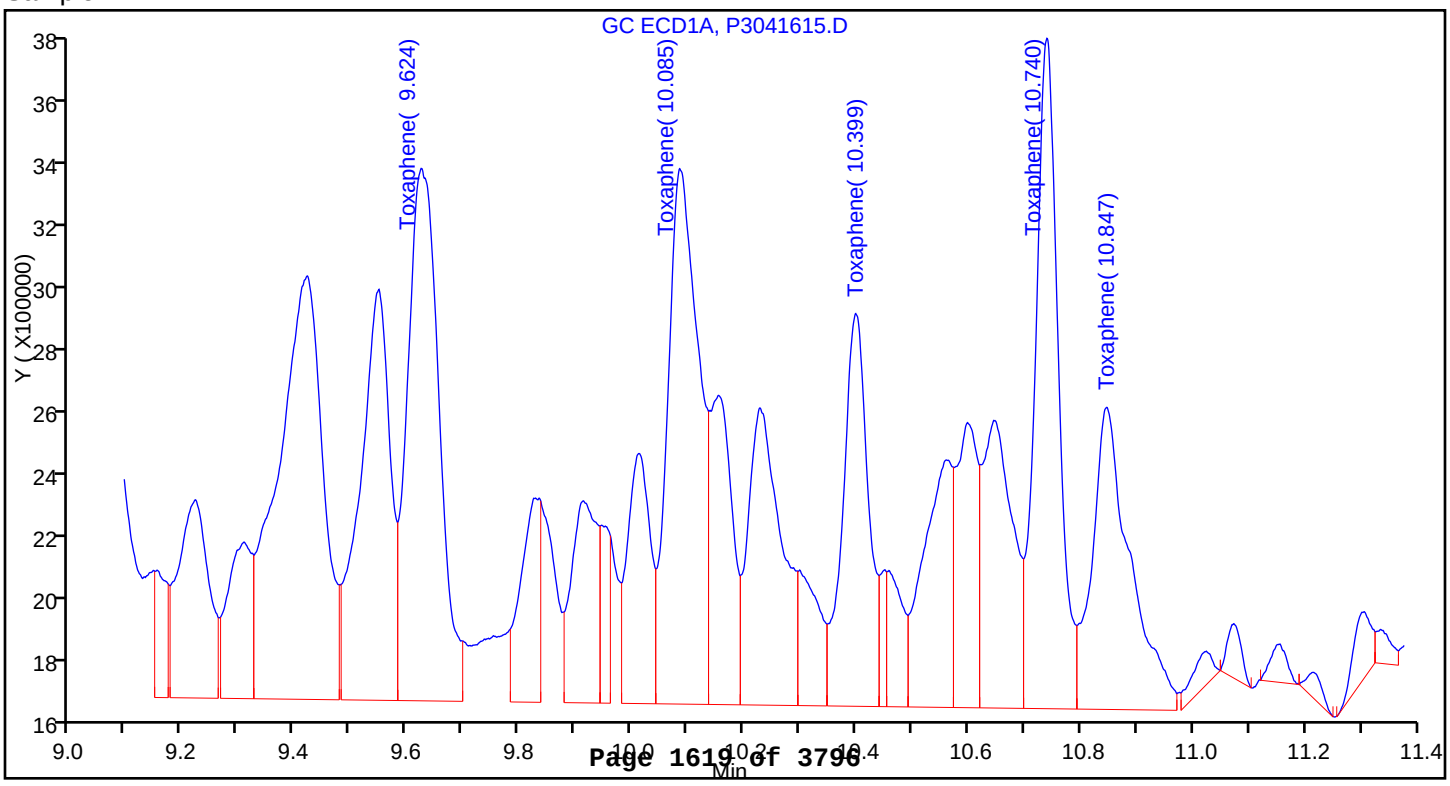
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 17-Apr-2015 08:37:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D

Injection Date: 16-Apr-2015 19:10:08 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

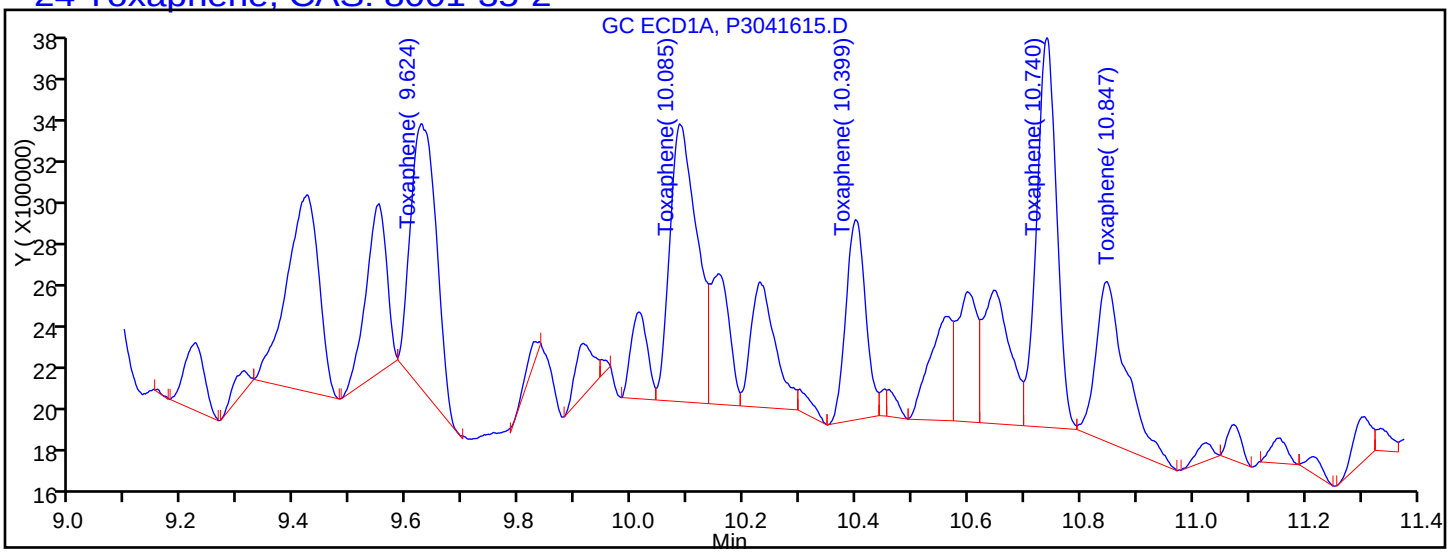
Operator ID: 430893 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

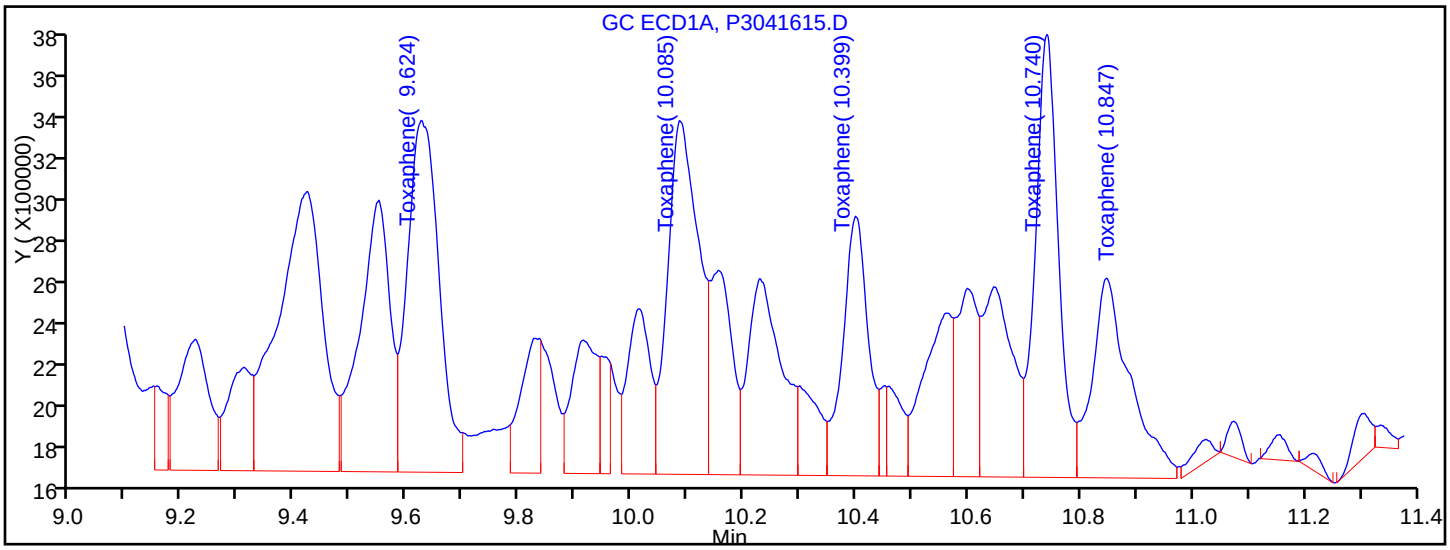
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.624	Response = 4078179	M
RT = 10.085	Response = 4473301	M
RT = 10.399	Response = 2340096	M
RT = 10.740	Response = 4614894	M
RT = 10.847	Response = 2903462	M



Manual Integration Results

RT = 9.624	Response = 6598903	M
RT = 10.085	Response = 6514533	M
RT = 10.399	Response = 3895214	M
RT = 10.740	Response = 6057114	M
RT = 10.847	Response = 4496002	M

Reviewer: matthewsb, 17-Apr-2015 08:21:52

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176694/15

Matrix: Water Lab File ID: P3041615.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/16/2015 19:10

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*177*		*2.0*	1.0	*0.20*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 16-Apr-2015 19:10:08 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-015
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:21:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.563					ND	
2	4.240						
3 Hexachlorobenzene							
1	4.035					ND	
2	4.885						
2 Diallate							
1	4.131					ND	
1	4.297						
2	4.837						
2	4.999						
4 alpha-BHC							
1	4.258					ND	
2	5.134						
5 gamma-BHC (Lindane)							
1	4.646					ND	
2	5.758						
6 beta-BHC							
1	4.784					ND	
2	5.957						
7 delta-BHC							
1	5.007					ND	
2	6.581						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1		5.293				ND	
2		6.663					
10 Aldrin							
1		5.759				ND	
2		7.469					
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1		7.036				ND	
2		8.898					
13 gamma-Chlordane							
1		7.352				ND	
2		9.291					
14 alpha-Chlordane							
1		7.698				ND	
2		9.589					
15 Endosulfan I							
1		7.971				ND	
2		9.658					
16 4,4'-DDE							
1		8.068				ND	
2		10.016					
17 Dieldrin							
1		8.521				ND	
2		10.172					
18 Endrin							
1		8.973				ND	
2		10.685					
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1		9.334				ND	
2		11.009					
21 Endosulfan II							
1		9.422				ND	
2		11.055					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							M
1	9.624	9.626	-0.002	6598903	200.0	174.4	M
1	10.085	10.087	-0.002	6514533	200.0	177.8	M
1	10.399	10.399	0.000	3895214	200.0	166.8	M
1	10.740	10.741	-0.001	6057114	200.0	182.6	M
1	10.847	10.847	0.000	4496002	200.0	139.1	M
		Average of Peak Amounts =				168.1	
2	11.032	11.033	-0.001	9733306	200.0	187.8	M
2	11.199	11.200	-0.001	9735686	200.0	191.0	M
2	11.624	11.624	0.000	6397596	200.0	179.5	M
2	12.359	12.359	0.000	7278698	200.0	159.5	M
2	12.447	12.449	-0.002	2590839	200.0	166.4	M
		Average of Peak Amounts =				176.9	
						RPD = 5.06	
23 4,4'-DDT							
1		9.847				ND	
2		11.491					
25 Endrin aldehyde							
1		10.215				ND	
2		11.613					
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1		10.796				ND	
2		12.557					
28 Endosulfan sulfate							
1		10.939				ND	
2		12.034					
29 Endrin ketone							
1		11.338				ND	
2		12.779					
$ 30 DCB Decachlorobiphenyl							
1		12.943				ND	
2		14.496					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

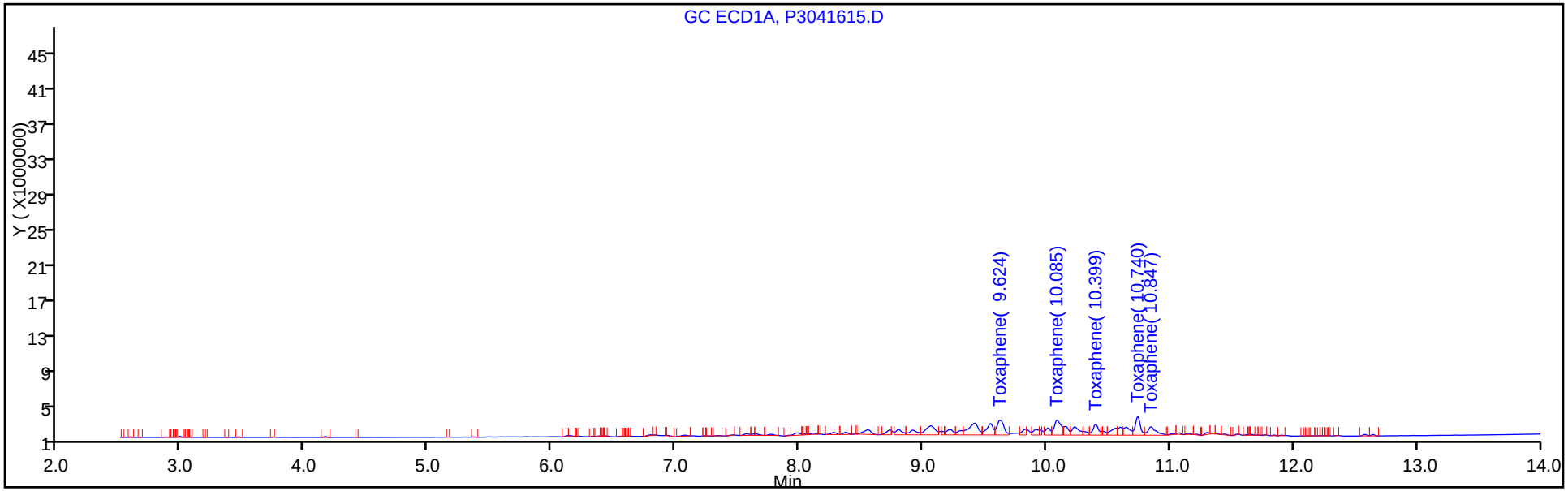
Report Date: 17-Apr-2015 08:37:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

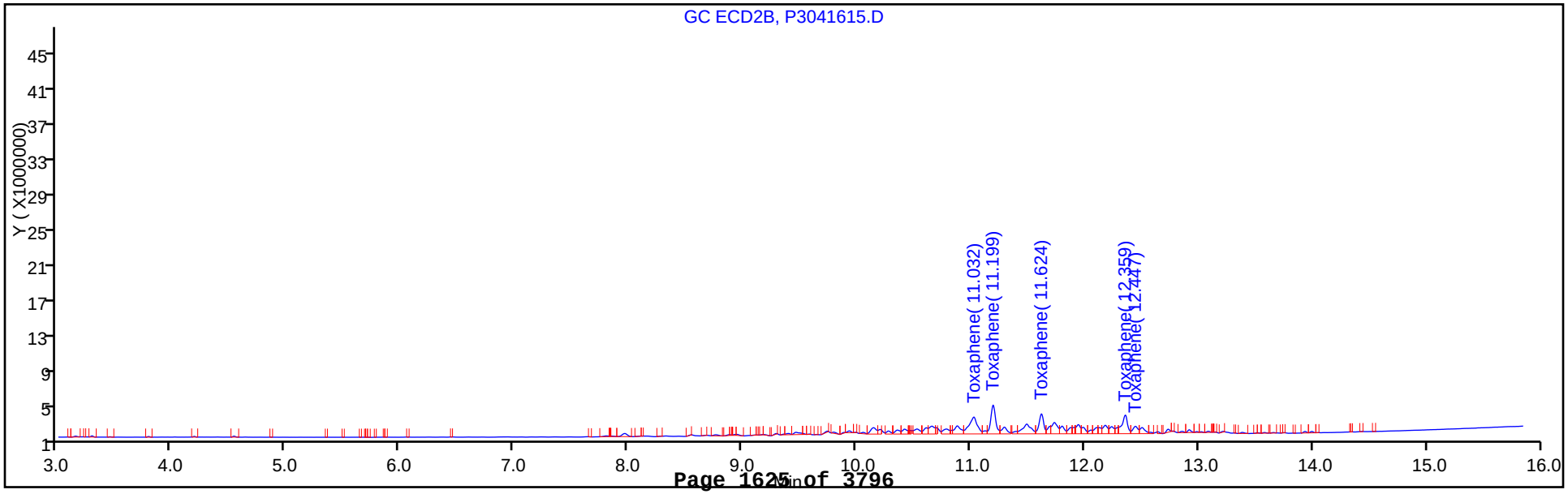
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D

Injection Date:	16-Apr-2015 19:10:08	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2015 08:37:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

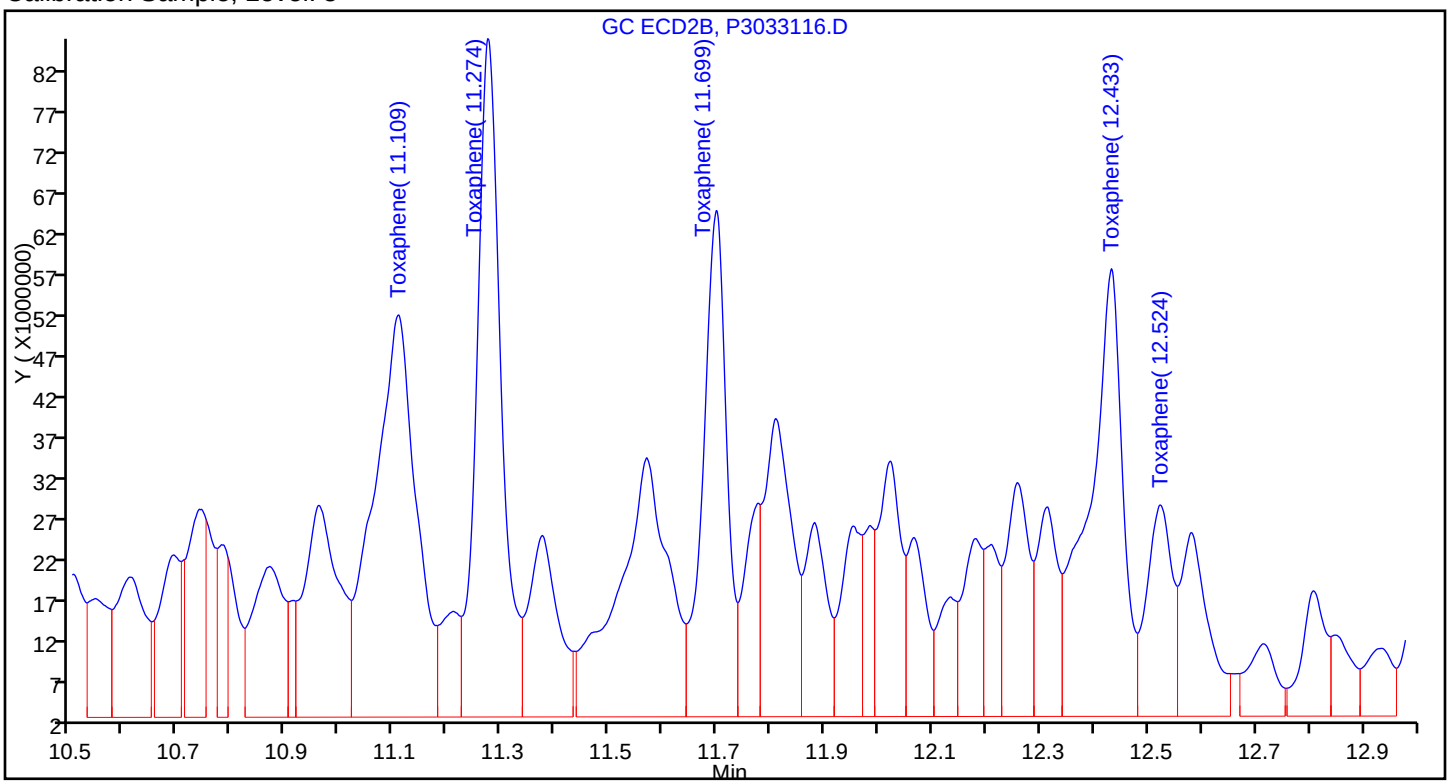
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D

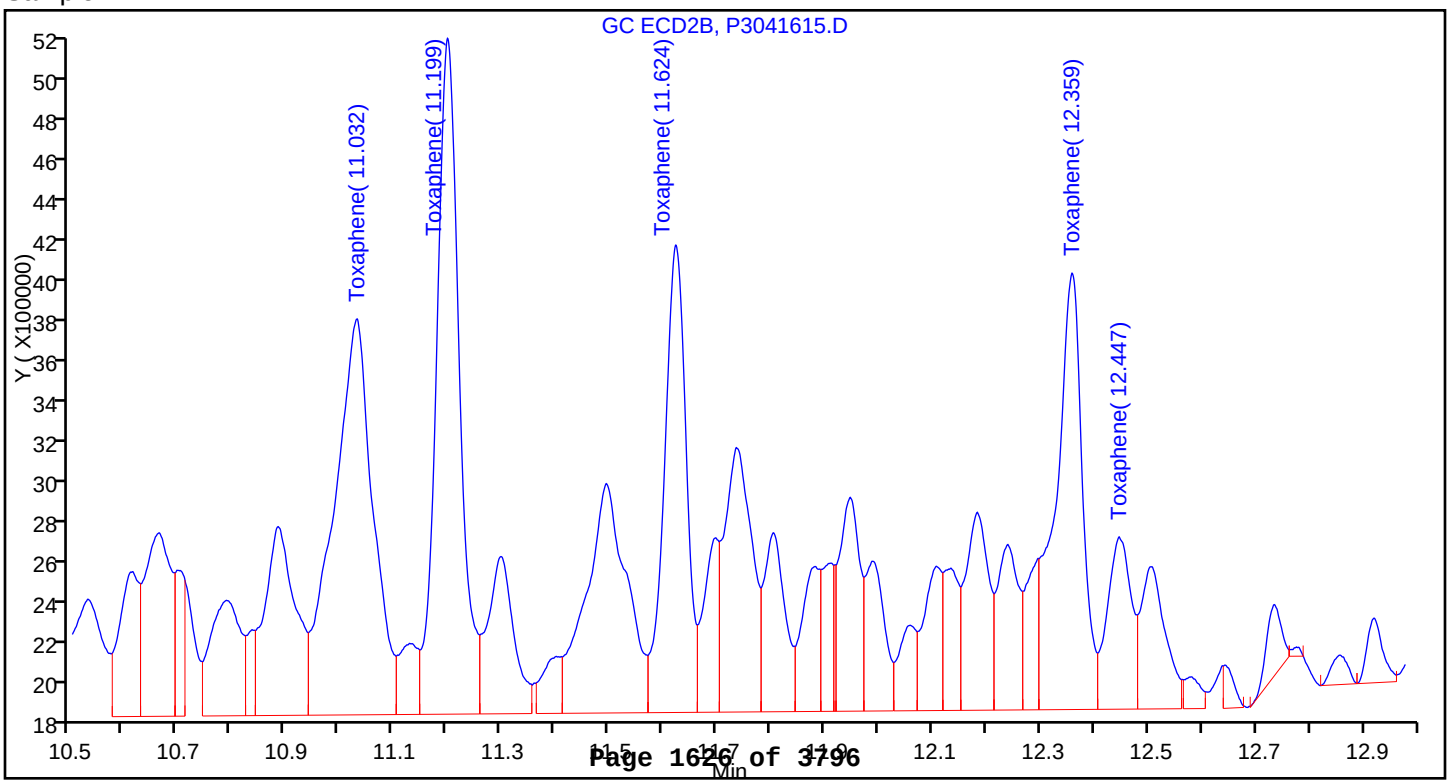
Injection Date:	16-Apr-2015 19:10:08	Instrument ID:	A2HP3		
Lims ID:	MRL TOX				
Client ID:					
Operator ID:	430893	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ecd2b		

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 17-Apr-2015 08:37:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041615.D

Injection Date: 16-Apr-2015 19:10:08 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

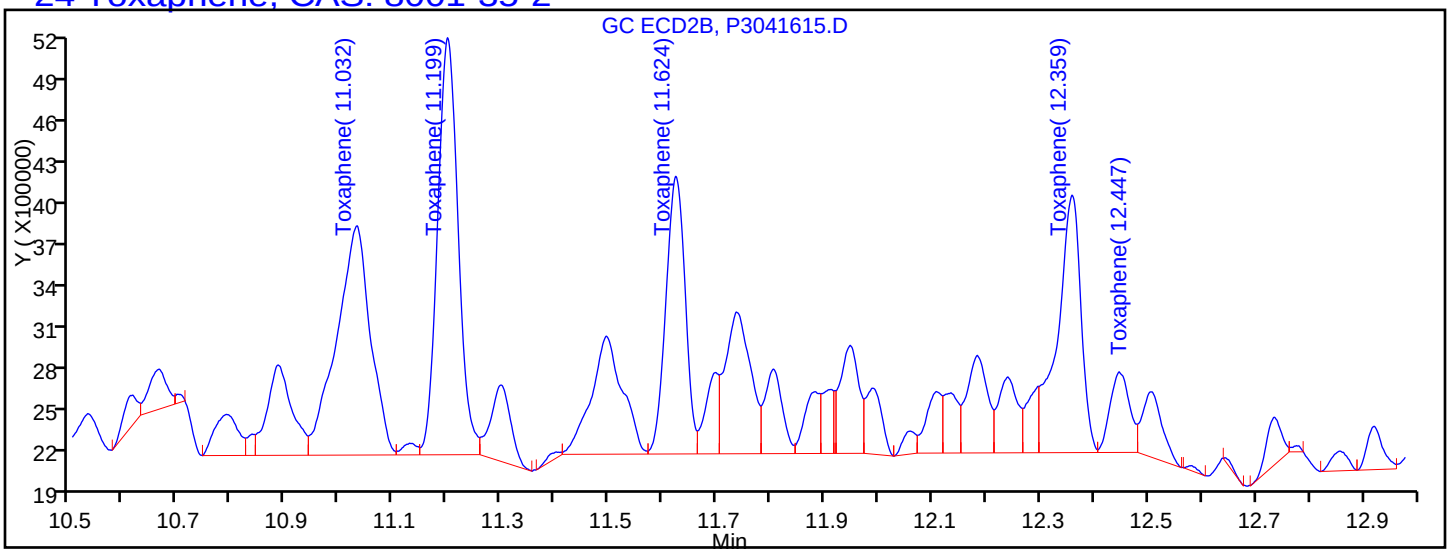
Operator ID: 430893 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

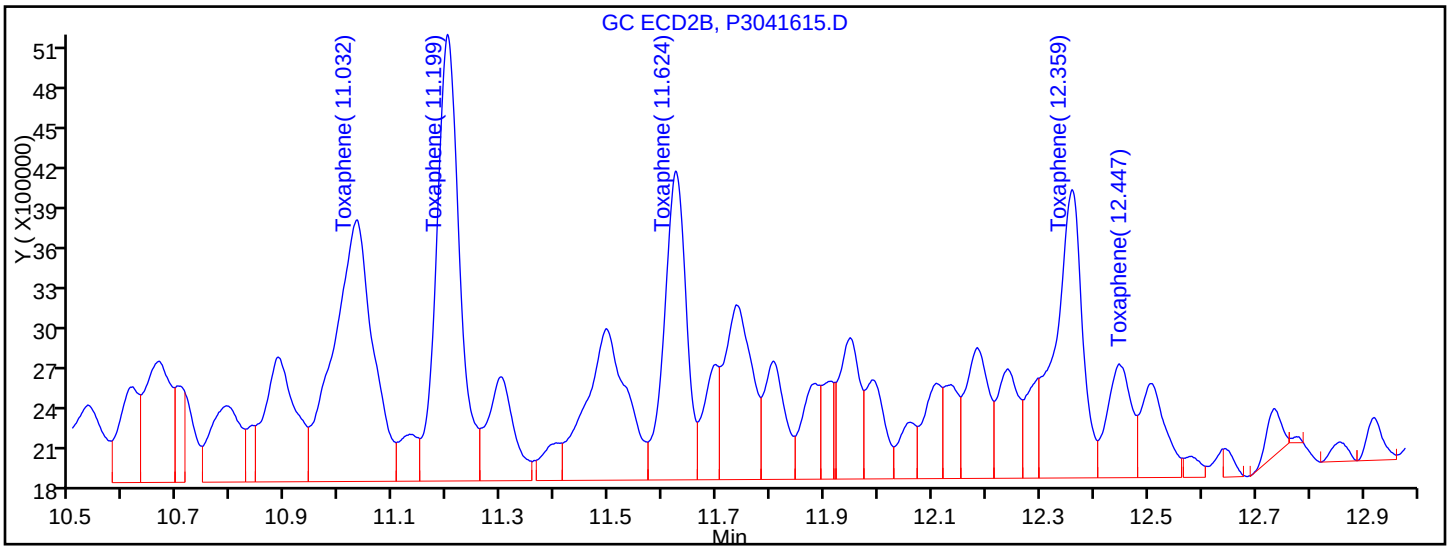
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.032	Response = 7190814	M
RT = 11.199	Response = 8004680	M
RT = 11.624	Response = 4990209	M
RT = 12.359	Response = 5631337	M
RT = 12.447	Response = 1474071	M



Manual Integration Results

RT = 11.032	Response = 9733306	M
RT = 11.199	Response = 9735686	M
RT = 11.624	Response = 6397596	M
RT = 12.359	Response = 7278698	M
RT = 12.447	Response = 2590839	M

Reviewer: matthewsb, 17-Apr-2015 08:21:52

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176694/16

Matrix: Water | Lab File ID: P3041616.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/16/2015 19:33

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	5.13		0.050	0.050	0.018
72-55-9	4,4'-DDE	4.76		0.050	0.050	0.0090
50-29-3	4,4'-DDT	4.74		0.050	0.050	0.014
309-00-2	Aldrin	5.06		0.050	0.050	0.013
319-84-6	alpha-BHC	4.81		0.050	0.050	0.014
5103-71-9	alpha-Chlordane	5.25		0.050	0.050	0.012
319-85-7	beta-BHC	5.62		0.050	0.050	0.013
319-86-8	delta-BHC	4.71		0.050	0.050	0.029
60-57-1	Dieldrin	5.19		0.050	0.050	0.013
959-98-8	Endosulfan I	5.38		0.050	0.050	0.016
33213-65-9	Endosulfan II	5.84		0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	5.75		0.050	0.050	0.011
72-20-8	Endrin	5.53		0.050	0.050	0.012
7421-93-4	Endrin aldehyde	5.72		0.050	0.050	0.0080
53494-70-5	Endrin ketone	5.65		0.050	0.050	0.0090
58-89-9	gamma-BHC (Lindane)	4.98		0.050	0.050	0.012
5103-74-2	gamma-Chlordane	5.14		0.050	0.050	0.010
76-44-8	Heptachlor	5.41		0.050	0.050	0.0050
1024-57-3	Heptachlor epoxide	5.41		0.050	0.050	0.014
72-43-5	Methoxychlor	6.05		0.10	0.050	0.012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	125		50-150
877-09-8	Tetrachloro-m-xylene	107		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041616.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 16-Apr-2015 19:33:20 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-016
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.560	3.563	-0.003	5243951	5.00	5.33	
2	4.240	4.240	0.000	6122047	5.00	5.43	
						RPD = 1.86	
3 Hexachlorobenzene							
1		4.035				ND	
2		4.885					
2 Diallate							
1		4.131				ND	
1		4.297					
2		4.837					
2		4.999					
4 alpha-BHC							
1	4.255	4.258	-0.003	8334748	5.00	4.81	
2	5.135	5.134	0.001	9520119	5.00	4.86	
						RPD = 1.05	
5 gamma-BHC (Lindane)							
1	4.643	4.646	-0.003	7694740	5.00	4.98	
2	5.759	5.758	0.001	8886924	5.00	5.02	
						RPD = 0.75	
6 beta-BHC							
1	4.781	4.784	-0.003	3539312	5.00	5.62	
2	5.958	5.957	0.001	4412490	5.00	5.74	
						RPD = 2.17	
7 delta-BHC							
1	5.004	5.007	-0.003	7080351	5.00	4.71	
2	6.582	6.581	0.001	8517463	5.00	4.80	
						RPD = 1.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1	5.290	5.293	-0.003	7901099	5.00	5.41	
2	6.662	6.663	-0.001	9317031	5.00	5.51	
						RPD = 1.77	
10 Aldrin							
1	5.755	5.759	-0.004	7390643	5.00	5.06	
2	7.469	7.469	0.000	8596079	5.00	5.14	
						RPD = 1.67	
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1	7.031	7.036	-0.005	7056399	5.00	5.41	
2	8.899	8.898	0.001	7907778	5.00	5.51	
						RPD = 1.78	
13 gamma-Chlordane							
1	7.347	7.352	-0.005	6947582	5.00	5.14	
2	9.292	9.291	0.001	7861045	5.00	5.34	
						RPD = 3.80	
14 alpha-Chlordane							
1	7.694	7.698	-0.004	7022126	5.00	5.25	
2	9.590	9.589	0.001	7633318	5.00	5.37	
						RPD = 2.34	
15 Endosulfan I							
1	7.968	7.971	-0.003	6608923	5.00	5.38	
2	9.659	9.658	0.001	7296128	5.00	5.52	
						RPD = 2.51	
16 4,4'-DDE							
1	8.065	8.068	-0.003	5639626	5.00	4.76	
2	10.016	10.016	0.000	6708519	5.00	5.08	
						RPD = 6.51	
17 Dieldrin							
1	8.517	8.521	-0.004	6788764	5.00	5.19	
2	10.173	10.172	0.001	7248471	5.00	5.30	
						RPD = 2.03	
18 Endrin							
1	8.970	8.973	-0.003	6366650	5.00	5.53	
2	10.687	10.685	0.002	6727975	5.00	5.58	
						RPD = 0.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1	9.330	9.334	-0.004	4465662	5.00	5.13	
2	11.010	11.009	0.001	4985203	5.00	5.09	
						RPD = 0.71	
21 Endosulfan II							
1	9.419	9.422	-0.003	6754385	5.00	5.84	
2	11.055	11.055	0.000	6849034	5.00	5.86	
						RPD = 0.31	
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							
1		9.626				ND	
1		10.087					
1		10.399					
1		10.741					
1		10.847					
2		11.033					
2		11.200					
2		11.624					
2		12.359					
2		12.449					
23 4,4'-DDT							
1	9.845	9.847	-0.002	4525218	5.00	4.74	
2	11.490	11.491	-0.001	4789766	5.00	4.80	
						RPD = 1.30	
25 Endrin aldehyde							
1	10.214	10.215	-0.001	5096534	5.00	5.72	
2	11.614	11.613	0.001	5362703	5.00	5.74	
						RPD = 0.37	
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1	10.795	10.796	-0.001	2771532	5.00	6.05	
2	12.558	12.557	0.001	2839108	5.00	5.80	
						RPD = 4.13	
28 Endosulfan sulfate							
1	10.938	10.939	-0.001	5724681	5.00	5.75	
2	12.034	12.034	0.000	6013657	5.00	5.68	
						RPD = 1.20	
29 Endrin ketone							
1	11.337	11.338	-0.001	6901338	5.00	5.65	
2	12.779	12.779	0.000	6842359	5.00	5.57	
						RPD = 1.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.942	12.943	-0.001	5830661	5.00	6.23	
2	14.495	14.496	-0.001	6108006	5.00	6.00	
						RPD = 3.70	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

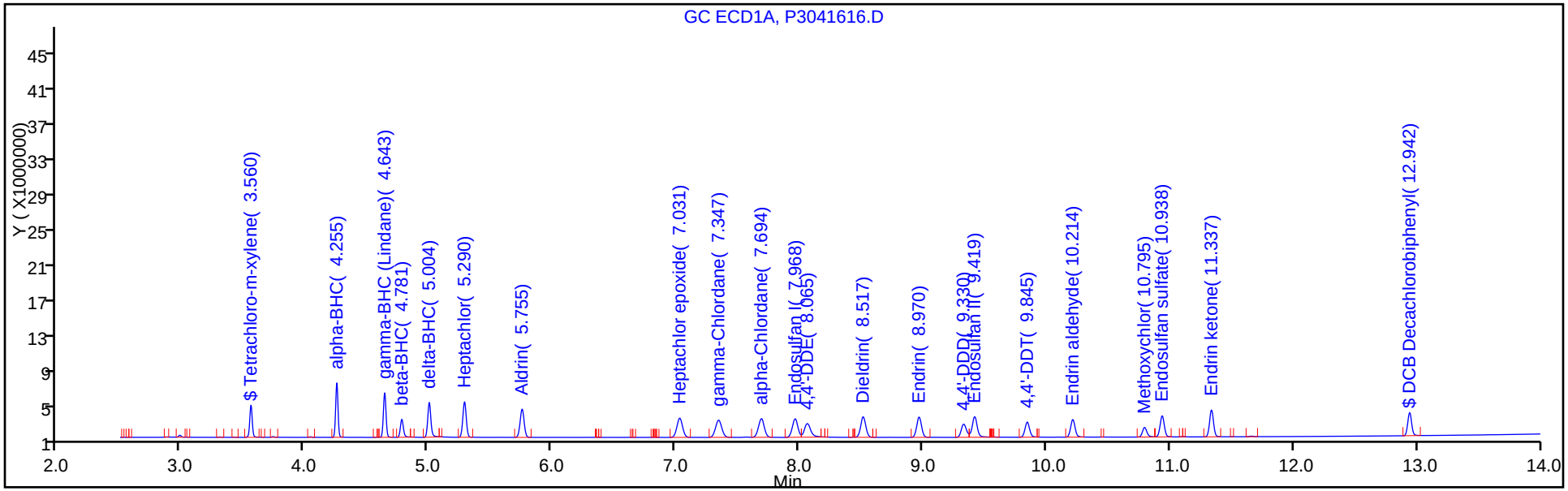
Report Date: 17-Apr-2015 08:37:52 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

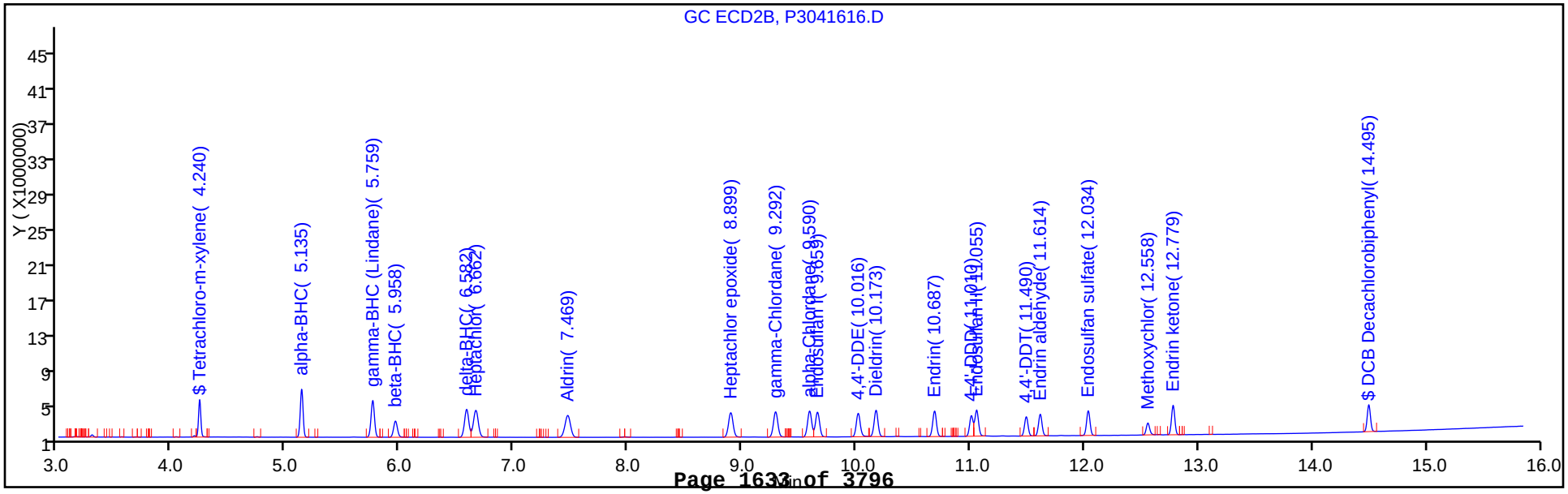
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041616.D

Injection Date:	16-Apr-2015 19:33:20	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176694/16

Matrix: Water | Lab File ID: P3041616.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/16/2015 19:33

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*5.09*		*0.050*	0.050	*0.018*
72-55-9	*4,4'-DDE*	*5.08*		*0.050*	0.050	*0.0090*
50-29-3	*4,4'-DDT*	*4.80*		*0.050*	0.050	*0.014*
309-00-2	*Aldrin*	*5.14*		*0.050*	0.050	*0.013*
319-84-6	*alpha-BHC*	*4.86*		*0.050*	0.050	*0.014*
5103-71-9	*alpha-Chlordane*	*5.37*		*0.050*	0.050	*0.012*
319-85-7	*beta-BHC*	*5.74*		*0.050*	0.050	*0.013*
319-86-8	*delta-BHC*	*4.80*		*0.050*	0.050	*0.029*
60-57-1	*Dieldrin*	*5.30*		*0.050*	0.050	*0.013*
959-98-8	*Endosulfan I*	*5.52*		*0.050*	0.050	*0.016*
33213-65-9	*Endosulfan II*	*5.86*		*0.050*	0.050	*0.015*
1031-07-8	*Endosulfan sulfate*	*5.68*		*0.050*	0.050	*0.011*
72-20-8	*Endrin*	*5.58*		*0.050*	0.050	*0.012*
7421-93-4	*Endrin aldehyde*	*5.74*		*0.050*	0.050	*0.0080*
53494-70-5	*Endrin ketone*	*5.57*		*0.050*	0.050	*0.0090*
58-89-9	*gamma-BHC (Lindane)*	*5.02*		*0.050*	0.050	*0.012*
5103-74-2	*gamma-Chlordane*	*5.34*		*0.050*	0.050	*0.010*
76-44-8	*Heptachlor*	*5.51*		*0.050*	0.050	*0.0050*
1024-57-3	*Heptachlor epoxide*	*5.51*		*0.050*	0.050	*0.014*
72-43-5	*Methoxychlor*	*5.80*		*0.10*	0.050	*0.012*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	120		50-150
877-09-8	Tetrachloro-m-xylene	109		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041616.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 16-Apr-2015 19:33:20 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-016
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:37:49 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.560	3.563	-0.003	5243951	5.00	5.33	
2	4.240	4.240	0.000	6122047	5.00	5.43	
						RPD = 1.86	
3 Hexachlorobenzene							
1		4.035				ND	
2		4.885					
2 Diallate							
1		4.131				ND	
1		4.297					
2		4.837					
2		4.999					
4 alpha-BHC							
1	4.255	4.258	-0.003	8334748	5.00	4.81	
2	5.135	5.134	0.001	9520119	5.00	4.86	
						RPD = 1.05	
5 gamma-BHC (Lindane)							
1	4.643	4.646	-0.003	7694740	5.00	4.98	
2	5.759	5.758	0.001	8886924	5.00	5.02	
						RPD = 0.75	
6 beta-BHC							
1	4.781	4.784	-0.003	3539312	5.00	5.62	
2	5.958	5.957	0.001	4412490	5.00	5.74	
						RPD = 2.17	
7 delta-BHC							
1	5.004	5.007	-0.003	7080351	5.00	4.71	
2	6.582	6.581	0.001	8517463	5.00	4.80	
						RPD = 1.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1	5.290	5.293	-0.003	7901099	5.00	5.41	
2	6.662	6.663	-0.001	9317031	5.00	5.51	
						RPD = 1.77	
10 Aldrin							
1	5.755	5.759	-0.004	7390643	5.00	5.06	
2	7.469	7.469	0.000	8596079	5.00	5.14	
						RPD = 1.67	
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1	7.031	7.036	-0.005	7056399	5.00	5.41	
2	8.899	8.898	0.001	7907778	5.00	5.51	
						RPD = 1.78	
13 gamma-Chlordane							
1	7.347	7.352	-0.005	6947582	5.00	5.14	
2	9.292	9.291	0.001	7861045	5.00	5.34	
						RPD = 3.80	
14 alpha-Chlordane							
1	7.694	7.698	-0.004	7022126	5.00	5.25	
2	9.590	9.589	0.001	7633318	5.00	5.37	
						RPD = 2.34	
15 Endosulfan I							
1	7.968	7.971	-0.003	6608923	5.00	5.38	
2	9.659	9.658	0.001	7296128	5.00	5.52	
						RPD = 2.51	
16 4,4'-DDE							
1	8.065	8.068	-0.003	5639626	5.00	4.76	
2	10.016	10.016	0.000	6708519	5.00	5.08	
						RPD = 6.51	
17 Dieldrin							
1	8.517	8.521	-0.004	6788764	5.00	5.19	
2	10.173	10.172	0.001	7248471	5.00	5.30	
						RPD = 2.03	
18 Endrin							
1	8.970	8.973	-0.003	6366650	5.00	5.53	
2	10.687	10.685	0.002	6727975	5.00	5.58	
						RPD = 0.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1	9.330	9.334	-0.004	4465662	5.00	5.13	
2	11.010	11.009	0.001	4985203	5.00	5.09	
						RPD = 0.71	
21 Endosulfan II							
1	9.419	9.422	-0.003	6754385	5.00	5.84	
2	11.055	11.055	0.000	6849034	5.00	5.86	
						RPD = 0.31	
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							
1		9.626				ND	
1		10.087					
1		10.399					
1		10.741					
1		10.847					
2		11.033					
2		11.200					
2		11.624					
2		12.359					
2		12.449					
23 4,4'-DDT							
1	9.845	9.847	-0.002	4525218	5.00	4.74	
2	11.490	11.491	-0.001	4789766	5.00	4.80	
						RPD = 1.30	
25 Endrin aldehyde							
1	10.214	10.215	-0.001	5096534	5.00	5.72	
2	11.614	11.613	0.001	5362703	5.00	5.74	
						RPD = 0.37	
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1	10.795	10.796	-0.001	2771532	5.00	6.05	
2	12.558	12.557	0.001	2839108	5.00	5.80	
						RPD = 4.13	
28 Endosulfan sulfate							
1	10.938	10.939	-0.001	5724681	5.00	5.75	
2	12.034	12.034	0.000	6013657	5.00	5.68	
						RPD = 1.20	
29 Endrin ketone							
1	11.337	11.338	-0.001	6901338	5.00	5.65	
2	12.779	12.779	0.000	6842359	5.00	5.57	
						RPD = 1.34	

Report Date: 17-Apr-2015 08:37:52 Chrom Revision: 2.2 13-Mar-2015 11:20:44

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041616.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.942	12.943	-0.001	5830661	5.00	6.23	
2	14.495	14.496	-0.001	6108006	5.00	6.00	
						RPD = 3.70	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

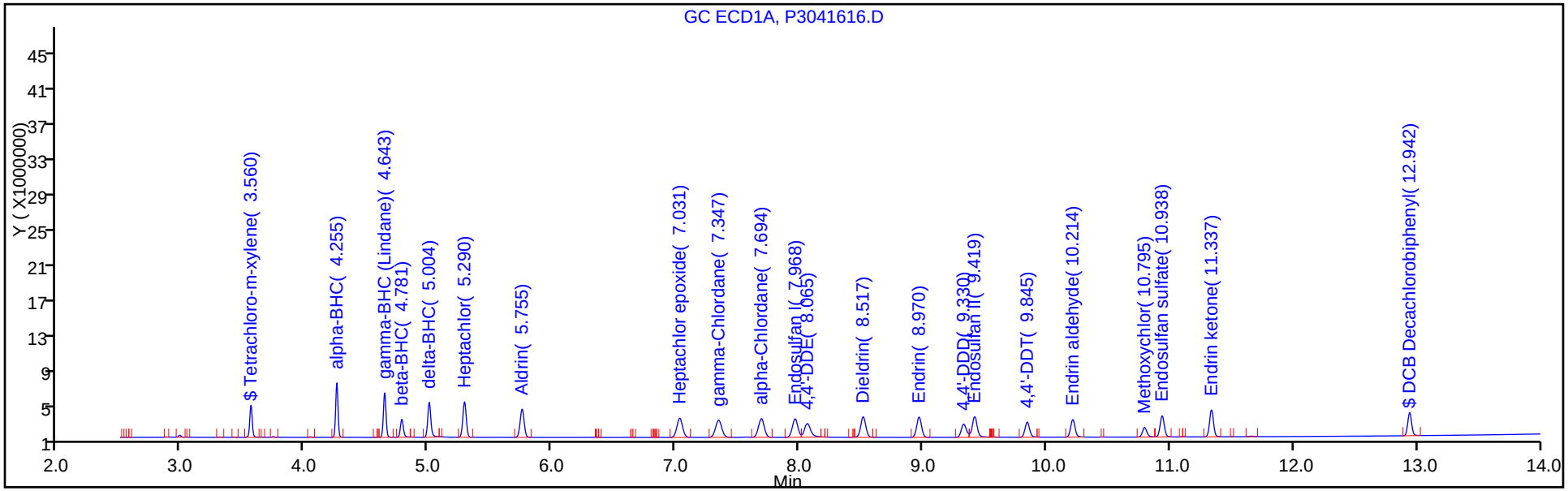
Report Date: 17-Apr-2015 08:37:52 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

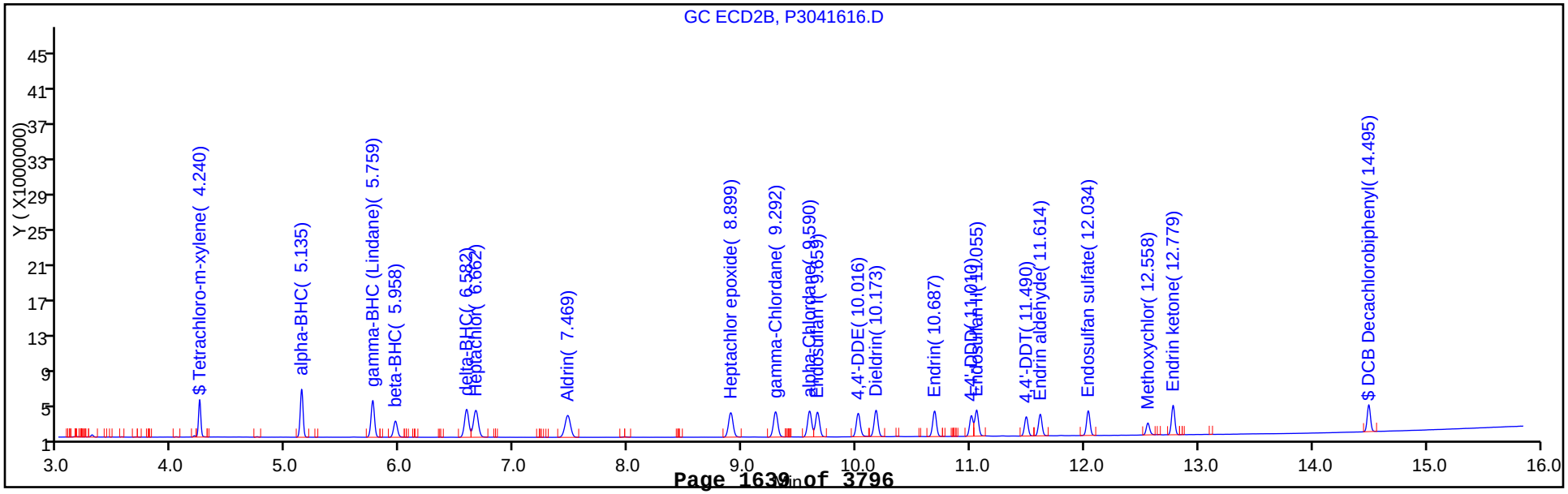
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041616.D

Injection Date:	16-Apr-2015 19:33:20	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176694/30

Matrix: Water Lab File ID: P3041630.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/17/2015 00:56

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	151		2.0	1.0	0.20

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 17-Apr-2015 00:56:00 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-030
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:04 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:30:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559					ND	
2	4.240						
3 Hexachlorobenzene							
1	4.035					ND	
2	4.885						
2 Diallate							
1	4.131					ND	
1	4.297						
2	4.837						
2	4.999						
4 alpha-BHC							
1	4.254					ND	
2	5.135						
5 gamma-BHC (Lindane)							
1	4.642					ND	
2	5.759						
6 beta-BHC							
1	4.779					ND	
2	5.957						
7 delta-BHC							
1	5.002					ND	
2	6.582						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1		5.289				ND	
2		6.664					
10 Aldrin							
1		5.754				ND	
2		7.469					
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1		7.029				ND	
2		8.898					
13 gamma-Chlordane							
1		7.346				ND	
2		9.292					
14 alpha-Chlordane							
1		7.691				ND	
2		9.590					
15 Endosulfan I							
1		7.964				ND	
2		9.658					
16 4,4'-DDE							
1		8.061				ND	
2		10.016					
17 Dieldrin							
1		8.516				ND	
2		10.172					
18 Endrin							
1		8.969				ND	
2		10.684					
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1		9.328				ND	
2		11.008					
21 Endosulfan II							
1		9.418				ND	
2		11.054					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							M
1	9.623	9.626	-0.003	6552171	200.0	173.2	M
1	10.085	10.087	-0.002	6267697	200.0	171.0	M
1	10.396	10.399	-0.003	3411189	200.0	146.1	M
1	10.738	10.741	-0.003	5454149	200.0	164.4	M
1	10.845	10.847	-0.002	3194447	200.0	98.8	M
		Average of Peak Amounts =				150.7	
2	11.030	11.033	-0.003	8179974	200.0	157.8	M
2	11.200	11.200	0.000	8411864	200.0	165.1	M
2	11.624	11.624	0.000	5456225	200.0	153.1	M
2	12.360	12.359	0.001	6237866	200.0	136.7	M
2	12.448	12.449	-0.001	1964257	200.0	126.2	M
		Average of Peak Amounts =				147.8	
						RPD = 1.96	
23 4,4'-DDT							
1		9.843				ND	
2		11.490					
25 Endrin aldehyde							
1		10.212				ND	
2		11.613					
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1		10.792				ND	
2		12.556					
28 Endosulfan sulfate							
1		10.936				ND	
2		12.034					
29 Endrin ketone							
1		11.335				ND	
2		12.778					
$ 30 DCB Decachlorobiphenyl							
1		12.938				ND	
2		14.496					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

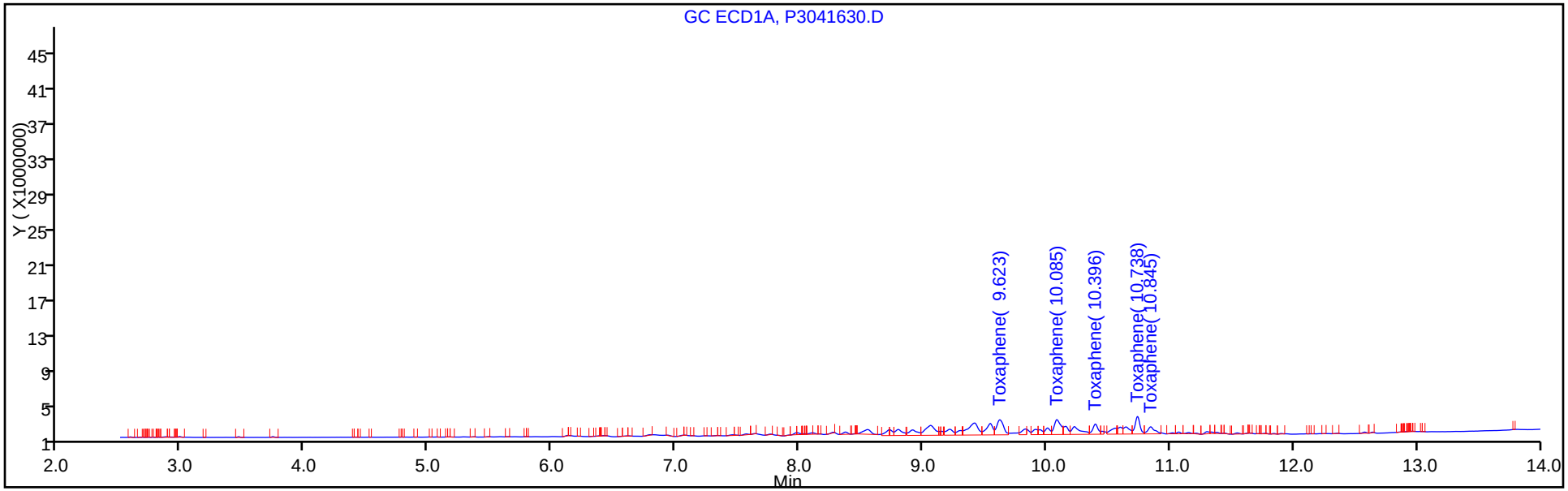
Report Date: 17-Apr-2015 08:38:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

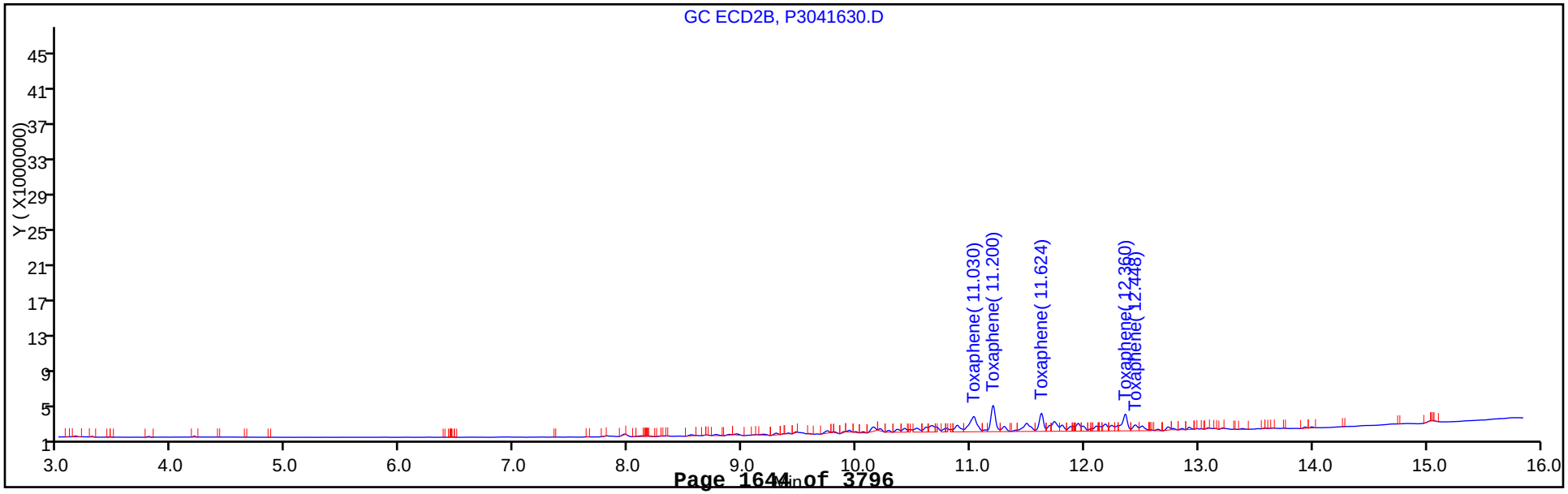
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D

Injection Date:	17-Apr-2015 00:56:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2015 08:38:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D

Injection Date: 17-Apr-2015 00:56:00 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 30 Worklist Smp#: 30

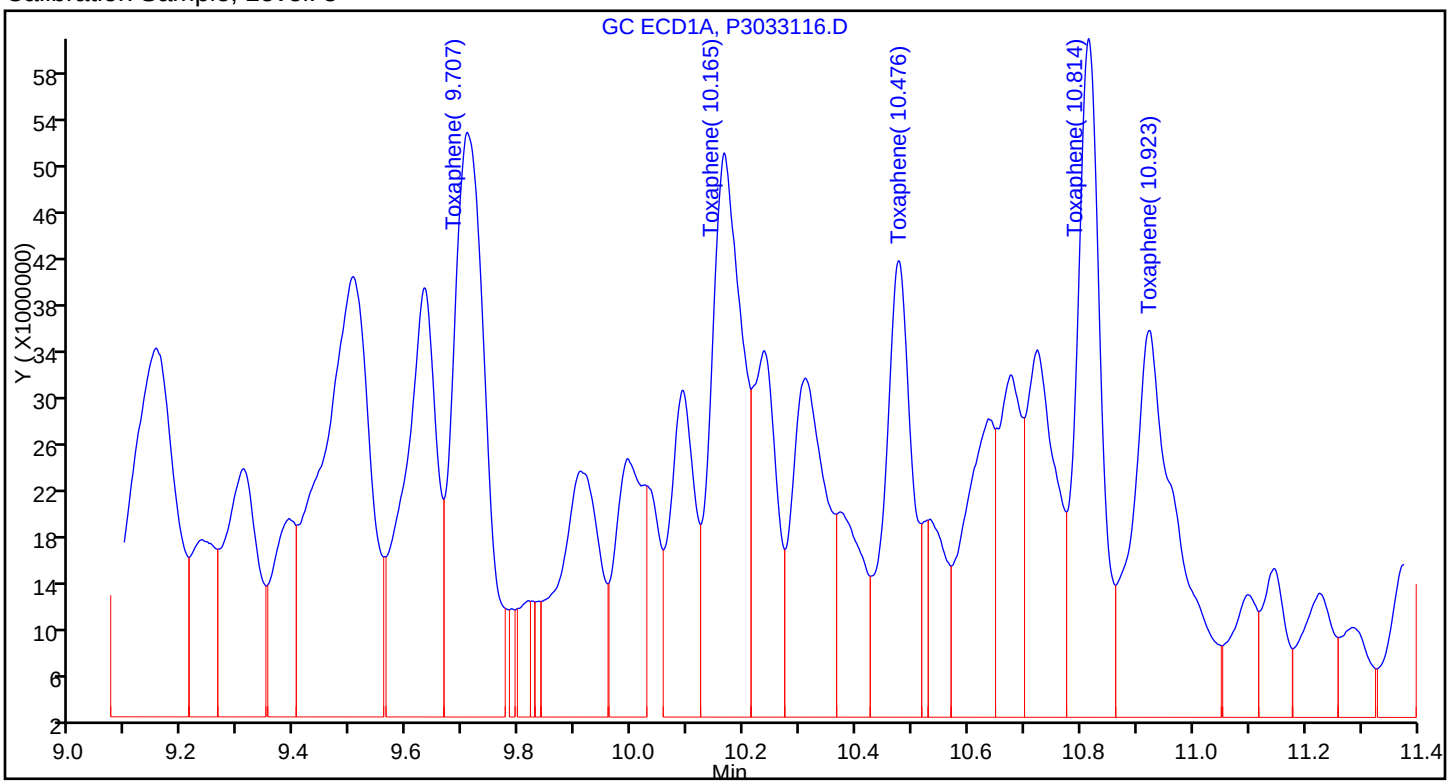
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

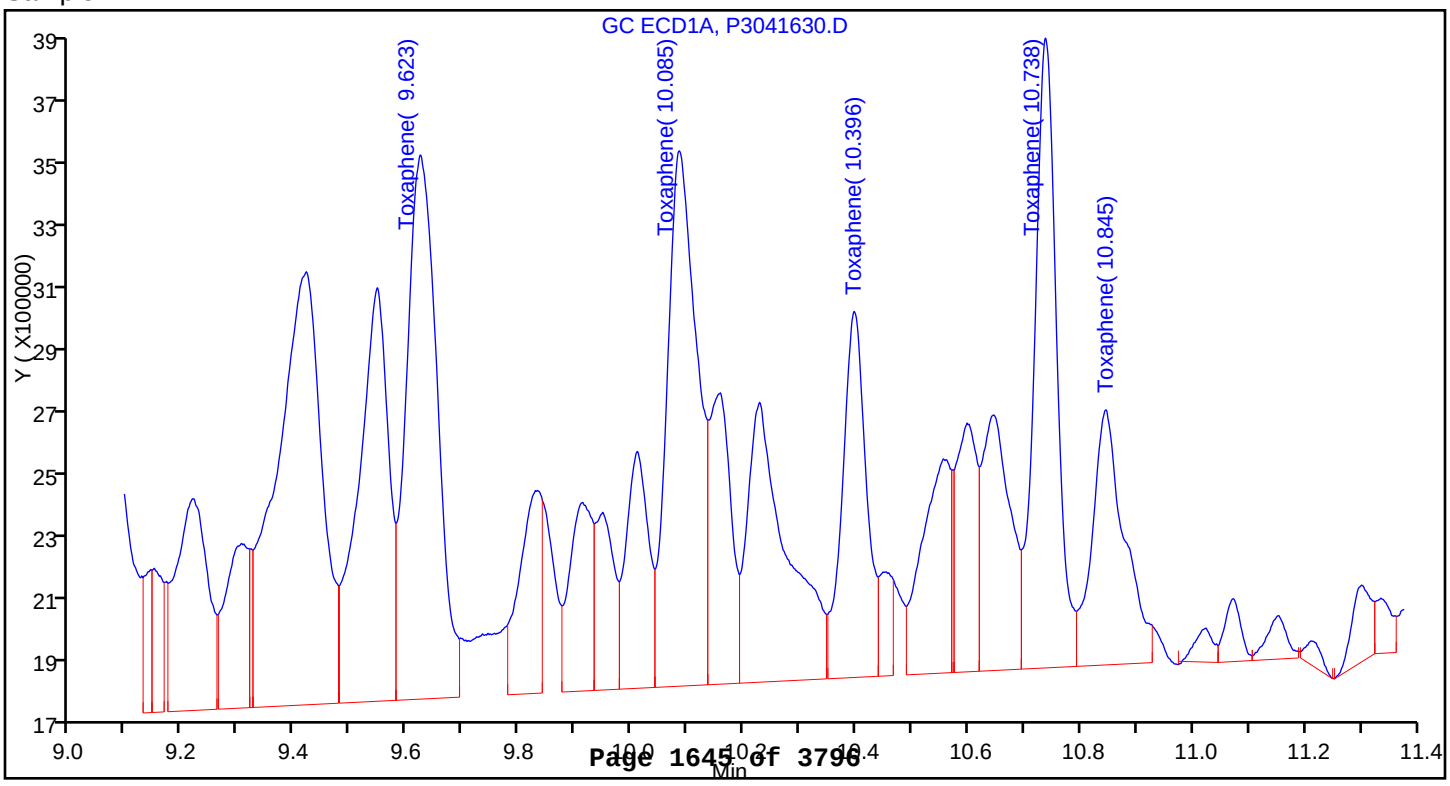
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 17-Apr-2015 08:38:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D

Injection Date: 17-Apr-2015 00:56:00 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

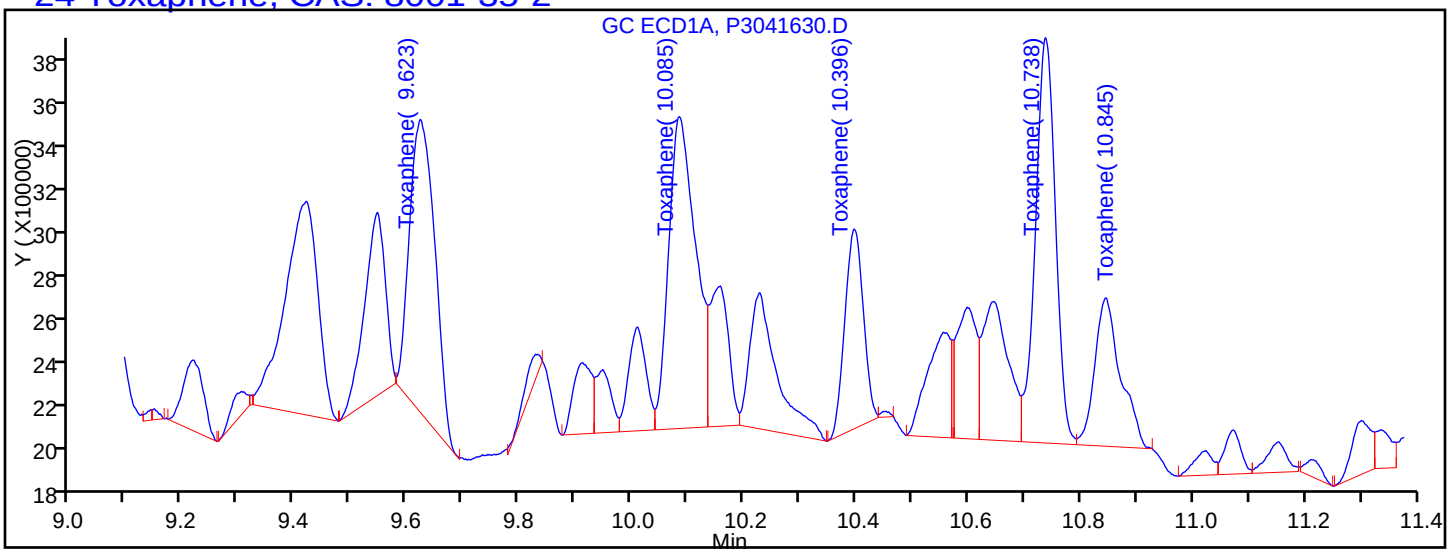
Operator ID: 430893 ALS Bottle#: 30 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

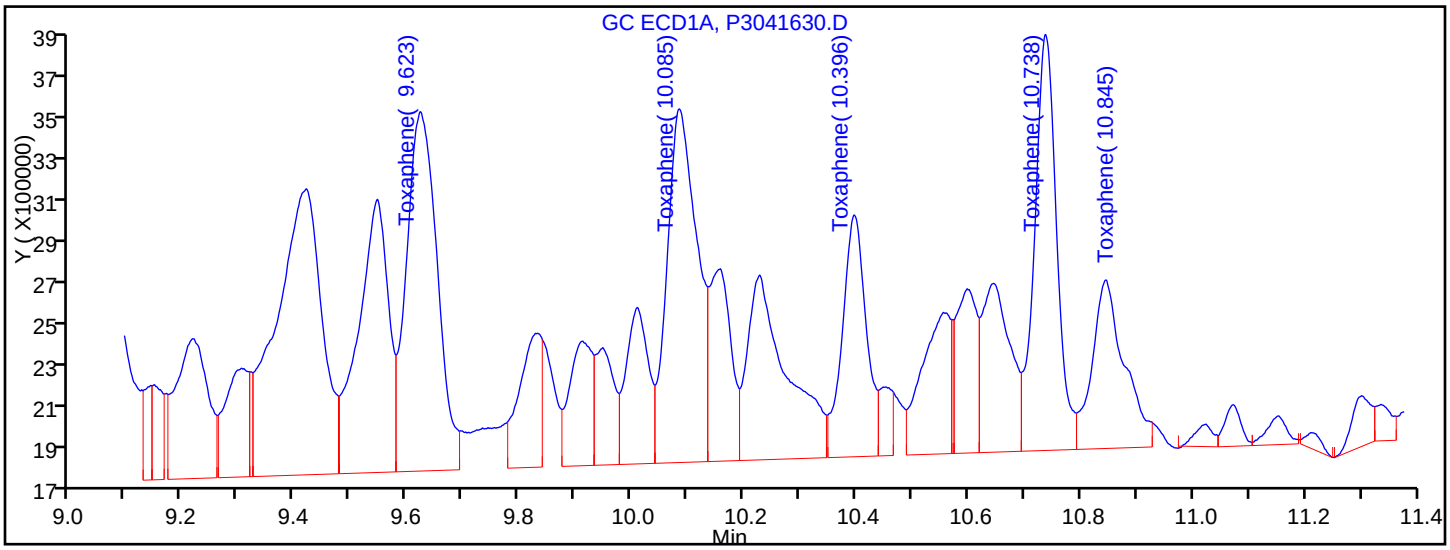
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.623	Response = 4150139	M
RT = 10.085	Response = 4676926	M
RT = 10.396	Response = 2057425	M
RT = 10.738	Response = 4522923	M
RT = 10.845	Response = 2127004	M



Manual Integration Results

RT = 9.623	Response = 6552171	M
RT = 10.085	Response = 6267697	M
RT = 10.396	Response = 3411189	M
RT = 10.738	Response = 5454149	M
RT = 10.845	Response = 3194447	M

Reviewer: matthewsb, 17-Apr-2015 08:30:46

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176694/30

Matrix: Water Lab File ID: P3041630.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/17/2015 00:56

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*148*		*2.0*	1.0	*0.20*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 17-Apr-2015 00:56:00 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-030
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:04 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:30:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559					ND	
2	4.240						
3 Hexachlorobenzene							
1	4.035					ND	
2	4.885						
2 Diallate							
1	4.131					ND	
1	4.297						
2	4.837						
2	4.999						
4 alpha-BHC							
1	4.254					ND	
2	5.135						
5 gamma-BHC (Lindane)							
1	4.642					ND	
2	5.759						
6 beta-BHC							
1	4.779					ND	
2	5.957						
7 delta-BHC							
1	5.002					ND	
2	6.582						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1		5.289				ND	
2		6.664					
10 Aldrin							
1		5.754				ND	
2		7.469					
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1		7.029				ND	
2		8.898					
13 gamma-Chlordane							
1		7.346				ND	
2		9.292					
14 alpha-Chlordane							
1		7.691				ND	
2		9.590					
15 Endosulfan I							
1		7.964				ND	
2		9.658					
16 4,4'-DDE							
1		8.061				ND	
2		10.016					
17 Dieldrin							
1		8.516				ND	
2		10.172					
18 Endrin							
1		8.969				ND	
2		10.684					
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1		9.328				ND	
2		11.008					
21 Endosulfan II							
1		9.418				ND	
2		11.054					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							M
1	9.623	9.626	-0.003	6552171	200.0	173.2	M
1	10.085	10.087	-0.002	6267697	200.0	171.0	M
1	10.396	10.399	-0.003	3411189	200.0	146.1	M
1	10.738	10.741	-0.003	5454149	200.0	164.4	M
1	10.845	10.847	-0.002	3194447	200.0	98.8	M
		Average of Peak Amounts =				150.7	
2	11.030	11.033	-0.003	8179974	200.0	157.8	M
2	11.200	11.200	0.000	8411864	200.0	165.1	M
2	11.624	11.624	0.000	5456225	200.0	153.1	M
2	12.360	12.359	0.001	6237866	200.0	136.7	M
2	12.448	12.449	-0.001	1964257	200.0	126.2	M
		Average of Peak Amounts =				147.8	
						RPD = 1.96	
23 4,4'-DDT							
1		9.843				ND	
2		11.490					
25 Endrin aldehyde							
1		10.212				ND	
2		11.613					
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1		10.792				ND	
2		12.556					
28 Endosulfan sulfate							
1		10.936				ND	
2		12.034					
29 Endrin ketone							
1		11.335				ND	
2		12.778					
$ 30 DCB Decachlorobiphenyl							
1		12.938				ND	
2		14.496					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

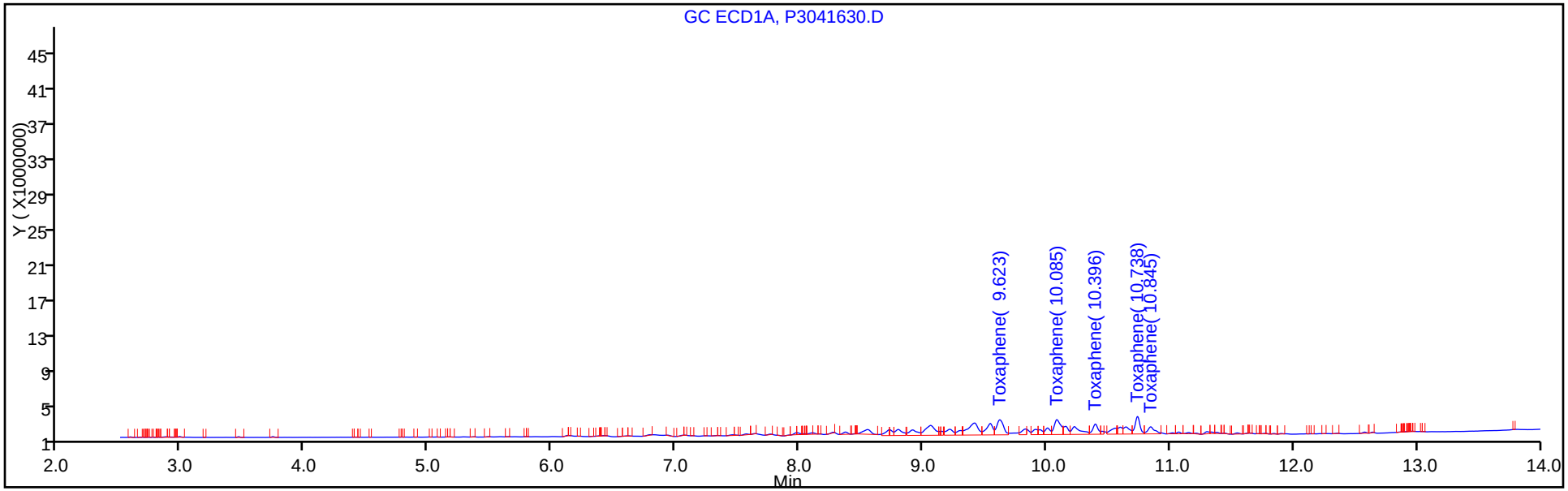
Report Date: 17-Apr-2015 08:38:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

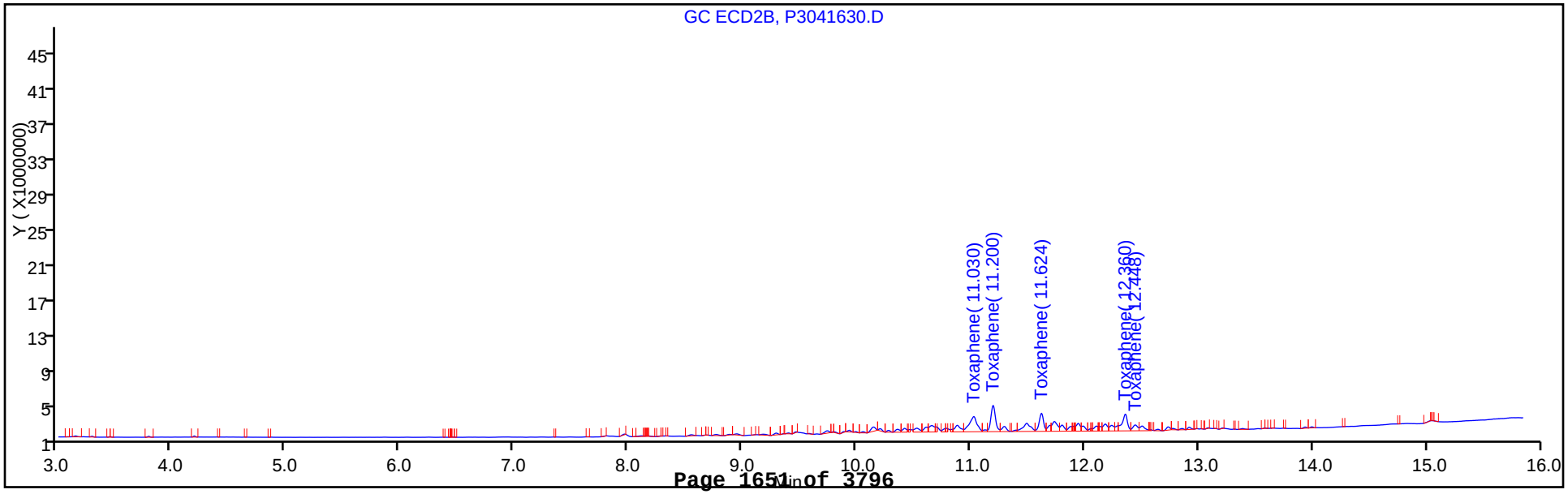
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D

Injection Date:	17-Apr-2015 00:56:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2015 08:38:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

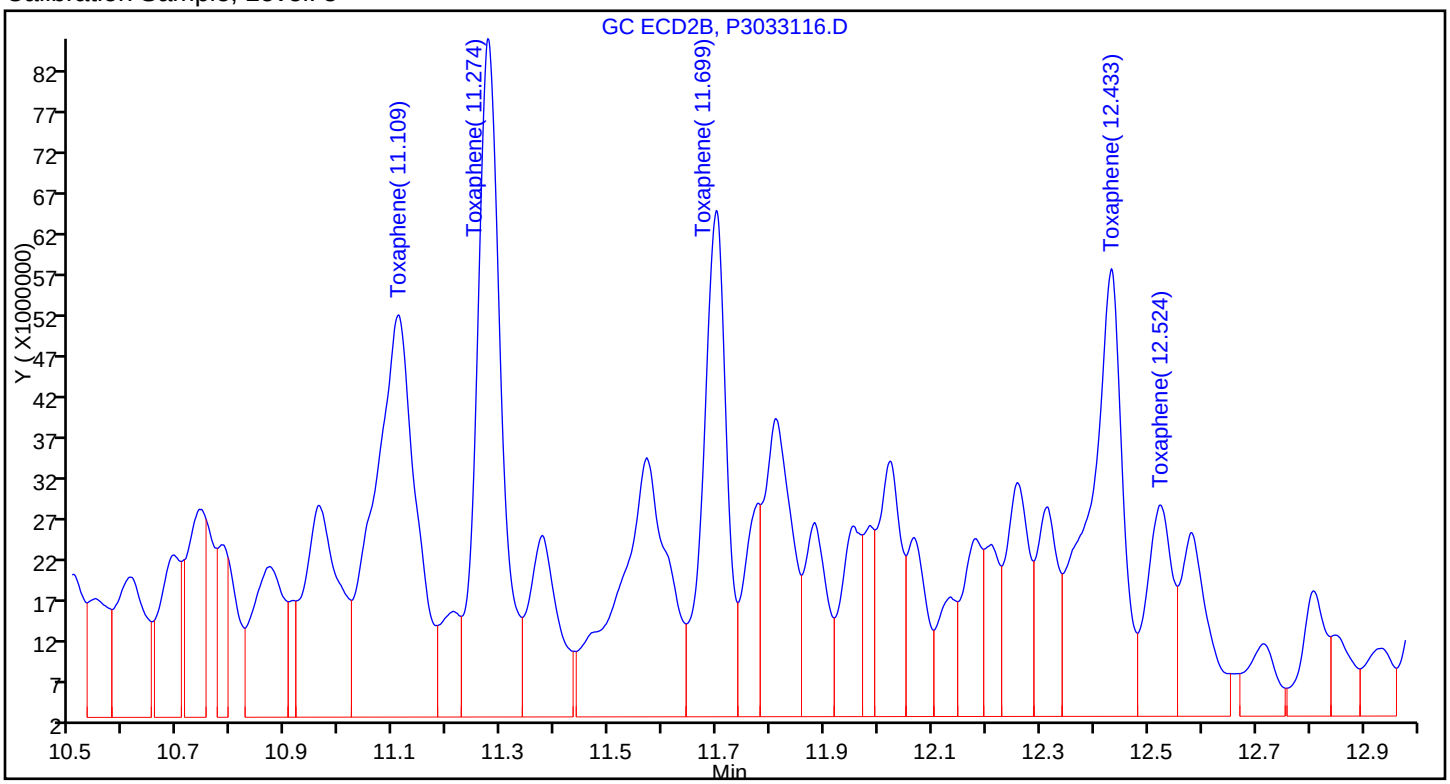
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D

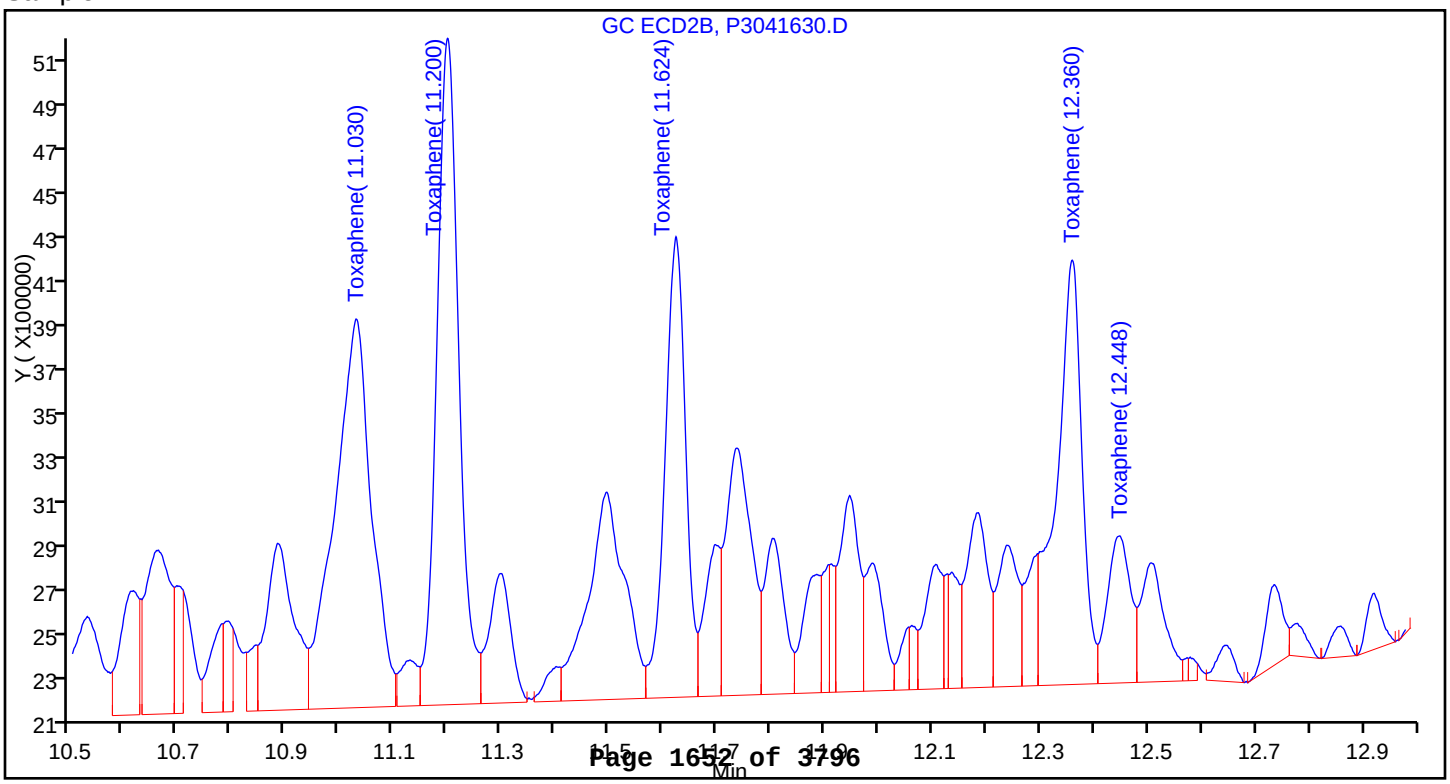
Injection Date:	17-Apr-2015 00:56:00	Instrument ID:	A2HP3		
Lims ID:	MRL TOX				
Client ID:					
Operator ID:	430893	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ecd2b		

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



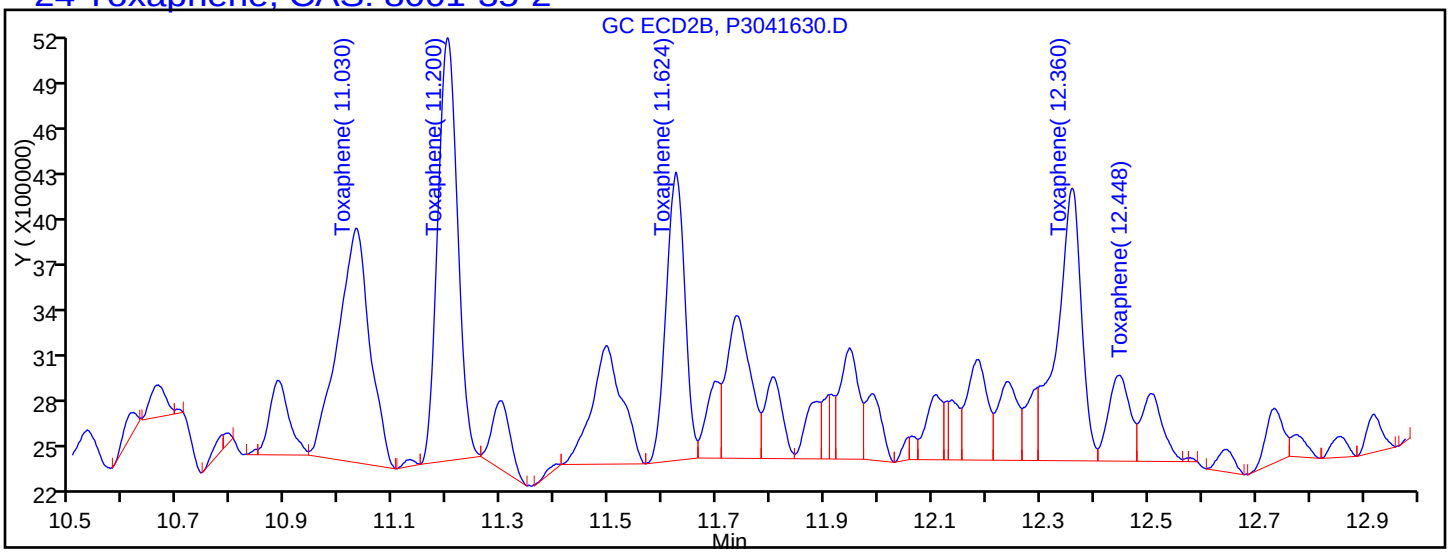
Report Date: 17-Apr-2015 08:38:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041630.D

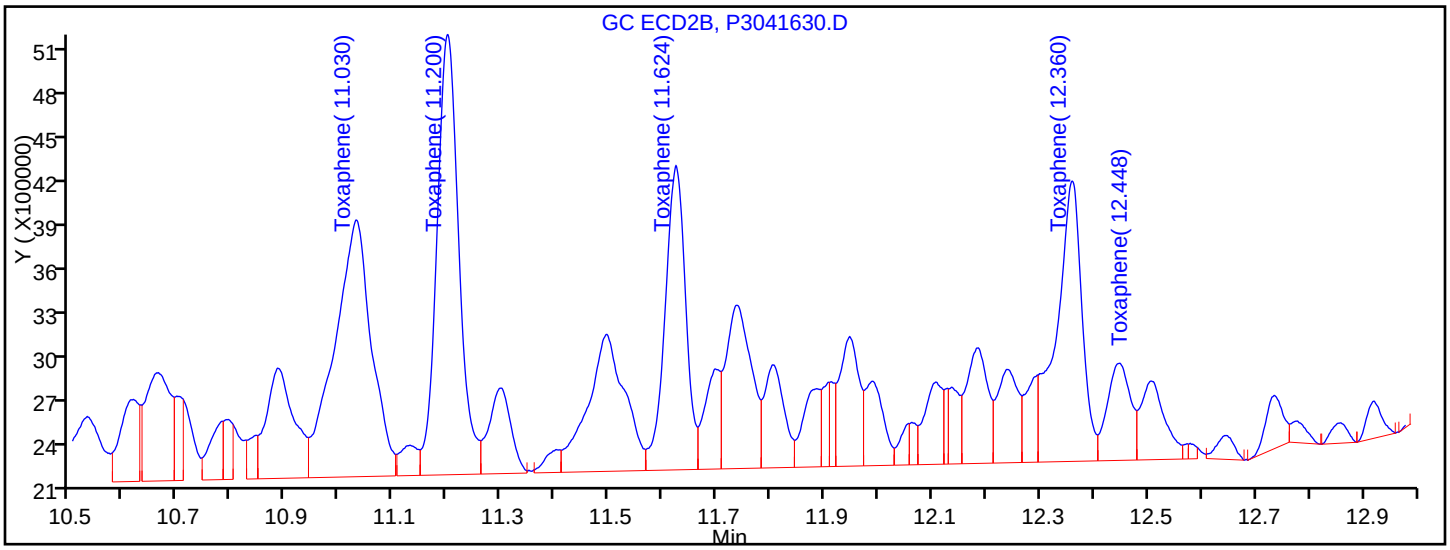
Injection Date:	17-Apr-2015 00:56:00	Instrument ID:	A2HP3
Lims ID:	MRL TOX		
Client ID:			
Operator ID:	430893	ALS Bottle#:	30 Worklist Smp#: 30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL
Column:		Detector	GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.030	Response = 6285831	M
RT = 11.200	Response = 7119766	M
RT = 11.624	Response = 4550833	M
RT = 12.360	Response = 5570126	M
RT = 12.448	Response = 1568692	M



Manual Integration Results

RT = 11.030	Response = 8179974	M
RT = 11.200	Response = 8411864	M
RT = 11.624	Response = 5456225	M
RT = 12.360	Response = 6237866	M
RT = 12.448	Response = 1964257	M

Reviewer: matthewsb, 17-Apr-2015 08:30:46

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176694/31

Matrix: Water | Lab File ID: P3041631.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/17/2015 01:19

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	6.17		0.050	0.050	0.018
72-55-9	4,4'-DDE	5.51		0.050	0.050	0.0090
50-29-3	4,4'-DDT	4.83		0.050	0.050	0.014
309-00-2	Aldrin	5.30		0.050	0.050	0.013
319-84-6	alpha-BHC	5.15		0.050	0.050	0.014
5103-71-9	alpha-Chlordane	5.51		0.050	0.050	0.012
319-85-7	beta-BHC	6.09		0.050	0.050	0.013
319-86-8	delta-BHC	5.27		0.050	0.050	0.029
60-57-1	Dieldrin	5.46		0.050	0.050	0.013
959-98-8	Endosulfan I	5.72		0.050	0.050	0.016
33213-65-9	Endosulfan II	5.88		0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	6.01		0.050	0.050	0.011
72-20-8	Endrin	5.81		0.050	0.050	0.012
7421-93-4	Endrin aldehyde	6.02		0.050	0.050	0.0080
53494-70-5	Endrin ketone	5.79		0.050	0.050	0.0090
58-89-9	gamma-BHC (Lindane)	5.33		0.050	0.050	0.012
5103-74-2	gamma-Chlordane	5.43		0.050	0.050	0.010
76-44-8	Heptachlor	5.76		0.050	0.050	0.0050
1024-57-3	Heptachlor epoxide	5.71		0.050	0.050	0.014
72-43-5	Methoxychlor	6.22		0.10	0.050	0.012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	126		50-150
877-09-8	Tetrachloro-m-xylene	112		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041631.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 17-Apr-2015 01:19:01 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-031
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:04 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:31:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.559	0.000	5523059	5.00	5.62	
2	4.240	4.240	0.000	6335135	5.00	5.62	
						RPD = 0.10	
3 Hexachlorobenzene							
1		4.035				ND	
2		4.885					
2 Diallate							
1		4.131				ND	
1		4.297					
2		4.837					
2		4.999					
4 alpha-BHC							
1	4.254	4.254	0.000	8919218	5.00	5.15	
2	5.134	5.135	-0.001	10002283	5.00	5.11	
						RPD = 0.79	
5 gamma-BHC (Lindane)							
1	4.642	4.642	0.000	8222767	5.00	5.33	
2	5.759	5.759	0.000	9326727	5.00	5.27	
						RPD = 1.05	
6 beta-BHC							
1	4.780	4.779	0.001	3837381	5.00	6.09	
2	5.958	5.957	0.001	4577106	5.00	5.96	
						RPD = 2.25	
7 delta-BHC							
1	5.003	5.002	0.001	7925296	5.00	5.27	
2	6.581	6.582	-0.001	9135053	5.00	5.15	
						RPD = 2.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1	5.288	5.289	-0.001	8405900	5.00	5.76	
2	6.663	6.664	-0.001	9830060	5.00	5.81	
						RPD = 0.94	
10 Aldrin							
1	5.755	5.754	0.001	7744979	5.00	5.30	
2	7.469	7.469	0.000	8892732	5.00	5.32	
						RPD = 0.38	
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1	7.031	7.029	0.002	7441396	5.00	5.71	
2	8.898	8.898	0.000	8206323	5.00	5.72	
						RPD = 0.17	
13 gamma-Chlordane							
1	7.346	7.346	0.000	7329165	5.00	5.43	
2	9.292	9.292	0.000	8124573	5.00	5.52	
						RPD = 1.76	
14 alpha-Chlordane							
1	7.691	7.691	0.000	7367384	5.00	5.51	
2	9.591	9.590	0.001	7848671	5.00	5.53	
						RPD = 0.32	
15 Endosulfan I							
1	7.965	7.964	0.001	7026701	5.00	5.72	
2	9.658	9.658	0.000	7553200	5.00	5.72	
						RPD = 0.16	
16 4,4'-DDE							
1	8.062	8.061	0.001	6525300	5.00	5.51	
2	10.016	10.016	0.000	7056155	5.00	5.34	
						RPD = 3.03	
17 Dieldrin							
1	8.517	8.516	0.001	7143366	5.00	5.46	
2	10.173	10.172	0.001	7343580	5.00	5.37	
						RPD = 1.76	
18 Endrin							
1	8.968	8.969	-0.001	6692124	5.00	5.81	
2	10.686	10.684	0.002	6807972	5.00	5.65	
						RPD = 2.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1	9.329	9.328	0.001	5370059	5.00	6.17	
2	11.009	11.008	0.001	5532052	5.00	5.65	
						RPD = 8.74	
21 Endosulfan II							
1	9.418	9.418	0.000	6800650	5.00	5.88	
2	11.055	11.054	0.001	6701104	5.00	5.73	
						RPD = 2.55	
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							
1		9.626				ND	
1		10.087					
1		10.399					
1		10.741					
1		10.847					
2		11.033					
2		11.200					
2		11.624					
2		12.359					
2		12.449					
23 4,4'-DDT							
1	9.843	9.843	0.000	4611389	5.00	4.83	
2	11.490	11.490	0.000	4688019	5.00	4.70	
						RPD = 2.73	
25 Endrin aldehyde							
1	10.212	10.212	0.000	5362495	5.00	6.02	
2	11.613	11.613	0.000	5412189	5.00	5.80	
						RPD = 3.79	
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1	10.794	10.792	0.002	2847993	5.00	6.22	
2	12.557	12.556	0.001	2802357	5.00	5.73	
						RPD = 8.15	
28 Endosulfan sulfate							
1	10.937	10.936	0.001	5989075	5.00	6.01	
2	12.035	12.034	0.001	6080937	5.00	5.74	
						RPD = 4.60	
29 Endrin ketone							
1	11.336	11.335	0.001	7079209	5.00	5.79	
2	12.779	12.778	0.001	6821789	5.00	5.56	
						RPD = 4.18	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.938	0.003	5901858	5.00	6.30	
2	14.496	14.496	0.000	6272345	5.00	6.16	
						RPD =	2.26

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

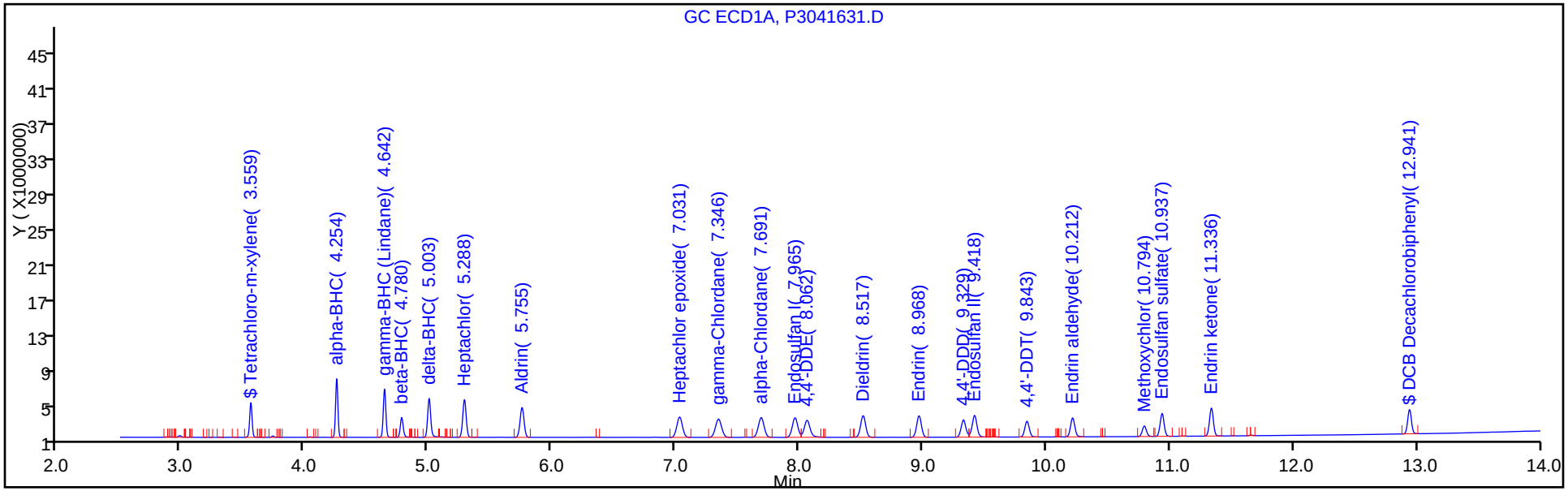
Report Date: 17-Apr-2015 08:38:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

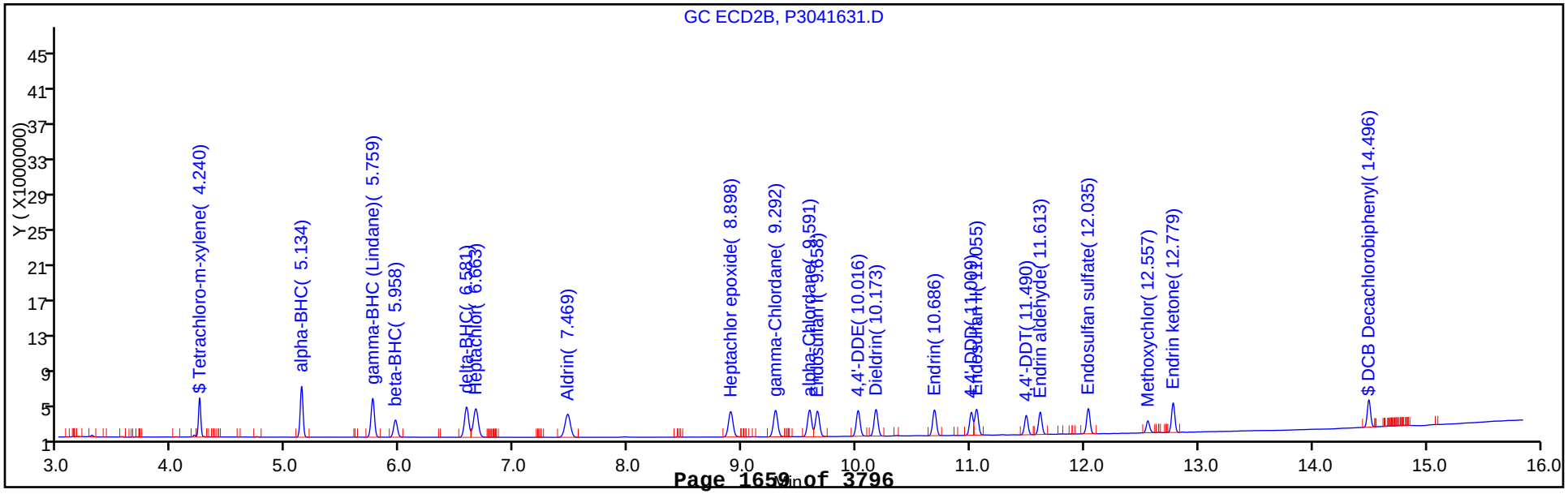
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041631.D

Injection Date:	17-Apr-2015 01:19:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176694/31

Matrix: Water | Lab File ID: P3041631.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/17/2015 01:19

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176694 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*5.65*		*0.050*	0.050	*0.018*
72-55-9	*4,4'-DDE*	*5.34*		*0.050*	0.050	*0.0090*
50-29-3	*4,4'-DDT*	*4.70*		*0.050*	0.050	*0.014*
309-00-2	*Aldrin*	*5.32*		*0.050*	0.050	*0.013*
319-84-6	*alpha-BHC*	*5.11*		*0.050*	0.050	*0.014*
5103-71-9	*alpha-Chlordane*	*5.53*		*0.050*	0.050	*0.012*
319-85-7	*beta-BHC*	*5.96*		*0.050*	0.050	*0.013*
319-86-8	*delta-BHC*	*5.15*		*0.050*	0.050	*0.029*
60-57-1	*Dieldrin*	*5.37*		*0.050*	0.050	*0.013*
959-98-8	*Endosulfan I*	*5.72*		*0.050*	0.050	*0.016*
33213-65-9	*Endosulfan II*	*5.73*		*0.050*	0.050	*0.015*
1031-07-8	*Endosulfan sulfate*	*5.74*		*0.050*	0.050	*0.011*
72-20-8	*Endrin*	*5.65*		*0.050*	0.050	*0.012*
7421-93-4	*Endrin aldehyde*	*5.80*		*0.050*	0.050	*0.0080*
53494-70-5	*Endrin ketone*	*5.56*		*0.050*	0.050	*0.0090*
58-89-9	*gamma-BHC (Lindane)*	*5.27*		*0.050*	0.050	*0.012*
5103-74-2	*gamma-Chlordane*	*5.52*		*0.050*	0.050	*0.010*
76-44-8	*Heptachlor*	*5.81*		*0.050*	0.050	*0.0050*
1024-57-3	*Heptachlor epoxide*	*5.72*		*0.050*	0.050	*0.014*
72-43-5	*Methoxychlor*	*5.73*		*0.10*	0.050	*0.012*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	123		50-150
877-09-8	Tetrachloro-m-xylene	112		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041631.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 17-Apr-2015 01:19:01 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042625-031
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150416-42625.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 17-Apr-2015 08:38:04 Calib Date: 16-Apr-2015 17:12:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041610.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK002

First Level Reviewer: matthewsb Date: 17-Apr-2015 08:31:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.559	0.000	5523059	5.00	5.62	
2	4.240	4.240	0.000	6335135	5.00	5.62	
						RPD = 0.10	
3 Hexachlorobenzene							
1		4.035				ND	
2		4.885					
2 Diallate							
1		4.131				ND	
1		4.297					
2		4.837					
2		4.999					
4 alpha-BHC							
1	4.254	4.254	0.000	8919218	5.00	5.15	
2	5.134	5.135	-0.001	10002283	5.00	5.11	
						RPD = 0.79	
5 gamma-BHC (Lindane)							
1	4.642	4.642	0.000	8222767	5.00	5.33	
2	5.759	5.759	0.000	9326727	5.00	5.27	
						RPD = 1.05	
6 beta-BHC							
1	4.780	4.779	0.001	3837381	5.00	6.09	
2	5.958	5.957	0.001	4577106	5.00	5.96	
						RPD = 2.25	
7 delta-BHC							
1	5.003	5.002	0.001	7925296	5.00	5.27	
2	6.581	6.582	-0.001	9135053	5.00	5.15	
						RPD = 2.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.174				ND	
1		6.062					
1		7.350					
1		7.687					
2		6.335					
2		7.961					
2		9.291					
2		9.588					
9 Heptachlor							
1	5.288	5.289	-0.001	8405900	5.00	5.76	
2	6.663	6.664	-0.001	9830060	5.00	5.81	
						RPD = 0.94	
10 Aldrin							
1	5.755	5.754	0.001	7744979	5.00	5.30	
2	7.469	7.469	0.000	8892732	5.00	5.32	
						RPD = 0.38	
11 Isodrin							
1		6.364				ND	
2		8.439					
12 Heptachlor epoxide							
1	7.031	7.029	0.002	7441396	5.00	5.71	
2	8.898	8.898	0.000	8206323	5.00	5.72	
						RPD = 0.17	
13 gamma-Chlordane							
1	7.346	7.346	0.000	7329165	5.00	5.43	
2	9.292	9.292	0.000	8124573	5.00	5.52	
						RPD = 1.76	
14 alpha-Chlordane							
1	7.691	7.691	0.000	7367384	5.00	5.51	
2	9.591	9.590	0.001	7848671	5.00	5.53	
						RPD = 0.32	
15 Endosulfan I							
1	7.965	7.964	0.001	7026701	5.00	5.72	
2	9.658	9.658	0.000	7553200	5.00	5.72	
						RPD = 0.16	
16 4,4'-DDE							
1	8.062	8.061	0.001	6525300	5.00	5.51	
2	10.016	10.016	0.000	7056155	5.00	5.34	
						RPD = 3.03	
17 Dieldrin							
1	8.517	8.516	0.001	7143366	5.00	5.46	
2	10.173	10.172	0.001	7343580	5.00	5.37	
						RPD = 1.76	
18 Endrin							
1	8.968	8.969	-0.001	6692124	5.00	5.81	
2	10.686	10.684	0.002	6807972	5.00	5.65	
						RPD = 2.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.029				ND	
2		10.841					
20 4,4'-DDD							
1	9.329	9.328	0.001	5370059	5.00	6.17	
2	11.009	11.008	0.001	5532052	5.00	5.65	
						RPD = 8.74	
21 Endosulfan II							
1	9.418	9.418	0.000	6800650	5.00	5.88	
2	11.055	11.054	0.001	6701104	5.00	5.73	
						RPD = 2.55	
22 Chlorobenzilate							
1		9.424				ND	
2		10.833					
24 Toxaphene							
1		9.626				ND	
1		10.087					
1		10.399					
1		10.741					
1		10.847					
2		11.033					
2		11.200					
2		11.624					
2		12.359					
2		12.449					
23 4,4'-DDT							
1	9.843	9.843	0.000	4611389	5.00	4.83	
2	11.490	11.490	0.000	4688019	5.00	4.70	
						RPD = 2.73	
25 Endrin aldehyde							
1	10.212	10.212	0.000	5362495	5.00	6.02	
2	11.613	11.613	0.000	5412189	5.00	5.80	
						RPD = 3.79	
26 Mirex							
1		10.665				ND	
2		12.622					
27 Methoxychlor							
1	10.794	10.792	0.002	2847993	5.00	6.22	
2	12.557	12.556	0.001	2802357	5.00	5.73	
						RPD = 8.15	
28 Endosulfan sulfate							
1	10.937	10.936	0.001	5989075	5.00	6.01	
2	12.035	12.034	0.001	6080937	5.00	5.74	
						RPD = 4.60	
29 Endrin ketone							
1	11.336	11.335	0.001	7079209	5.00	5.79	
2	12.779	12.778	0.001	6821789	5.00	5.56	
						RPD = 4.18	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.938	0.003	5901858	5.00	6.30	
2	14.496	14.496	0.000	6272345	5.00	6.16	
						RPD =	2.26

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

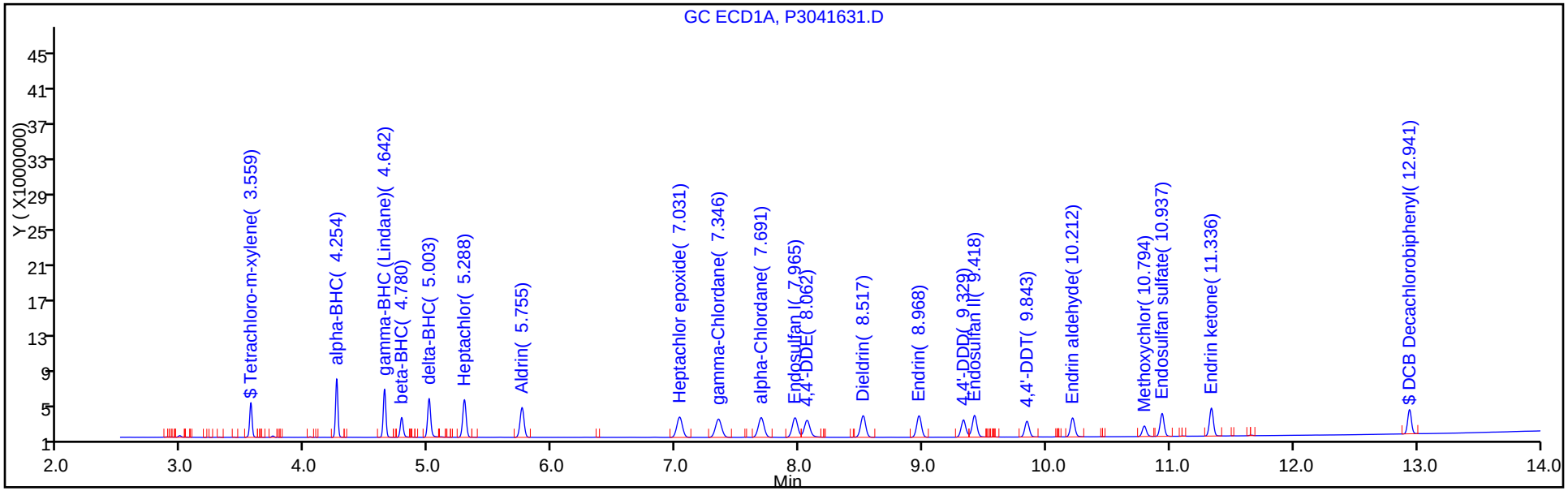
Report Date: 17-Apr-2015 08:38:11 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

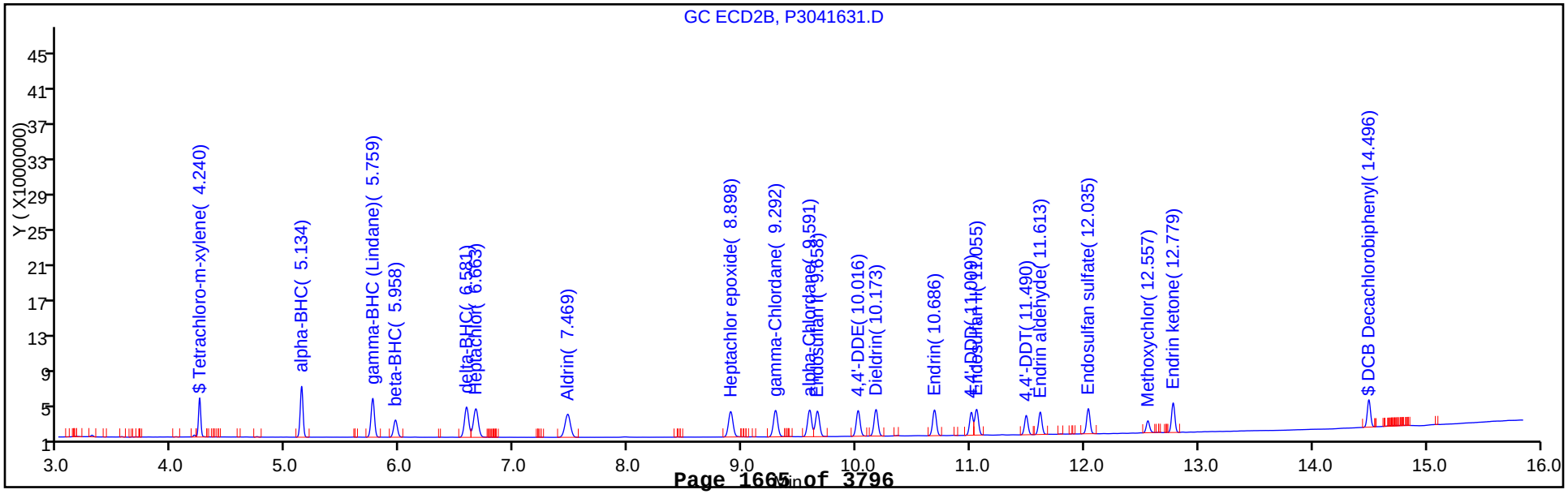
Data File: \\NCChrom\ChromData\A2HP3\20150416-42625.b\P3041631.D

Injection Date:	17-Apr-2015 01:19:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/29

Matrix: Solid Lab File ID: P3042129.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:35

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	171		2.0	83	16

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:35:39 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-029
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:29:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					
21 Endosulfan II							
1		9.413				ND	
2		11.051					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.622	9.622	0.000	6841047	200.0	180.8	M
1	10.083	10.081	0.002	6802579	200.0	185.6	M
1	10.396	10.393	0.003	3849960	200.0	164.8	M
1	10.738	10.735	0.003	6161840	200.0	185.7	M
1	10.846	10.840	0.006	4432890	200.0	137.1	M
		Average of Peak Amounts =				170.8	
2	11.026	11.025	0.001	9566982	200.0	184.6	
2	11.196	11.195	0.001	9701611	200.0	190.4	
2	11.621	11.618	0.003	6078519	200.0	170.5	
2	12.355	12.353	0.002	6252942	200.0	137.0	
2	12.443	12.444	-0.001	1692638	200.0	108.7	
		Average of Peak Amounts =				158.3	
						RPD = 7.64	
23 4,4'-DDT							
1		9.840				ND	
2		11.488					
25 Endrin aldehyde							
1		10.209				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.792				ND	
2		12.555					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.032					
29 Endrin ketone							
1		11.334				ND	
2		12.776					
$ 30 DCB Decachlorobiphenyl							
1	12.948	12.940	0.008	9051		0.009665	
2	14.487	14.493	-0.006	25156		0.0247	
						RPD = 87.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

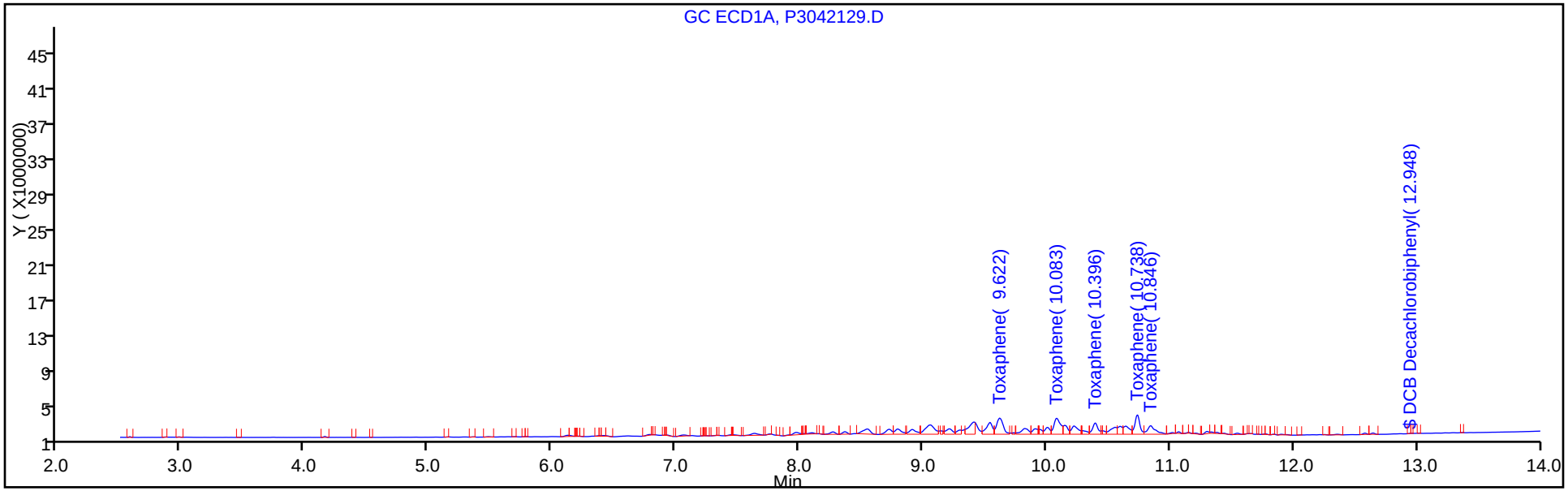
Report Date: 22-Apr-2015 08:58:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

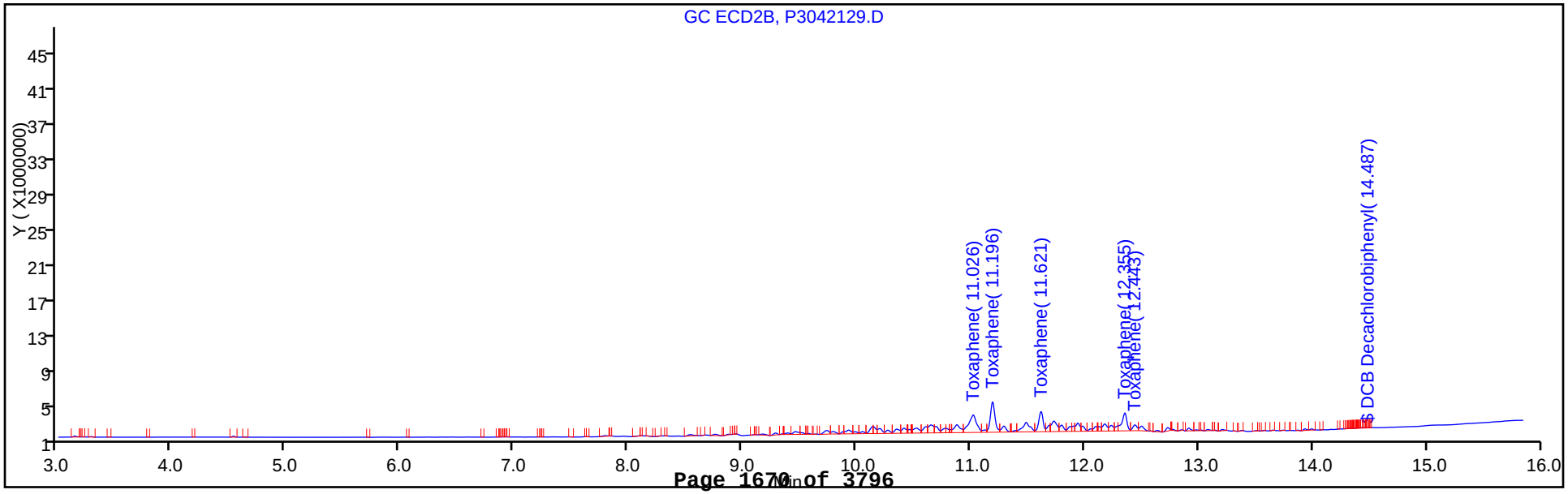
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date:	21-Apr-2015 23:35:39	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date: 21-Apr-2015 23:35:39 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 29 Worklist Smp#: 29

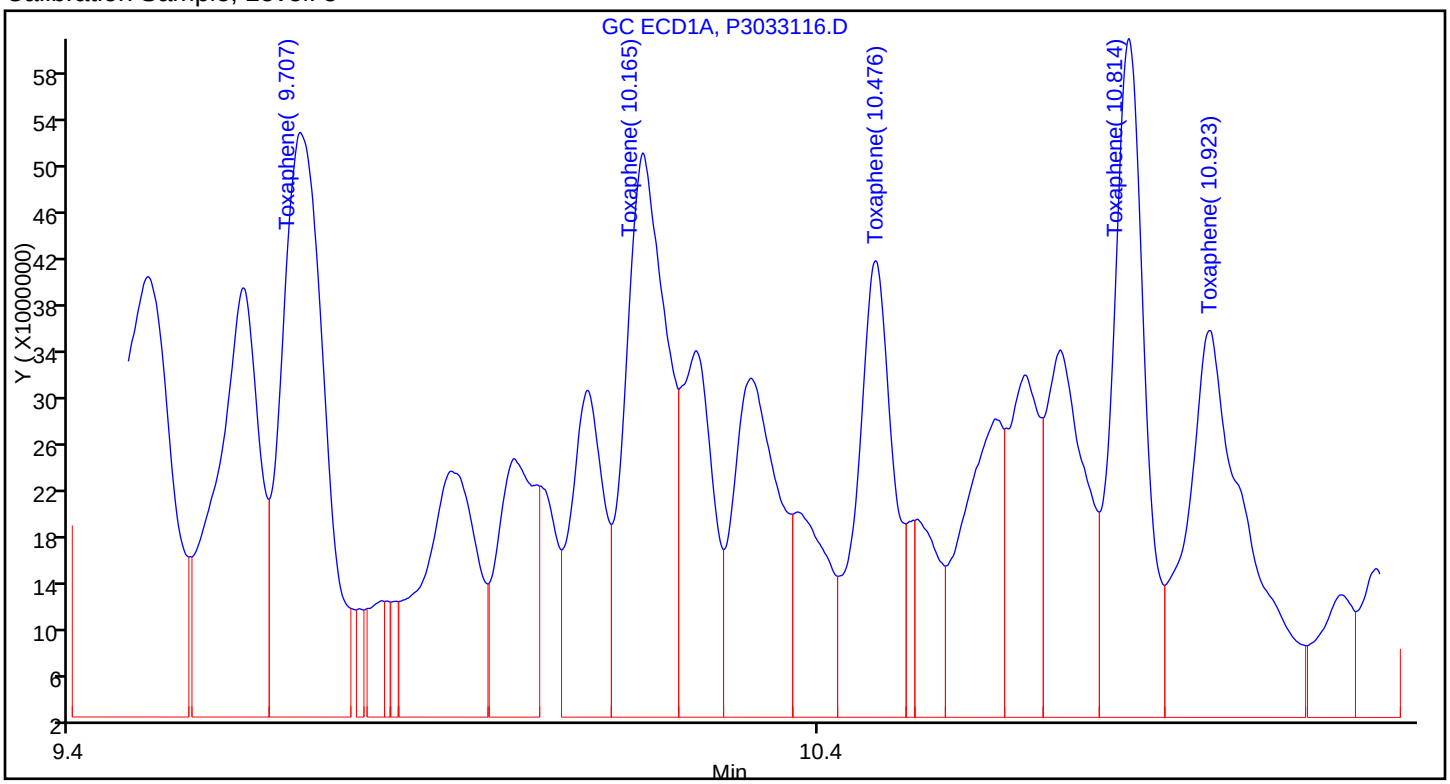
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

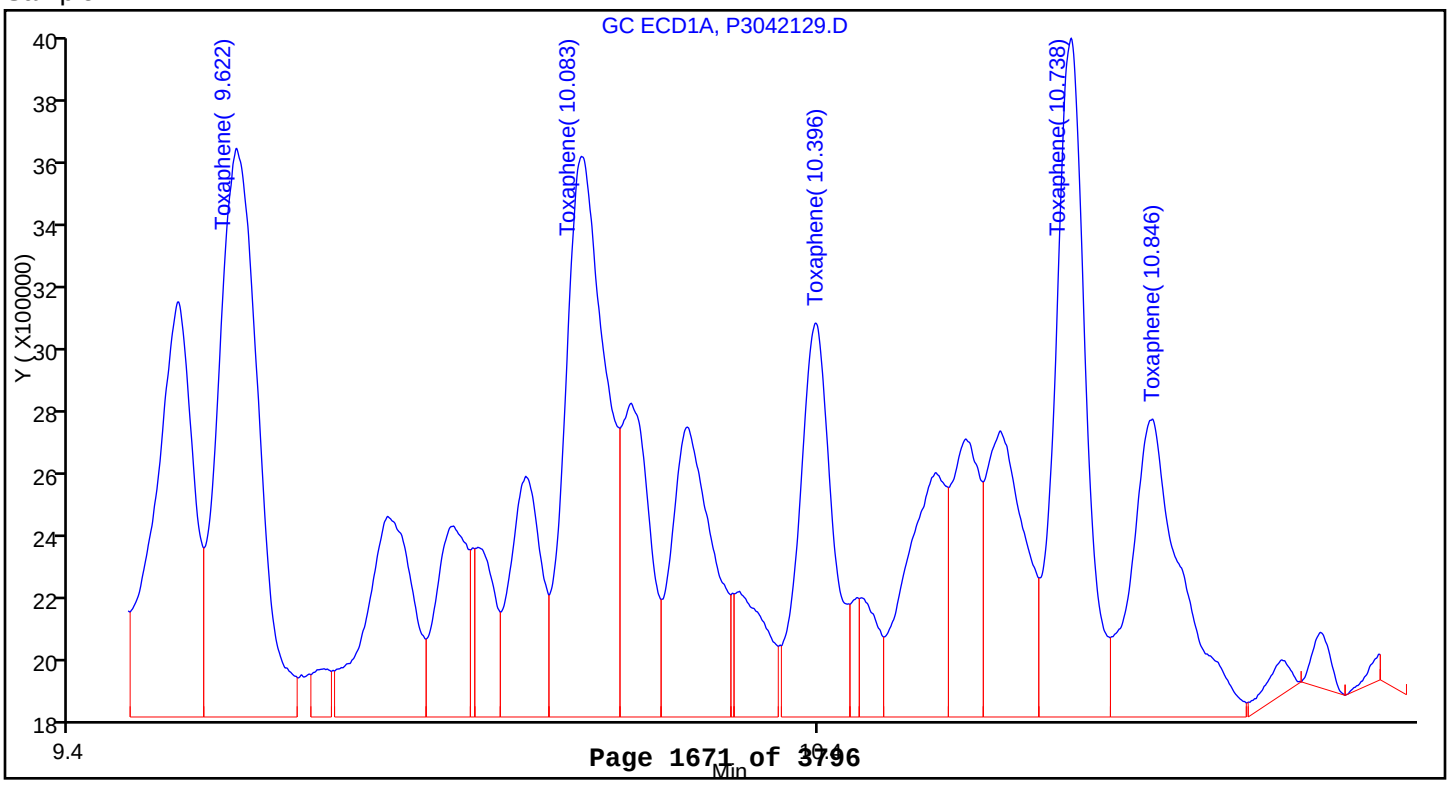
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date: 21-Apr-2015 23:35:39 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

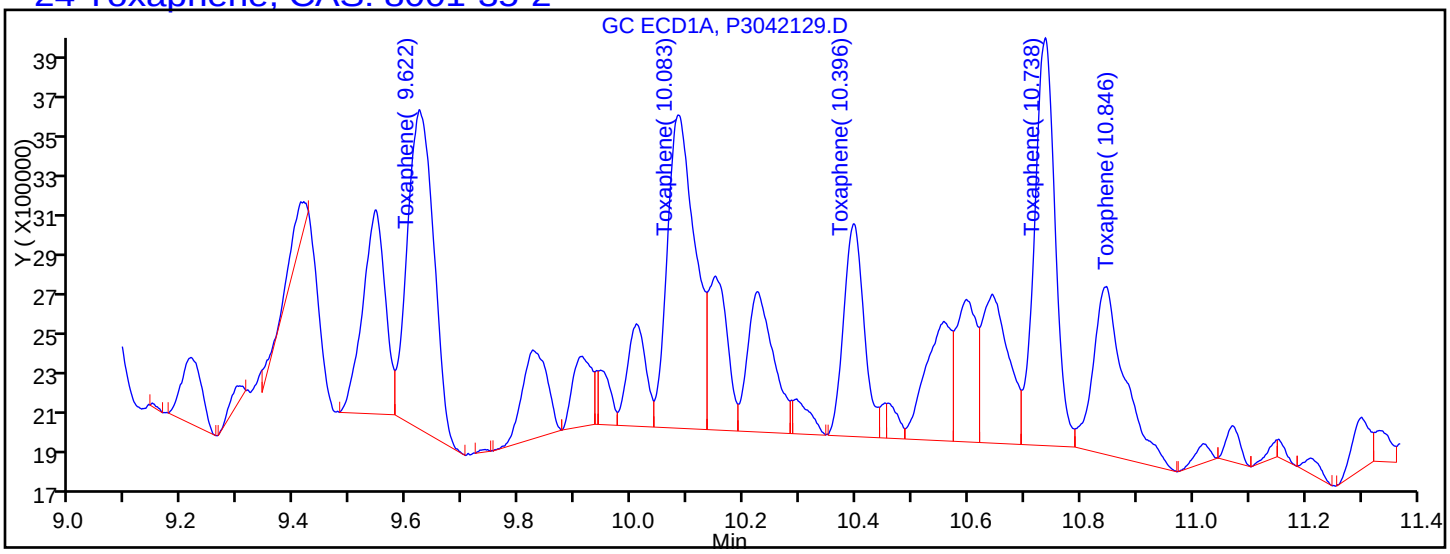
Operator ID: 430893 ALS Bottle#: 29 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

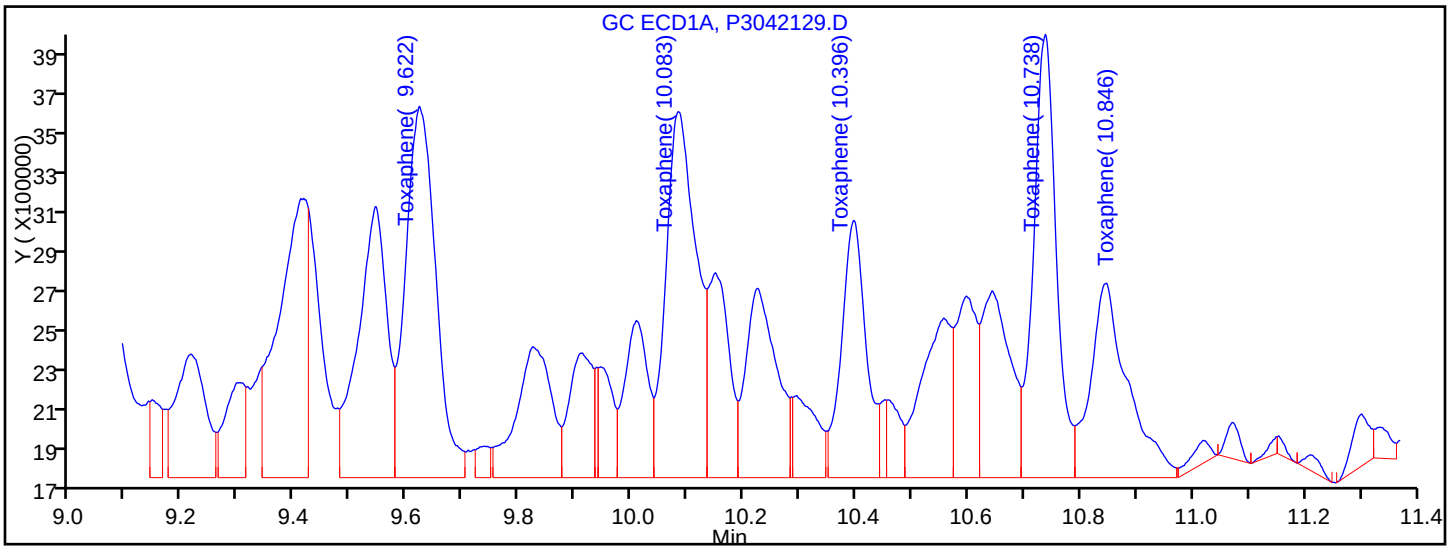
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.622	Response = 5151755	M
RT = 10.083	Response = 5329052	M
RT = 10.396	Response = 2650437	M
RT = 10.738	Response = 5168082	M
RT = 10.846	Response = 3280313	M



Manual Integration Results

RT = 9.622	Response = 6841047	M
RT = 10.083	Response = 6802579	M
RT = 10.396	Response = 3849960	M
RT = 10.738	Response = 6161840	M
RT = 10.846	Response = 4432890	M

Reviewer: matthewsb, 22-Apr-2015 07:29:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/29

Matrix: Solid Lab File ID: P3042129.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:35

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*158*		*2.0*	83	*16*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:35:39 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-029
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:29:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					
21 Endosulfan II							
1		9.413				ND	
2		11.051					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.622	9.622	0.000	6841047	200.0	180.8	M
1	10.083	10.081	0.002	6802579	200.0	185.6	M
1	10.396	10.393	0.003	3849960	200.0	164.8	M
1	10.738	10.735	0.003	6161840	200.0	185.7	M
1	10.846	10.840	0.006	4432890	200.0	137.1	M
		Average of Peak Amounts =				170.8	
2	11.026	11.025	0.001	9566982	200.0	184.6	
2	11.196	11.195	0.001	9701611	200.0	190.4	
2	11.621	11.618	0.003	6078519	200.0	170.5	
2	12.355	12.353	0.002	6252942	200.0	137.0	
2	12.443	12.444	-0.001	1692638	200.0	108.7	
		Average of Peak Amounts =				158.3	
						RPD = 7.64	
23 4,4'-DDT							
1		9.840				ND	
2		11.488					
25 Endrin aldehyde							
1		10.209				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.792				ND	
2		12.555					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.032					
29 Endrin ketone							
1		11.334				ND	
2		12.776					
$ 30 DCB Decachlorobiphenyl							
1	12.948	12.940	0.008	9051		0.009665	
2	14.487	14.493	-0.006	25156		0.0247	
						RPD = 87.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

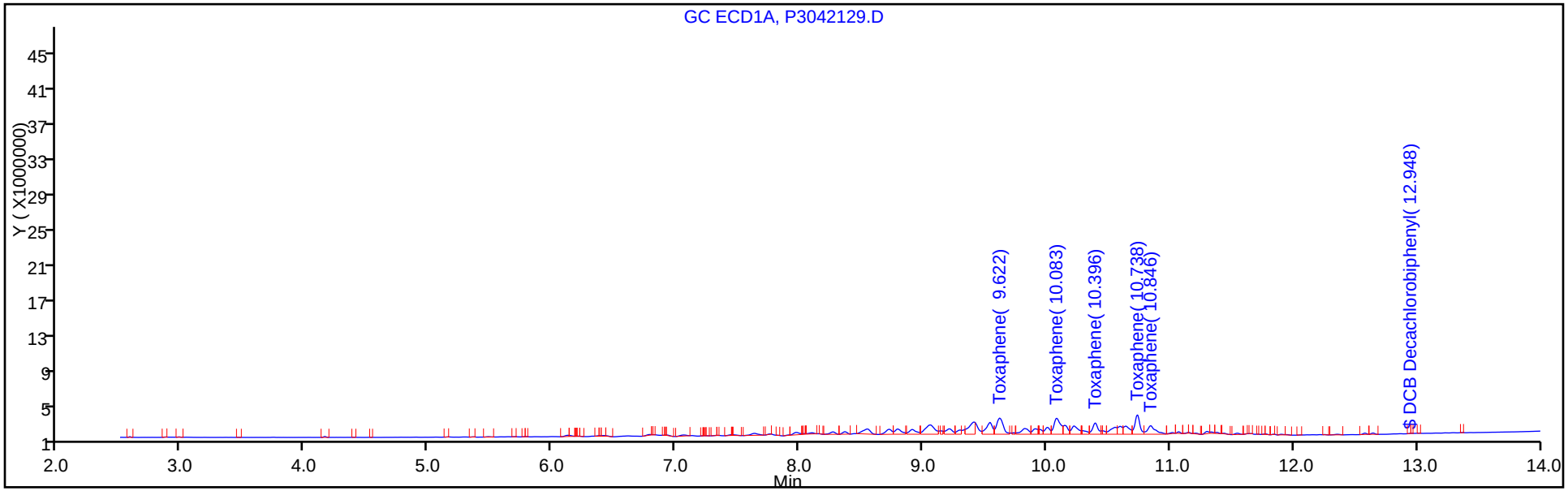
Report Date: 22-Apr-2015 08:58:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

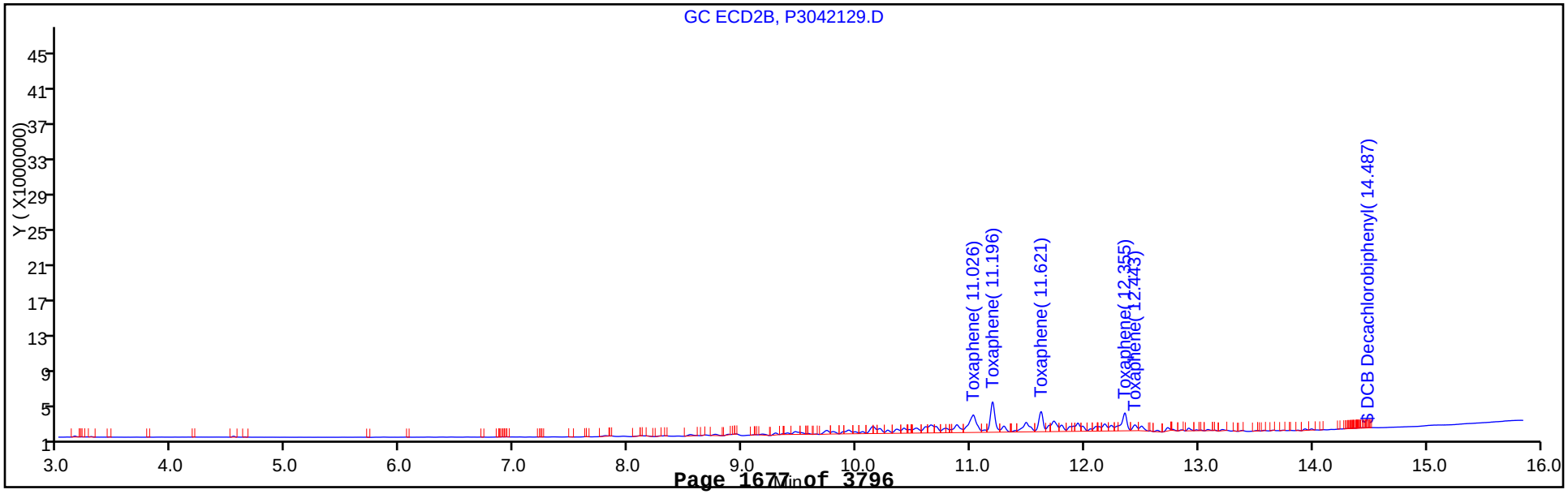
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date:	21-Apr-2015 23:35:39	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date: 21-Apr-2015 23:35:39 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 29 Worklist Smp#: 29

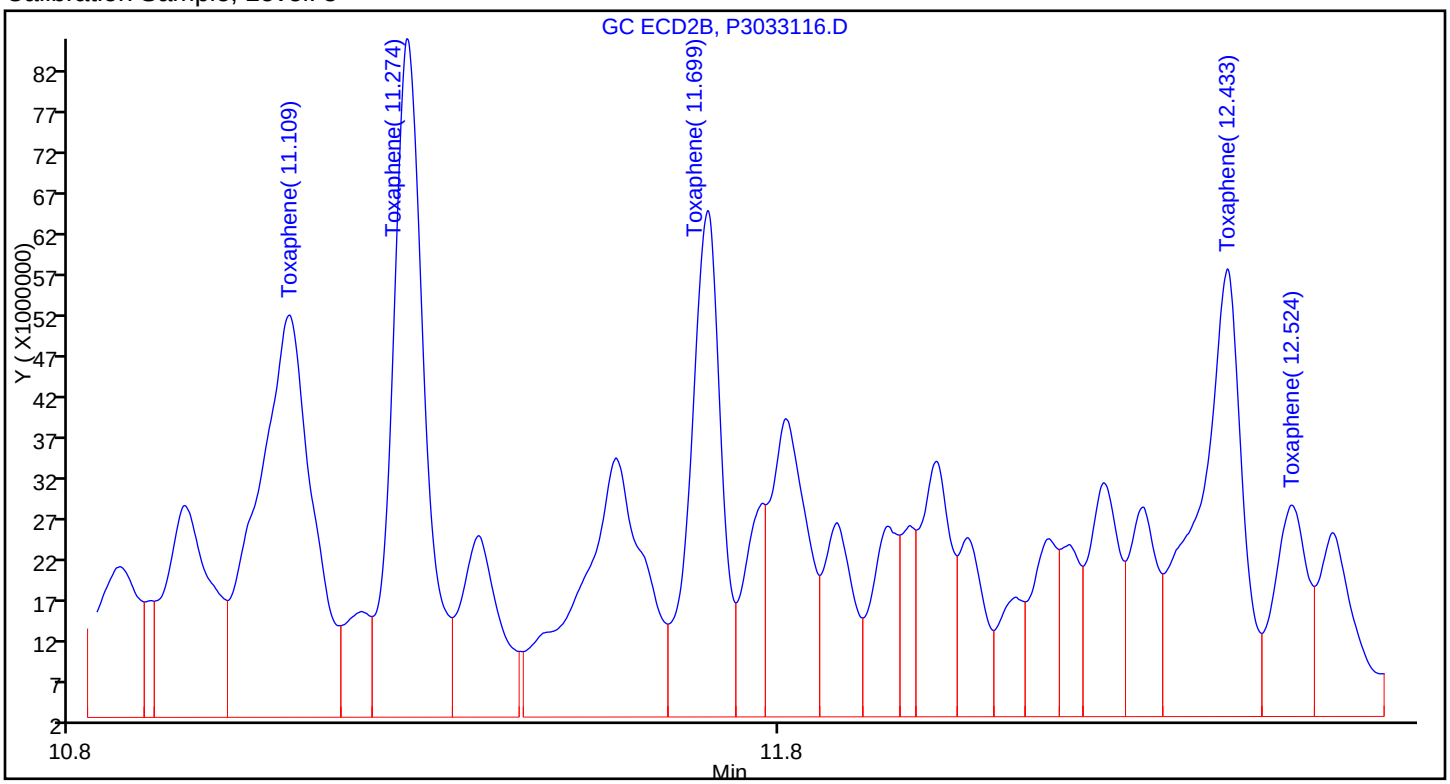
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

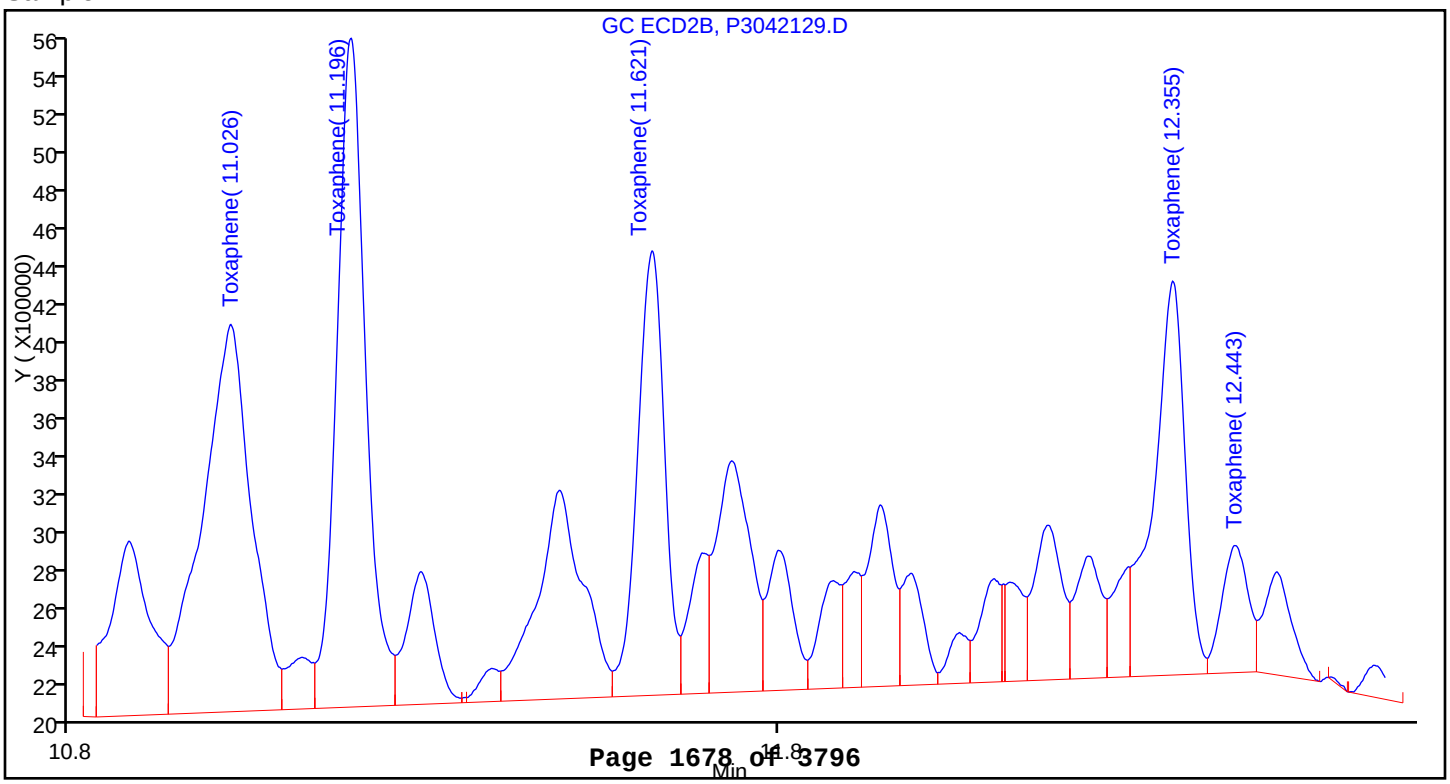
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/30

Matrix: Solid Lab File ID: P3042130.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:58

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	24.1		0.50	6.7	2.8

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042130.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:58:51 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-030
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:30:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							M
1	5.168	5.166	0.002	1049867	20.0	24.5	
1	6.055	6.055	0.000	1287900	20.0	26.1	
1	7.339	7.339	0.000	3791776	20.0	22.7	M
1	7.679	7.677	0.002	5938620	20.0	22.8	
		Average of Peak Amounts =				24.1	
2	6.327	6.325	0.002	1287963	20.0	26.3	
2	7.950	7.950	0.000	1527664	20.0	26.4	
2	9.284	9.283	0.001	4126872	20.0	23.3	
2	9.583	9.581	0.002	3755867	20.0	23.7	
		Average of Peak Amounts =				24.9	
						RPD = 3.60	
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							M
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1	9.413					ND	
2	11.051						
22 Chlorobenzilate							
1	9.422					ND	
2	10.829						
24 Toxaphene							
1	9.622					ND	
1	10.081						
1	10.393						
1	10.735						
1	10.840						
2	11.025						
2	11.195						
2	11.618						
2	12.353						
2	12.444						
23 4,4'-DDT							
1	9.840					ND	
2	11.488						
25 Endrin aldehyde							
1	10.209					ND	
2	11.609						
26 Mirex							
1	10.663					ND	
2	12.669						
27 Methoxychlor							
1	10.792					ND	
2	12.555						
28 Endosulfan sulfate							
1	10.933					ND	
2	12.032						
29 Endrin ketone							
1	11.334					ND	
2	12.776						
$ 30 DCB Decachlorobiphenyl							
1	12.940					ND	
2	14.493						

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

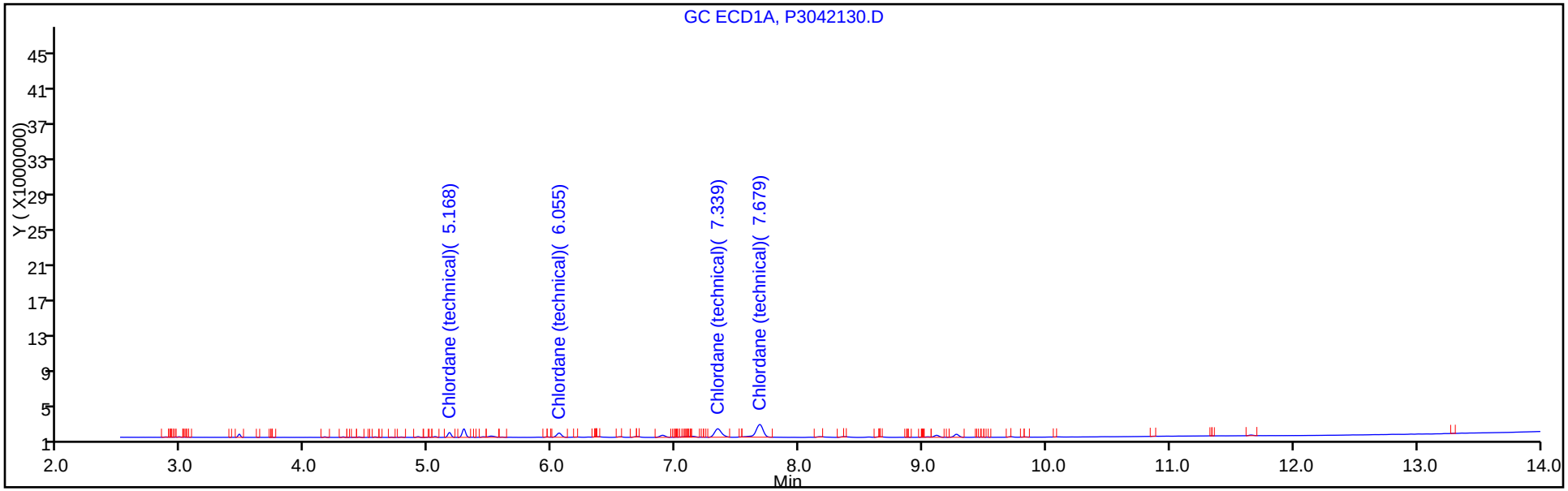
Report Date: 22-Apr-2015 08:58:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

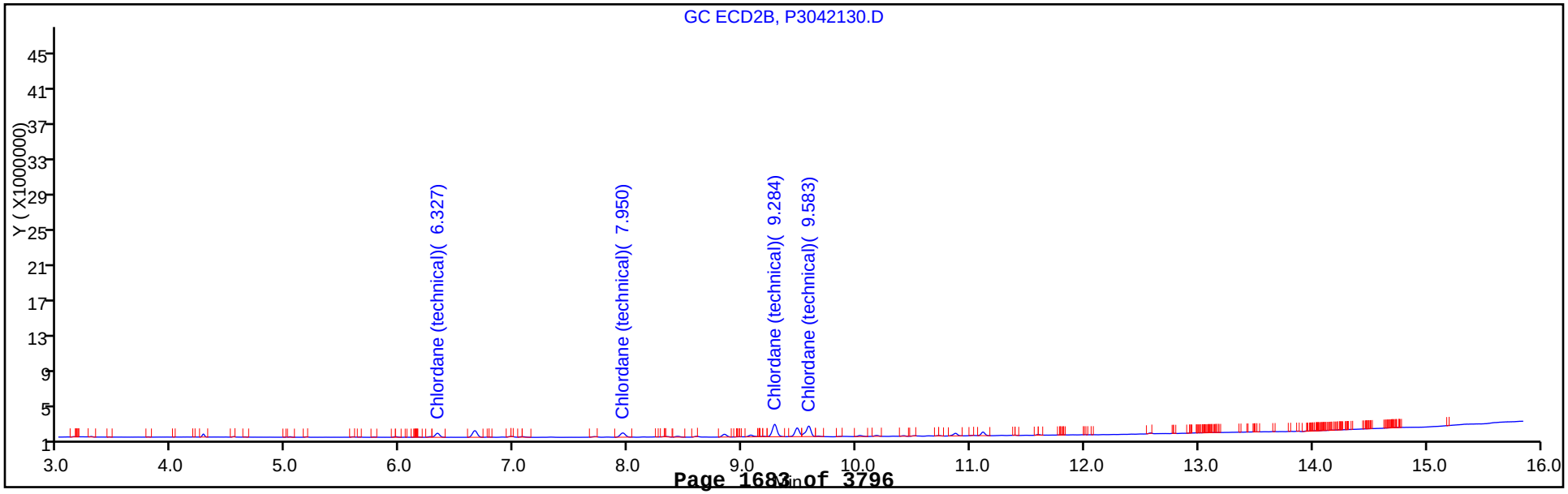
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042130.D

Injection Date:	21-Apr-2015 23:58:51	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

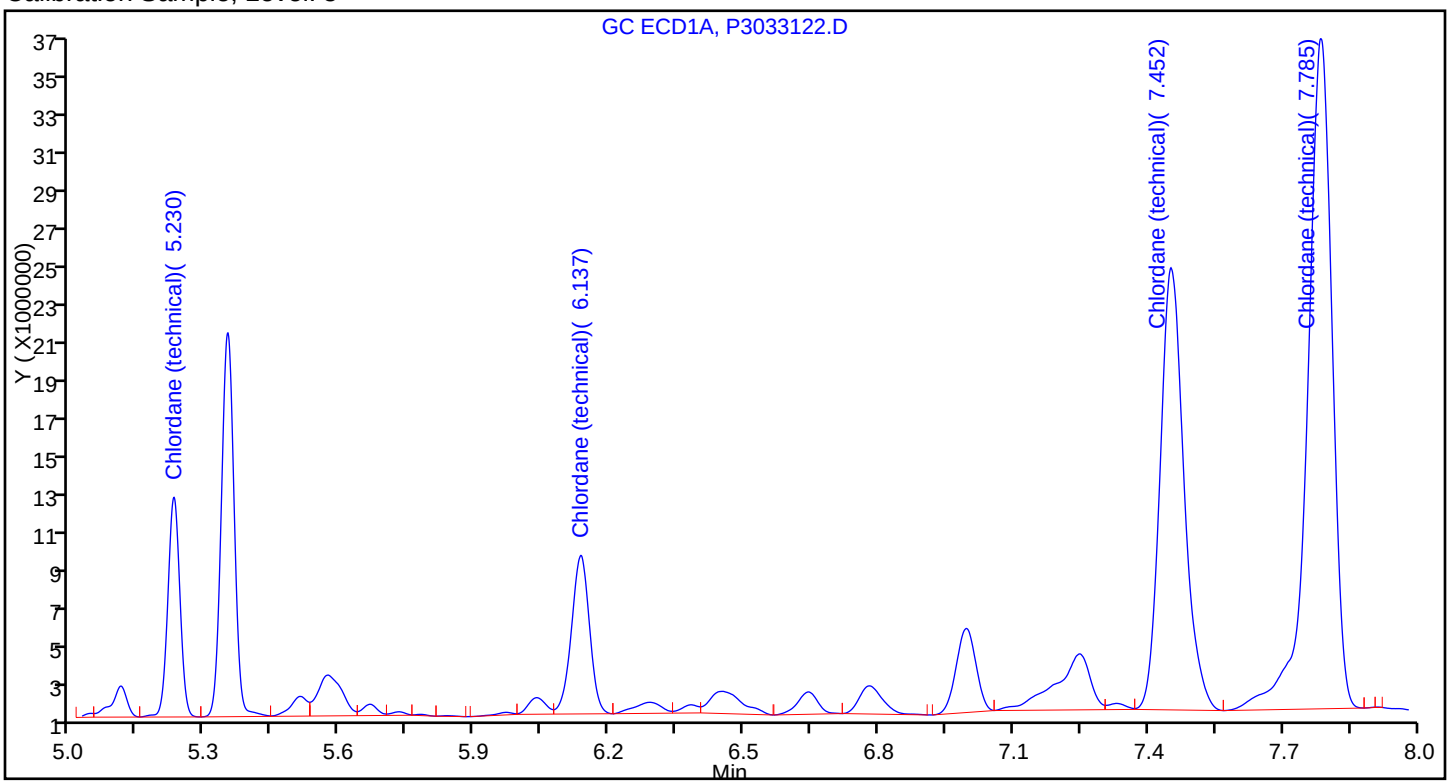
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042130.D

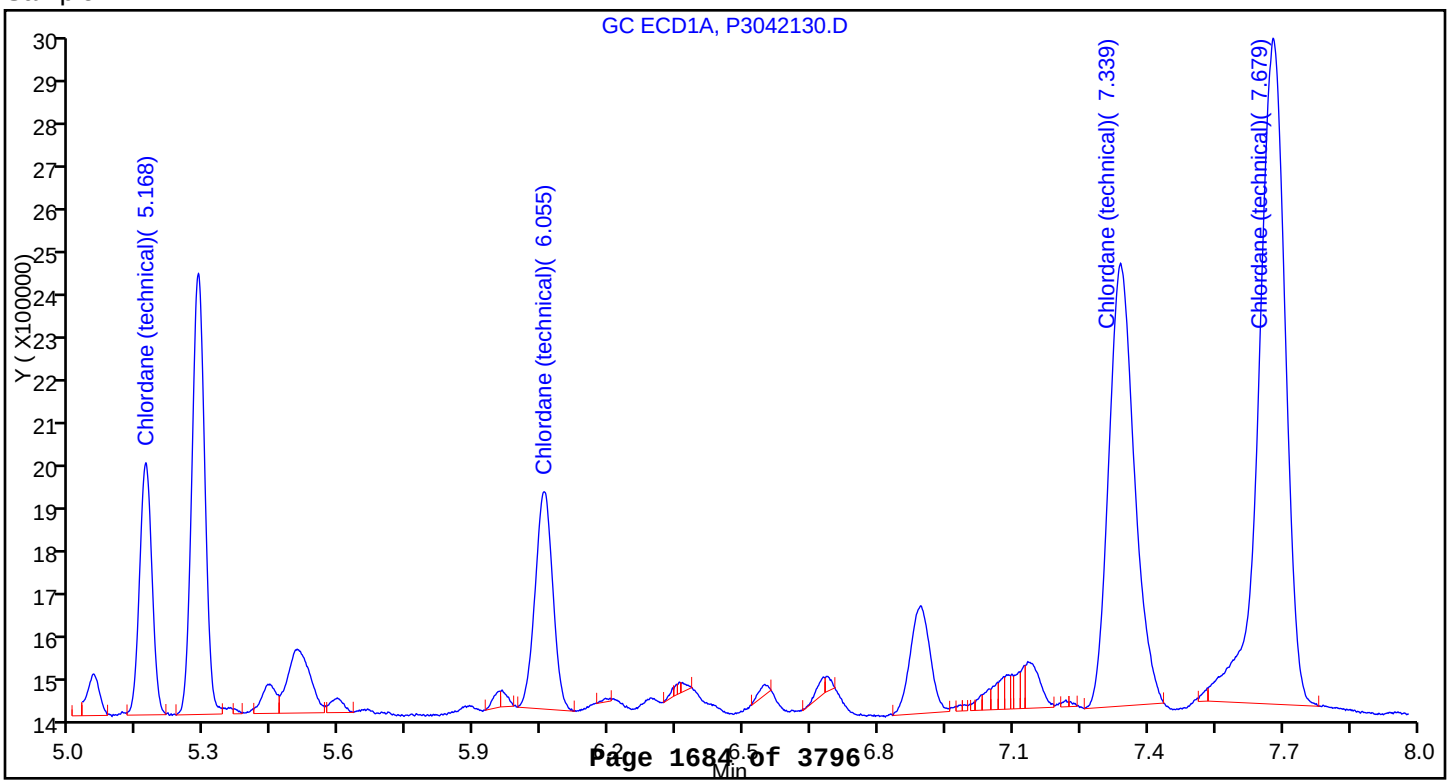
Injection Date:	21-Apr-2015 23:58:51	Instrument ID:	A2HP3		
Lims ID:	MRL TC				
Client ID:					
Operator ID:	430893	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ECD1A		

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042130.D

Injection Date: 21-Apr-2015 23:58:51 Instrument ID: A2HP3

Lims ID: MRL TC

Client ID:

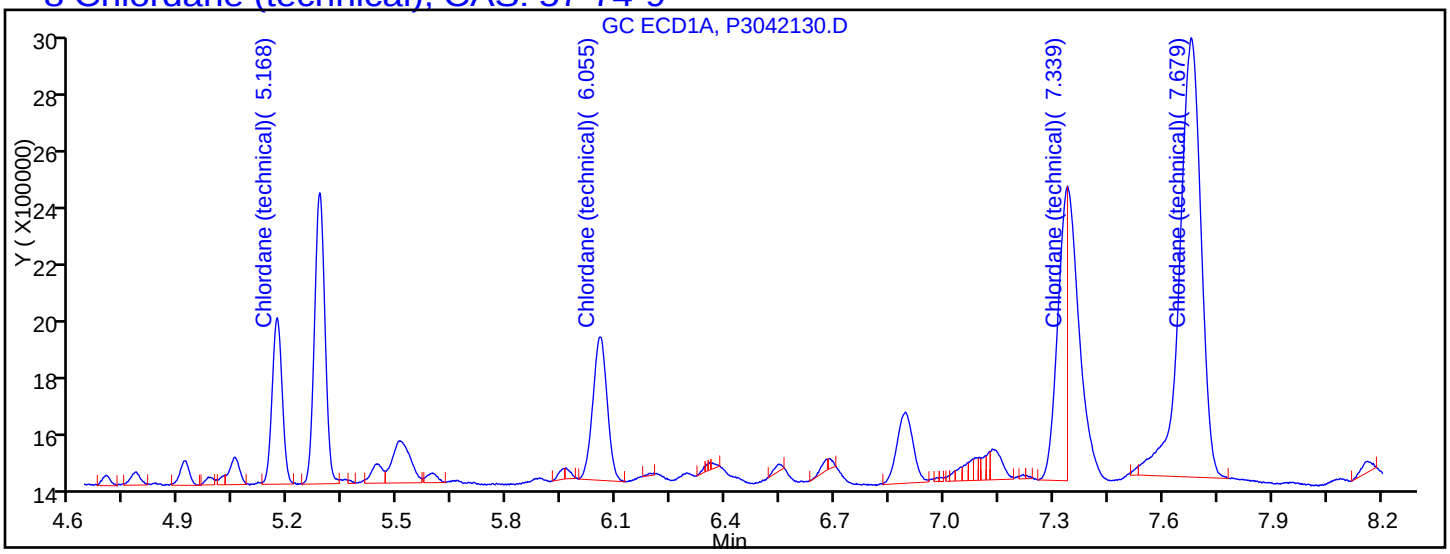
Operator ID: 430893 ALS Bottle#: 30 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

Column: Detector GC ECD1A

8 Chlordane (technical), CAS: 57-74-9



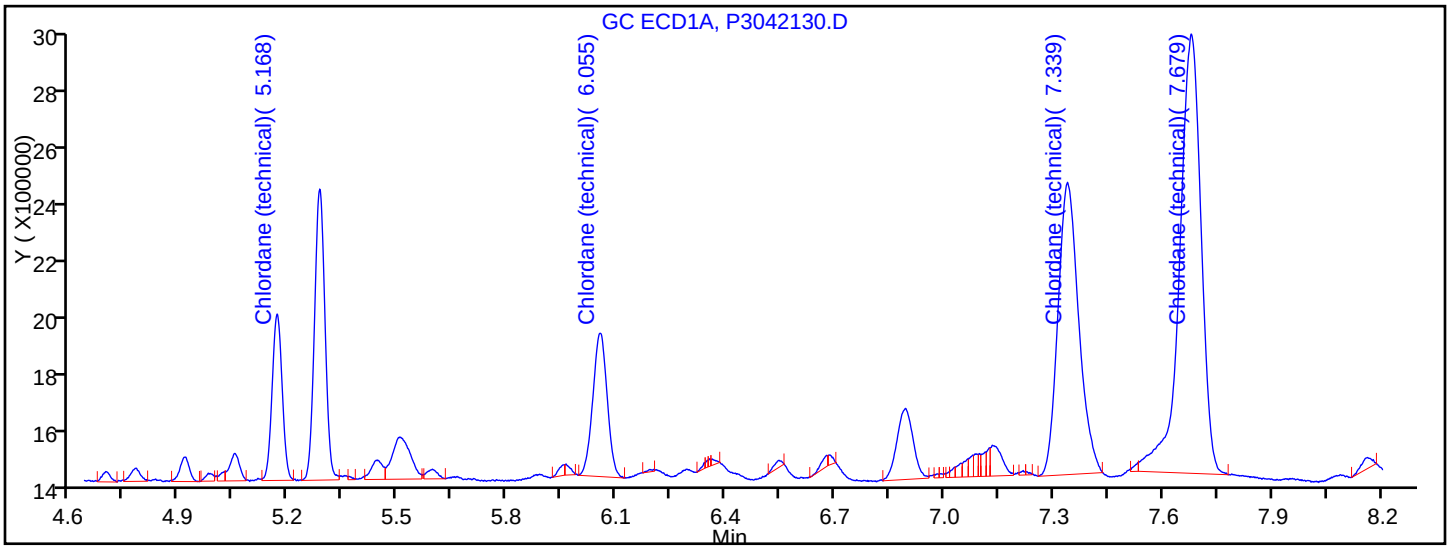
Processing Integration Results

RT = 5.168 Response = 1049867

RT = 6.055 Response = 1287900

RT = 7.339 Response = 1727934 M

RT = 7.679 Response = 5938620



Manual Integration Results

RT = 5.168 Response = 1049867

RT = 6.055 Response = 1287900

RT = 7.339 Response = 3791776 M

RT = 7.679 Response = 5938620

Reviewer: matthewsb, 22-Apr-2015 07:30:32

Audit Action: Manually Integrated

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/30

Matrix: Solid Lab File ID: P3042130.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:58

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	*Chlordane (technical)*	*24.9*		*0.50*	6.7	*2.8*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042130.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:58:51 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-030
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:30:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							M
1	5.168	5.166	0.002	1049867	20.0	24.5	
1	6.055	6.055	0.000	1287900	20.0	26.1	
1	7.339	7.339	0.000	3791776	20.0	22.7	M
1	7.679	7.677	0.002	5938620	20.0	22.8	
		Average of Peak Amounts =				24.1	
2	6.327	6.325	0.002	1287963	20.0	26.3	
2	7.950	7.950	0.000	1527664	20.0	26.4	
2	9.284	9.283	0.001	4126872	20.0	23.3	
2	9.583	9.581	0.002	3755867	20.0	23.7	
		Average of Peak Amounts =				24.9	
						RPD = 3.60	
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							M
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1	9.413					ND	
2	11.051						
22 Chlorobenzilate							
1	9.422					ND	
2	10.829						
24 Toxaphene							
1	9.622					ND	
1	10.081						
1	10.393						
1	10.735						
1	10.840						
2	11.025						
2	11.195						
2	11.618						
2	12.353						
2	12.444						
23 4,4'-DDT							
1	9.840					ND	
2	11.488						
25 Endrin aldehyde							
1	10.209					ND	
2	11.609						
26 Mirex							
1	10.663					ND	
2	12.669						
27 Methoxychlor							
1	10.792					ND	
2	12.555						
28 Endosulfan sulfate							
1	10.933					ND	
2	12.032						
29 Endrin ketone							
1	11.334					ND	
2	12.776						
$ 30 DCB Decachlorobiphenyl							
1	12.940					ND	
2	14.493						

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

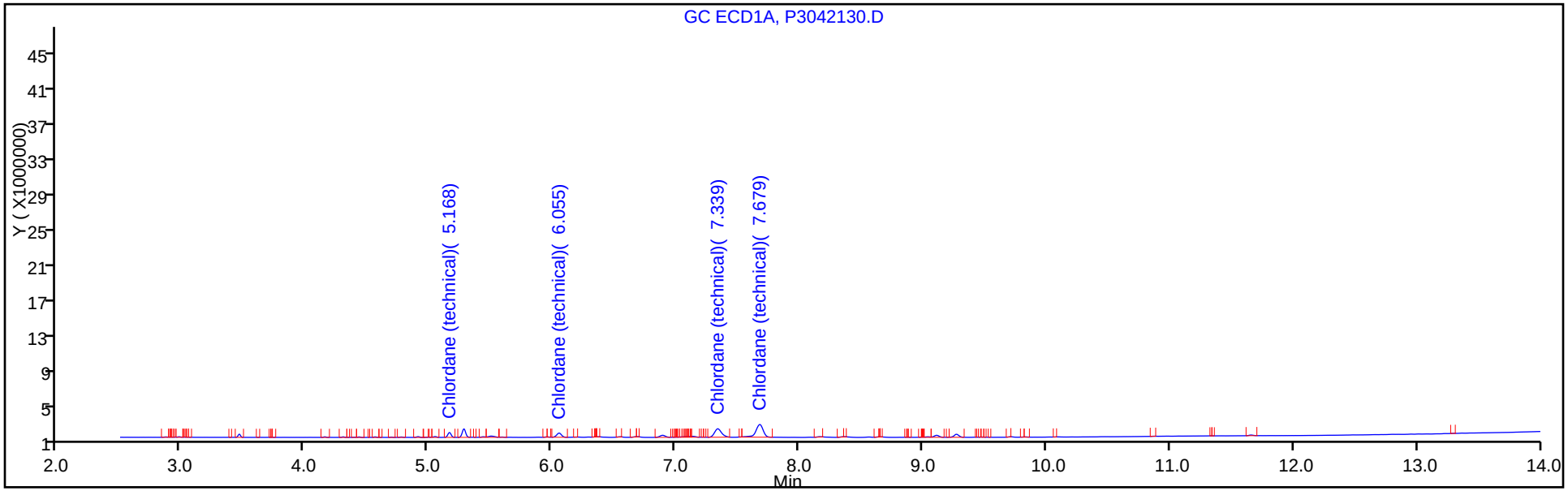
Report Date: 22-Apr-2015 08:58:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

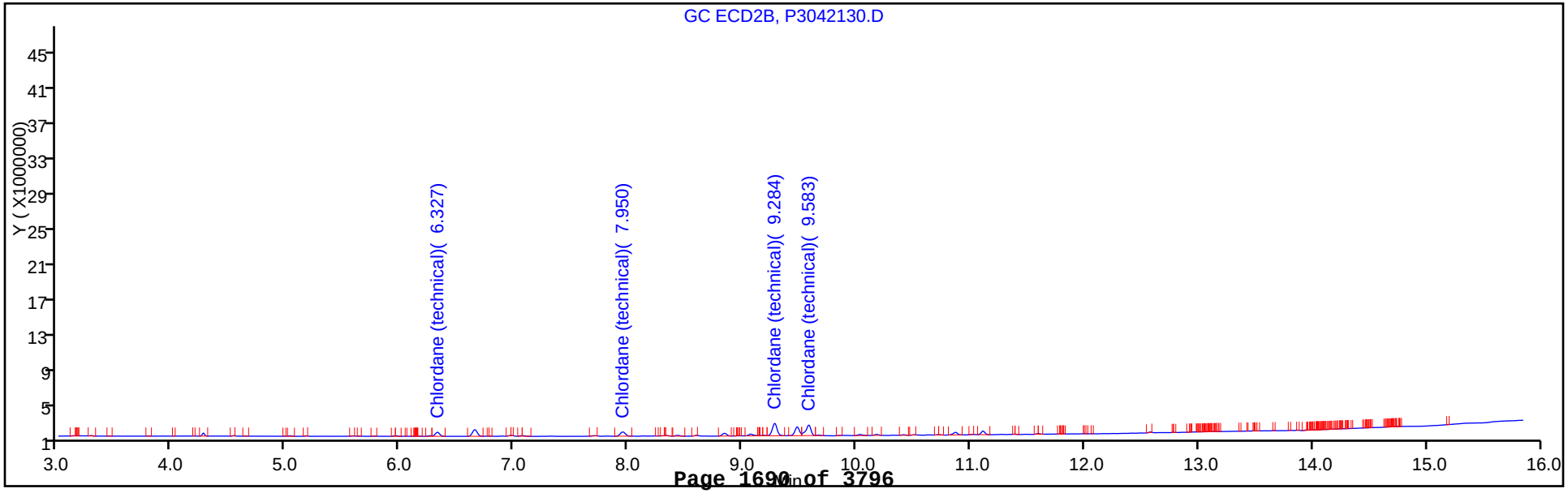
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042130.D

Injection Date:	21-Apr-2015 23:58:51	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042130.D

Injection Date: 21-Apr-2015 23:58:51 Instrument ID: A2HP3

Lims ID: MRL TC

Client ID:

Operator ID: 430893 ALS Bottle#: 30 Worklist Smp#: 30

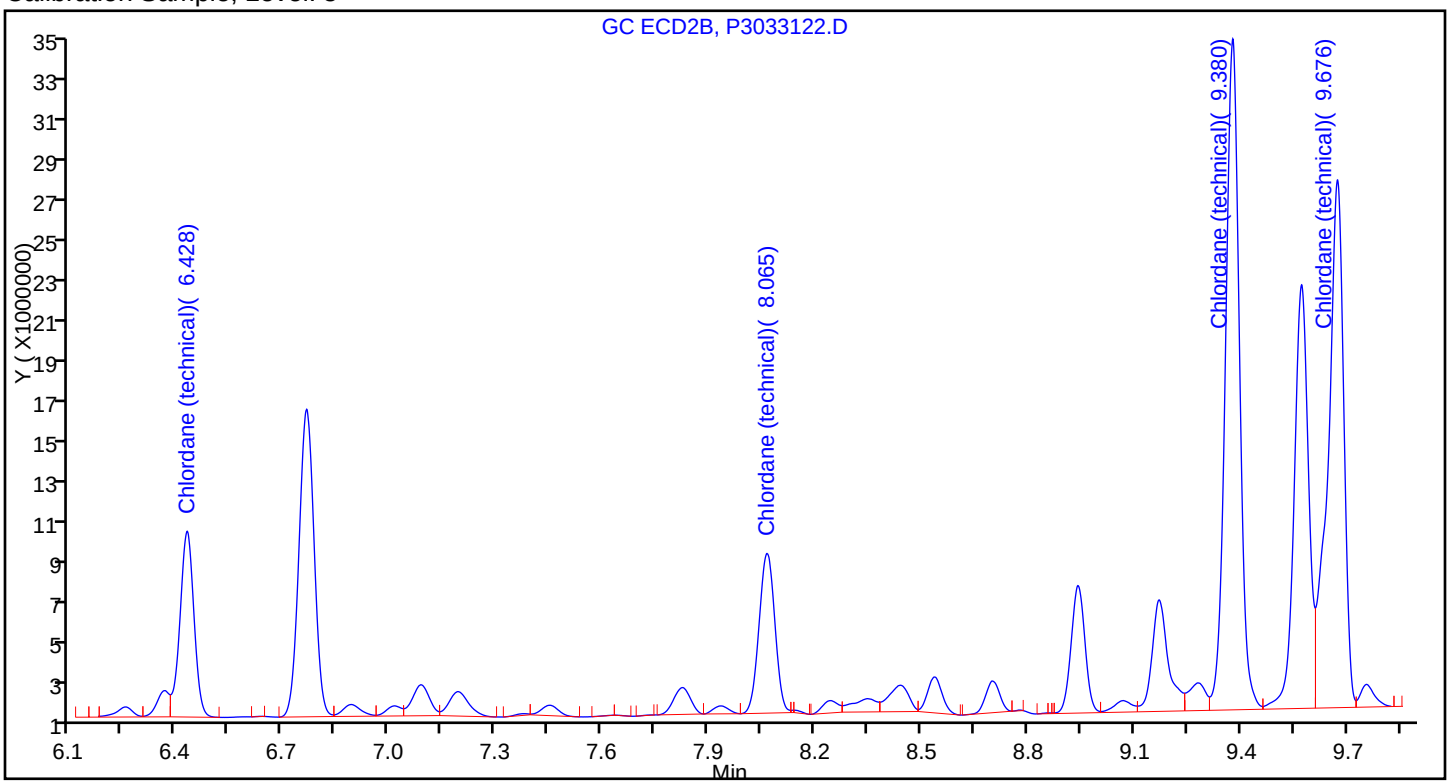
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

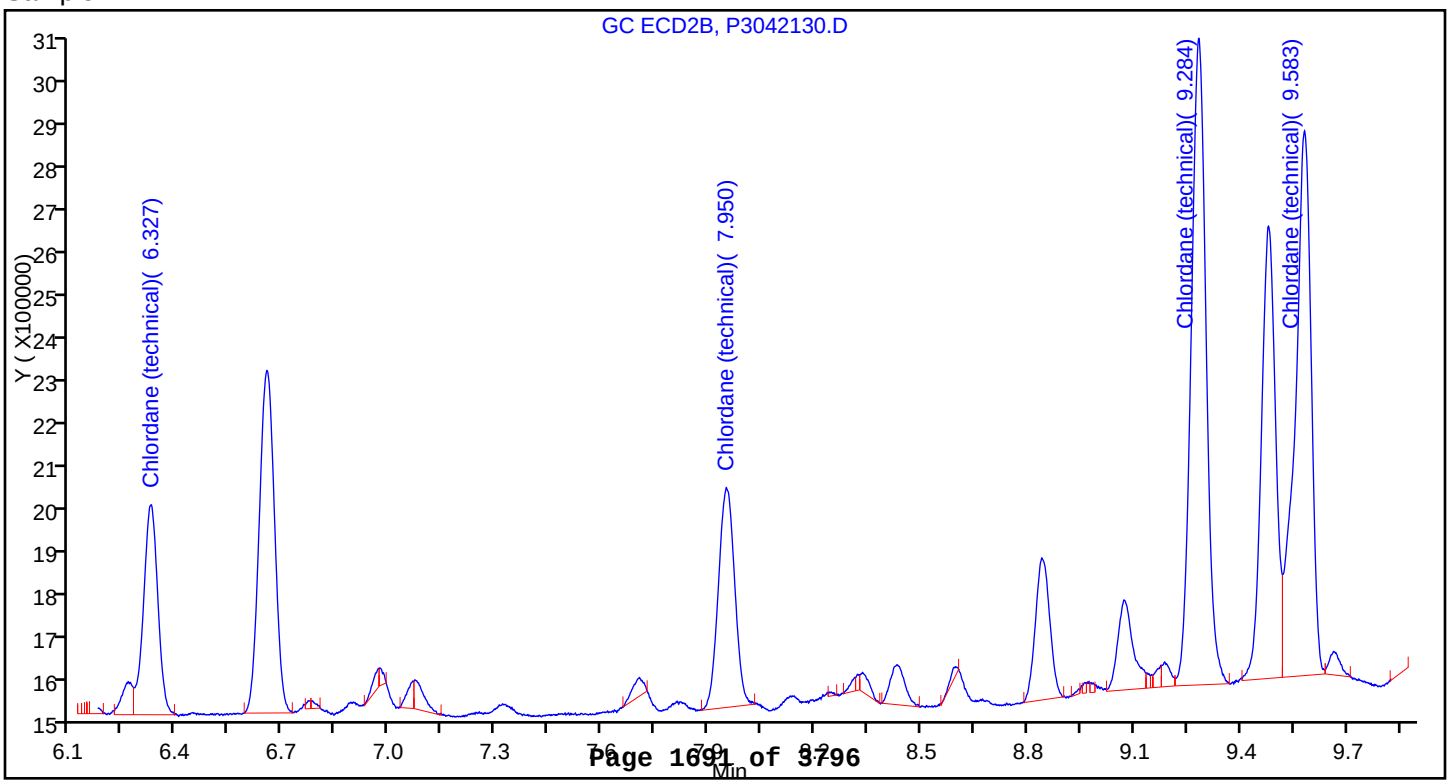
Column: Detector GC ecd2b

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177258/31

Matrix: Solid | Lab File ID: P3042131.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 00:22

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	Endrin	5.75		0.050	4.2	1.0
58-89-9	gamma-BHC (Lindane)	5.48		0.050	4.2	1.0
76-44-8	Heptachlor	5.88		0.050	4.2	0.42
1024-57-3	Heptachlor epoxide	5.86		0.050	4.2	1.2
72-43-5	Methoxychlor	5.97		0.10	4.2	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	123		50-150
877-09-8	Tetrachloro-m-xylene	116		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 00:22:12 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-031
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.554	0.002	5725930	5.00	5.82	
2	4.234	4.235	-0.001	6746827	5.00	5.99	
						RPD = 2.79	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.251	4.250	0.001	9222761	5.00	5.33	
2	5.128	5.129	-0.001	10589950	5.00	5.41	
						RPD = 1.57	
5 gamma-BHC (Lindane)							
1	4.638	4.639	-0.001	8464116	5.00	5.48	
2	5.751	5.752	-0.001	9801144	5.00	5.54	
						RPD = 1.02	
6 beta-BHC							
1	4.777	4.776	0.001	3845003	5.00	6.10	
2	5.950	5.951	-0.001	4698715	5.00	6.12	
						RPD = 0.17	
7 delta-BHC							
1	4.999	4.999	0.000	7611876	5.00	5.07	
2	6.573	6.574	-0.001	9263730	5.00	5.22	
						RPD = 3.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.284	0.001	8584429	5.00	5.88	
2	6.652	6.654	-0.002	10345377	5.00	6.12	
						RPD = 3.94	
10 Aldrin							
1	5.750	5.750	0.000	8029918	5.00	5.49	
2	7.457	7.460	-0.003	9349319	5.00	5.59	
						RPD = 1.77	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.023	0.002	7639658	5.00	5.86	
2	8.891	8.891	0.000	8607207	5.00	6.00	
						RPD = 2.31	
13 gamma-Chlordane							
1	7.340	7.339	0.001	7483907	5.00	5.54	
2	9.285	9.285	0.000	8488299	5.00	5.77	
						RPD = 4.05	
14 alpha-Chlordane							
1	7.685	7.684	0.001	7569272	5.00	5.66	
2	9.583	9.584	-0.001	8203936	5.00	5.78	
						RPD = 2.05	
15 Endosulfan I							
1	7.961	7.959	0.002	7195680	5.00	5.86	
2	9.652	9.653	-0.001	7929788	5.00	6.00	
						RPD = 2.33	
16 4,4'-DDE							
1	8.061	8.057	0.004	6458444	5.00	5.45	
2	10.012	10.012	0.000	7422072	5.00	5.62	
						RPD = 3.06	
17 Dieldrin							
1	8.512	8.510	0.002	7337526	5.00	5.61	
2	10.166	10.168	-0.002	7951043	5.00	5.81	
						RPD = 3.51	
18 Endrin							
1	8.965	8.963	0.002	6616084	5.00	5.75	
2	10.681	10.681	0.000	7005609	5.00	5.81	
						RPD = 1.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.326	0.004	4668940	5.00	5.36	
2	11.006	11.006	0.000	5155938	5.00	5.27	
						RPD = 1.80	
21 Endosulfan II							
1	9.415	9.413	0.002	7180990	5.00	6.21	
2	11.049	11.051	-0.002	7523870	5.00	6.43	
						RPD = 3.59	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.842	9.840	0.002	4659601	5.00	4.88	
2	11.487	11.488	-0.001	4979806	5.00	4.99	
						RPD = 2.26	
25 Endrin aldehyde							
1	10.210	10.209	0.001	5367576	5.00	6.03	
2	11.608	11.609	-0.001	5665725	5.00	6.07	
						RPD = 0.69	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.794	10.792	0.002	2734003	5.00	5.97	
2	12.554	12.555	-0.001	2957679	5.00	6.05	
						RPD = 1.32	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	6034111	5.00	6.06	
2	12.030	12.032	-0.002	6478500	5.00	6.12	
						RPD = 0.98	
29 Endrin ketone							
1	11.335	11.334	0.001	7185279	5.00	5.88	
2	12.774	12.776	-0.002	7144288	5.00	5.82	
						RPD = 1.05	

Report Date: 22-Apr-2015 08:58:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.940	0.001	5775402	5.00	6.17	
2	14.493	14.493	0.000	6239737	5.00	6.13	
						RPD = 0.61	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

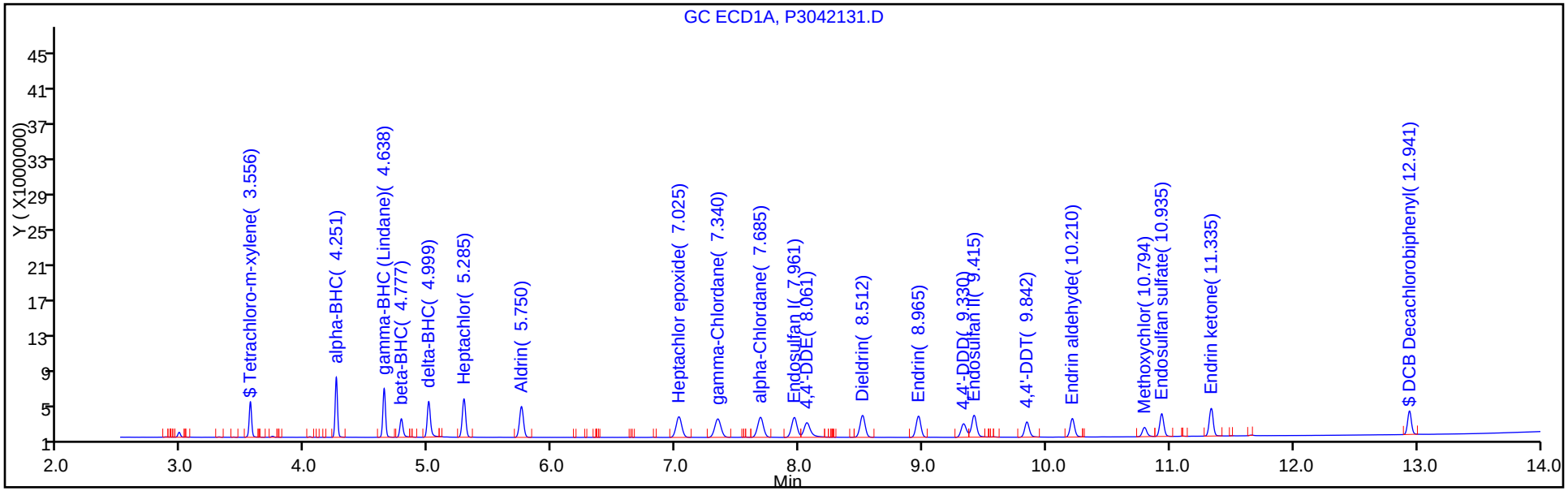
Report Date: 22-Apr-2015 08:58:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

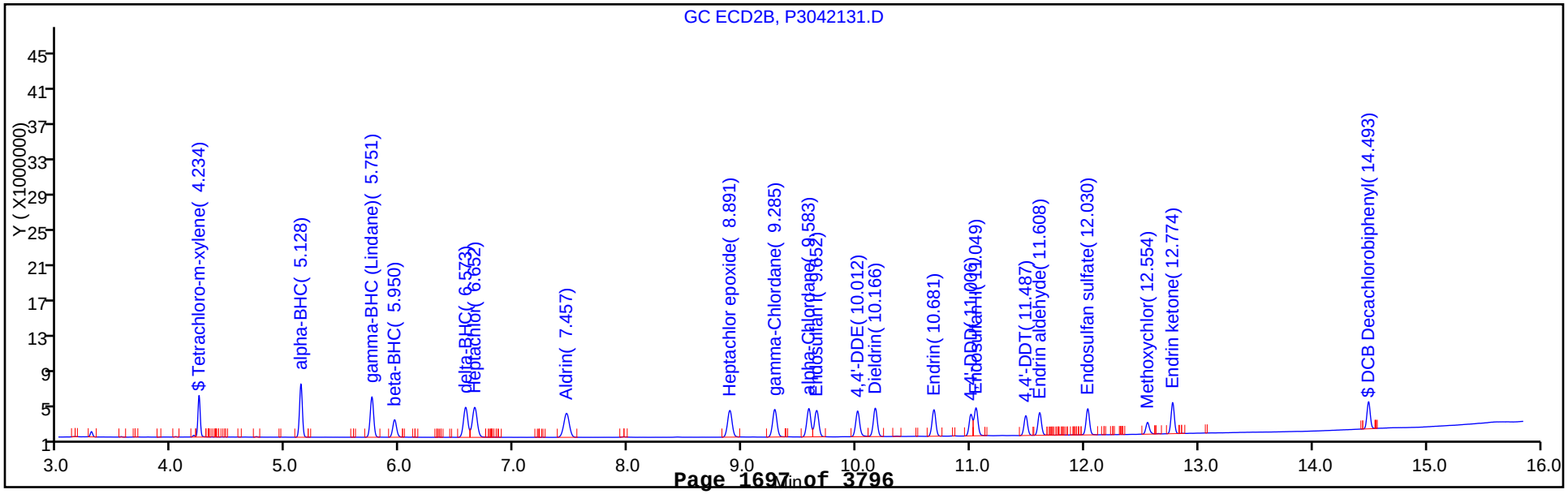
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D

Injection Date:	22-Apr-2015 00:22:12	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177258/31

Matrix: Solid | Lab File ID: P3042131.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 00:22

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	*Endrin*	*5.81*		*0.050*	4.2	*1.0*
58-89-9	*gamma-BHC (Lindane)*	*5.54*		*0.050*	4.2	*1.0*
76-44-8	*Heptachlor*	*6.12*		*0.050*	4.2	*0.42*
1024-57-3	*Heptachlor epoxide*	*6.00*		*0.050*	4.2	*1.2*
72-43-5	*Methoxychlor*	*6.05*		*0.10*	4.2	*1.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	123		50-150
877-09-8	Tetrachloro-m-xylene	120		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 00:22:12 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-031
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.554	0.002	5725930	5.00	5.82	
2	4.234	4.235	-0.001	6746827	5.00	5.99	
						RPD = 2.79	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.251	4.250	0.001	9222761	5.00	5.33	
2	5.128	5.129	-0.001	10589950	5.00	5.41	
						RPD = 1.57	
5 gamma-BHC (Lindane)							
1	4.638	4.639	-0.001	8464116	5.00	5.48	
2	5.751	5.752	-0.001	9801144	5.00	5.54	
						RPD = 1.02	
6 beta-BHC							
1	4.777	4.776	0.001	3845003	5.00	6.10	
2	5.950	5.951	-0.001	4698715	5.00	6.12	
						RPD = 0.17	
7 delta-BHC							
1	4.999	4.999	0.000	7611876	5.00	5.07	
2	6.573	6.574	-0.001	9263730	5.00	5.22	
						RPD = 3.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.284	0.001	8584429	5.00	5.88	
2	6.652	6.654	-0.002	10345377	5.00	6.12	
						RPD = 3.94	
10 Aldrin							
1	5.750	5.750	0.000	8029918	5.00	5.49	
2	7.457	7.460	-0.003	9349319	5.00	5.59	
						RPD = 1.77	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.023	0.002	7639658	5.00	5.86	
2	8.891	8.891	0.000	8607207	5.00	6.00	
						RPD = 2.31	
13 gamma-Chlordane							
1	7.340	7.339	0.001	7483907	5.00	5.54	
2	9.285	9.285	0.000	8488299	5.00	5.77	
						RPD = 4.05	
14 alpha-Chlordane							
1	7.685	7.684	0.001	7569272	5.00	5.66	
2	9.583	9.584	-0.001	8203936	5.00	5.78	
						RPD = 2.05	
15 Endosulfan I							
1	7.961	7.959	0.002	7195680	5.00	5.86	
2	9.652	9.653	-0.001	7929788	5.00	6.00	
						RPD = 2.33	
16 4,4'-DDE							
1	8.061	8.057	0.004	6458444	5.00	5.45	
2	10.012	10.012	0.000	7422072	5.00	5.62	
						RPD = 3.06	
17 Dieldrin							
1	8.512	8.510	0.002	7337526	5.00	5.61	
2	10.166	10.168	-0.002	7951043	5.00	5.81	
						RPD = 3.51	
18 Endrin							
1	8.965	8.963	0.002	6616084	5.00	5.75	
2	10.681	10.681	0.000	7005609	5.00	5.81	
						RPD = 1.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.326	0.004	4668940	5.00	5.36	
2	11.006	11.006	0.000	5155938	5.00	5.27	
						RPD = 1.80	
21 Endosulfan II							
1	9.415	9.413	0.002	7180990	5.00	6.21	
2	11.049	11.051	-0.002	7523870	5.00	6.43	
						RPD = 3.59	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.842	9.840	0.002	4659601	5.00	4.88	
2	11.487	11.488	-0.001	4979806	5.00	4.99	
						RPD = 2.26	
25 Endrin aldehyde							
1	10.210	10.209	0.001	5367576	5.00	6.03	
2	11.608	11.609	-0.001	5665725	5.00	6.07	
						RPD = 0.69	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.794	10.792	0.002	2734003	5.00	5.97	
2	12.554	12.555	-0.001	2957679	5.00	6.05	
						RPD = 1.32	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	6034111	5.00	6.06	
2	12.030	12.032	-0.002	6478500	5.00	6.12	
						RPD = 0.98	
29 Endrin ketone							
1	11.335	11.334	0.001	7185279	5.00	5.88	
2	12.774	12.776	-0.002	7144288	5.00	5.82	
						RPD = 1.05	

Report Date: 22-Apr-2015 08:58:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.940	0.001	5775402	5.00	6.17	
2	14.493	14.493	0.000	6239737	5.00	6.13	
						RPD = 0.61	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

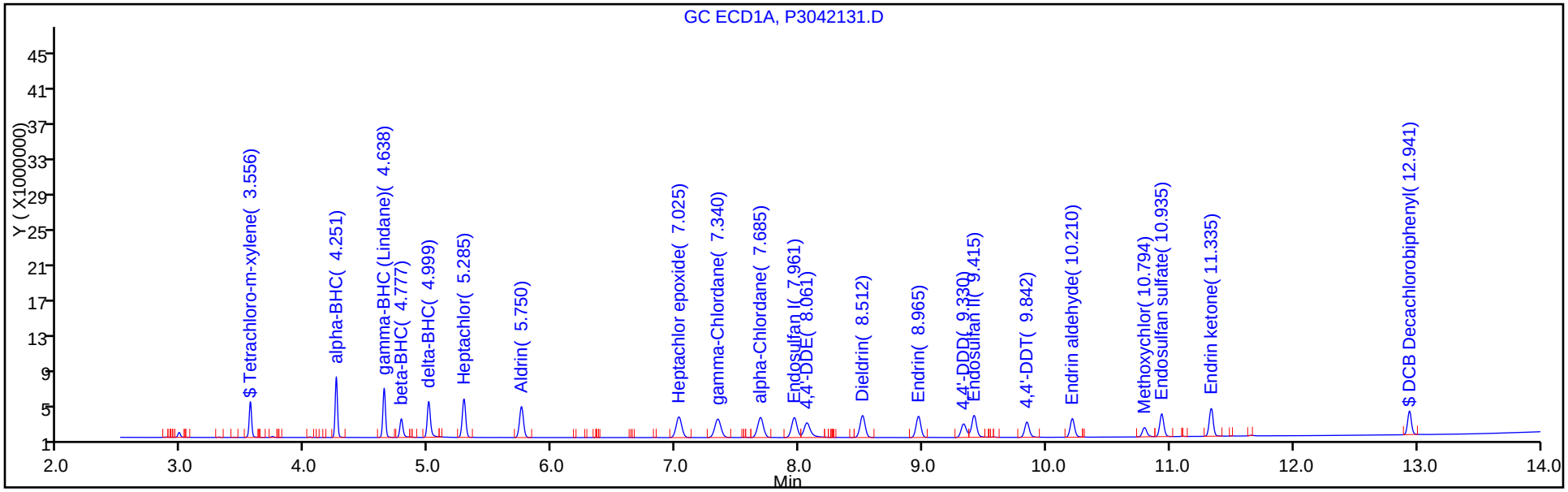
Report Date: 22-Apr-2015 08:58:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

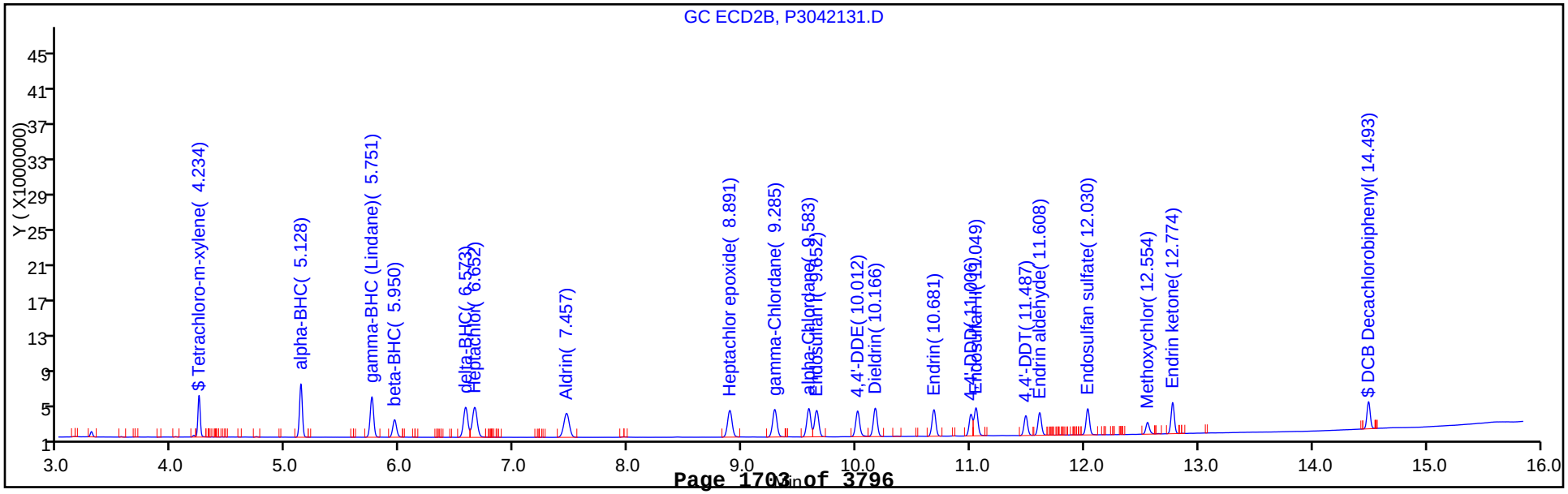
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D

Injection Date:	22-Apr-2015 00:22:12	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/47

Matrix: Solid Lab File ID: P3042147.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 06:25

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	148		2.0	83	16

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 06:25:59 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-047
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:37:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554					ND	
2	4.235						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.879						
2 Diallate							
1	4.125					ND	
1	4.292						
2	4.831						
2	4.993						
4 alpha-BHC							
1	4.250					ND	
2	5.128						
5 gamma-BHC (Lindane)							
1	4.637					ND	
2	5.751						
6 beta-BHC							
1	4.775					ND	
2	5.950						
7 delta-BHC							
1	4.998					ND	
2	6.573						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					
21 Endosulfan II							
1		9.411				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.618	9.622	-0.004	6668723	200.0	176.3	M
1	10.083	10.081	0.002	6158420	200.0	168.1	M
1	10.393	10.393	0.000	3305126	200.0	141.5	M
1	10.736	10.735	0.001	5308916	200.0	160.0	M
1	10.841	10.840	0.001	3051798	200.0	94.4	M
		Average of Peak Amounts =				148.1	
2	11.025	11.025	0.000	8123575	200.0	156.8	M
2	11.195	11.195	0.000	8454792	200.0	165.9	M
2	11.619	11.618	0.001	5432969	200.0	152.4	M
2	12.355	12.353	0.002	5372334	200.0	117.7	M
2	12.441	12.444	-0.003	1914467	200.0	123.0	M
		Average of Peak Amounts =				143.2	
						RPD = 3.36	
23 4,4'-DDT							
1		9.838				ND	
2		11.487					
25 Endrin aldehyde							
1		10.206				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.789				ND	
2		12.553					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.030					
29 Endrin ketone							
1		11.333				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.938				ND	
2		14.493					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

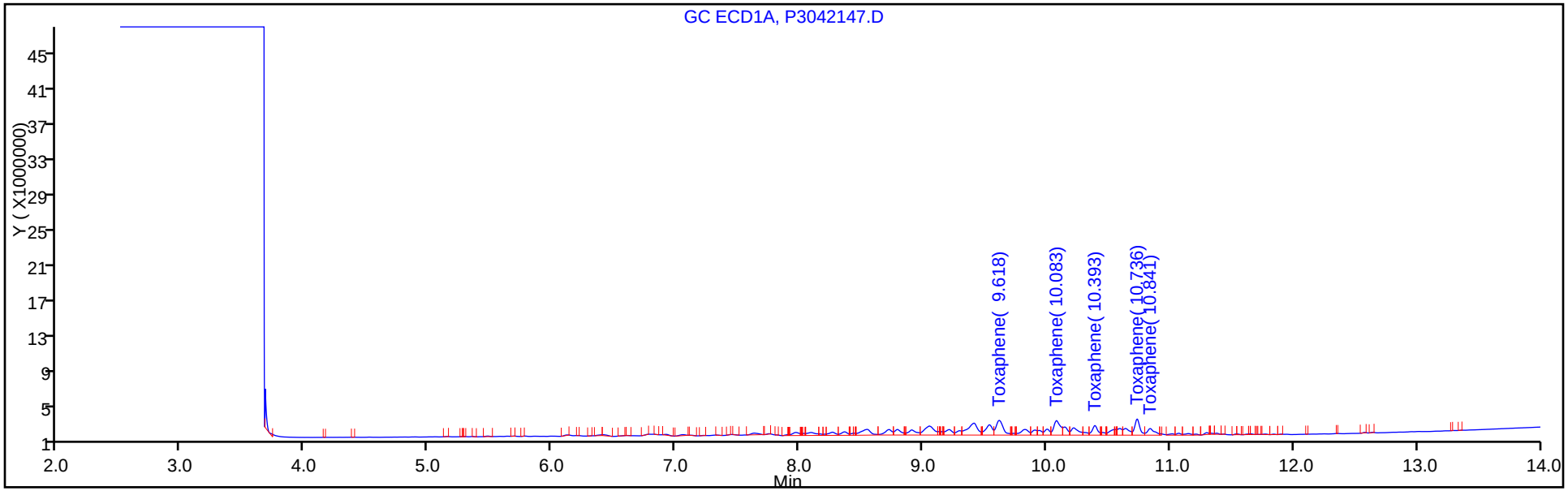
Report Date: 22-Apr-2015 08:58:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

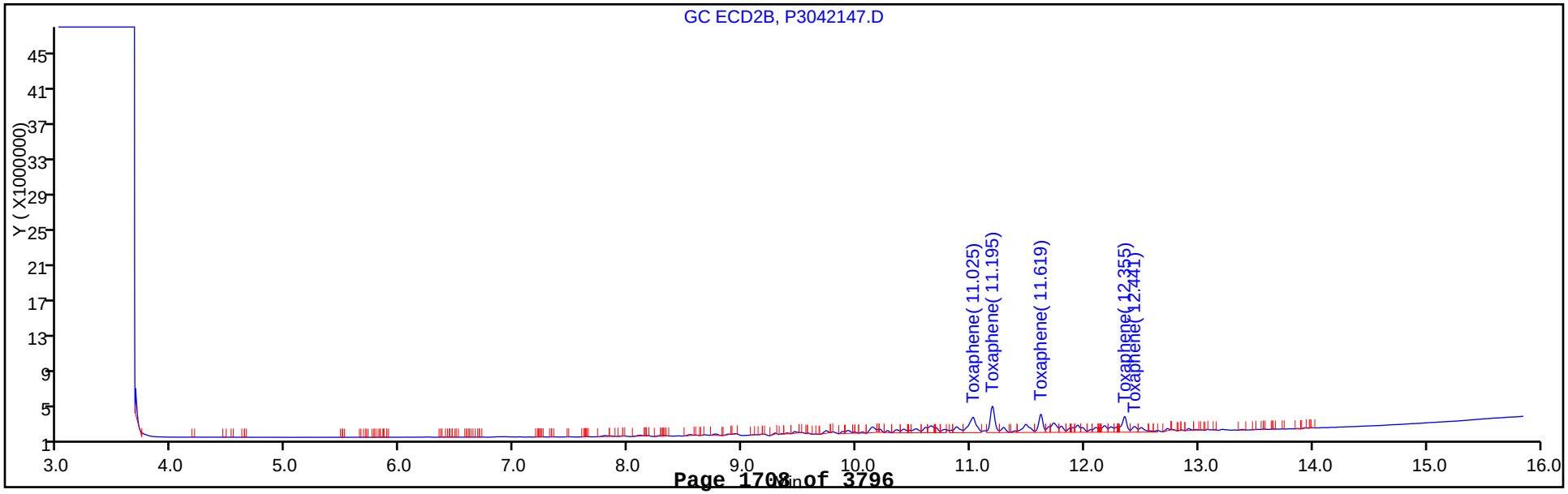
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date:	22-Apr-2015 06:25:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	47
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

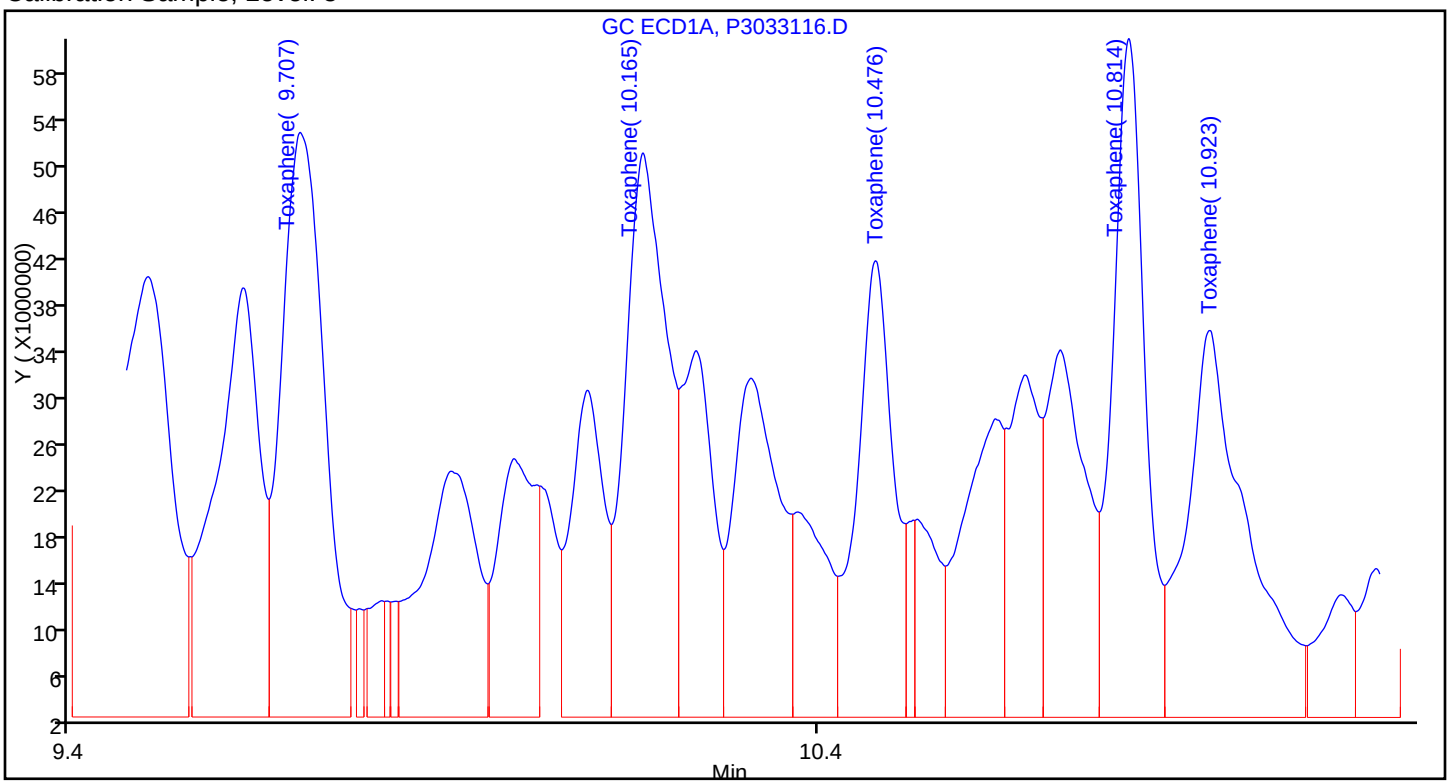
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

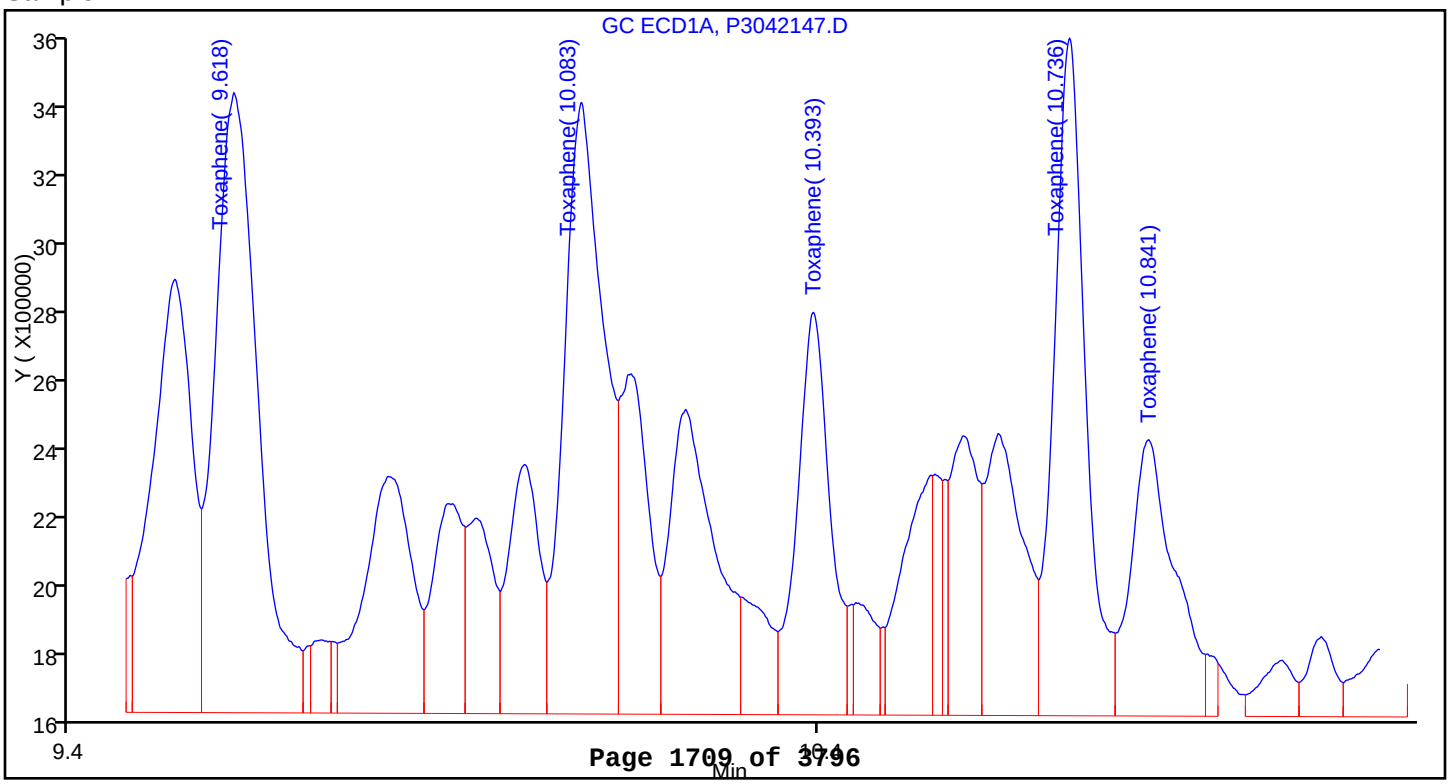
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

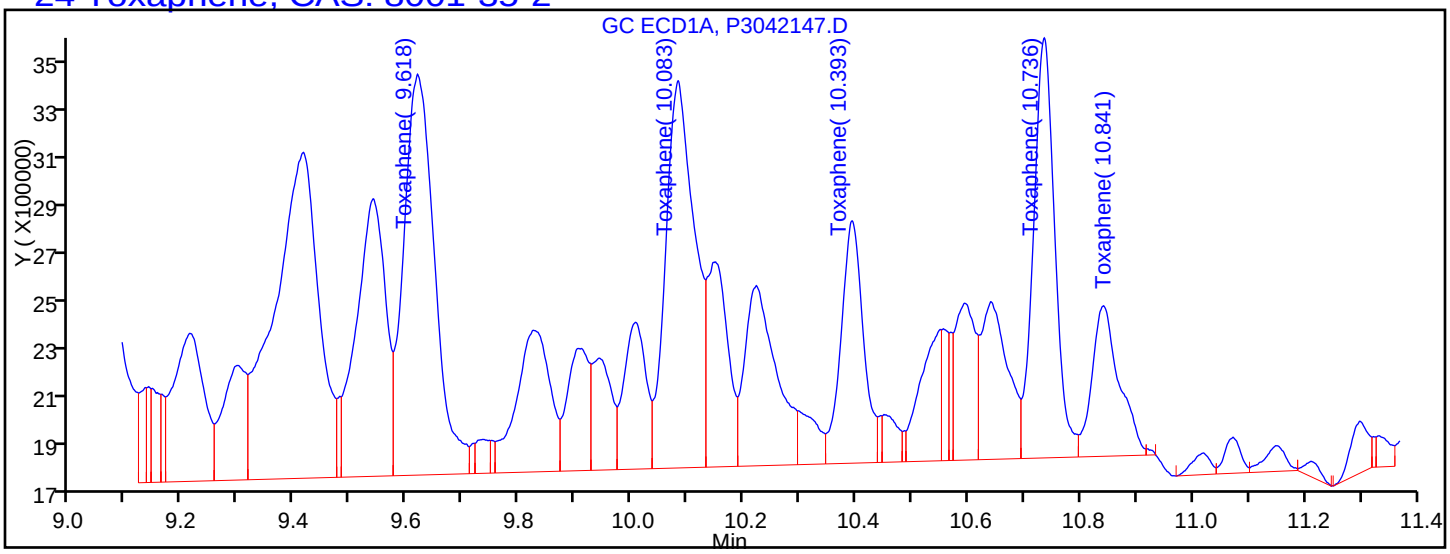
Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

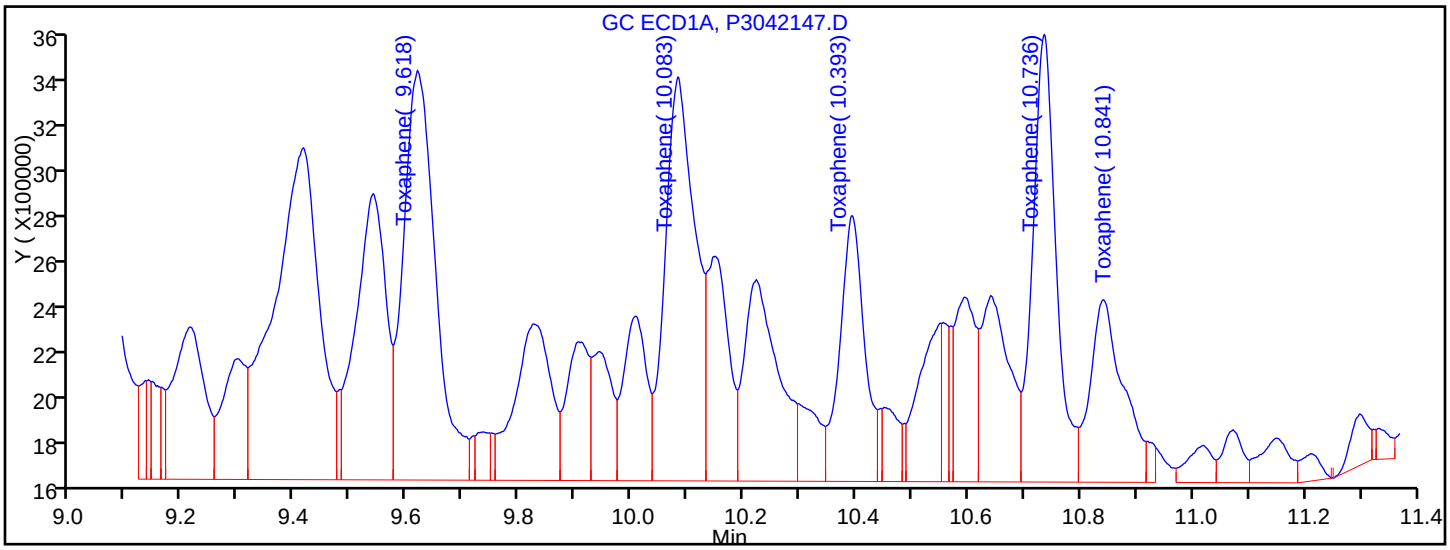
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.618	Response = 6233656	M
RT = 10.083	Response = 5675294	M
RT = 10.393	Response = 2720411	M
RT = 10.736	Response = 4510246	M
RT = 10.841	Response = 2054115	M



Manual Integration Results

RT = 9.618	Response = 6668723	M
RT = 10.083	Response = 6158420	M
RT = 10.393	Response = 3305126	M
RT = 10.736	Response = 5308916	M
RT = 10.841	Response = 3051798	M

Reviewer: matthewsb, 22-Apr-2015 07:37:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/47

Matrix: Solid Lab File ID: P3042147.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 06:25

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	6.7	U	0.50	6.7	2.8
72-20-8	Endrin	4.2	U	0.050	4.2	1.0
58-89-9	gamma-BHC (Lindane)	4.2	U	0.050	4.2	1.0
76-44-8	Heptachlor	4.2	U	0.050	4.2	0.42
1024-57-3	Heptachlor epoxide	4.2	U	0.050	4.2	1.2
72-43-5	Methoxychlor	4.2	U	0.10	4.2	1.0
8001-35-2	*Toxaphene*	*143*		*2.0*	83	*16*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 06:25:59 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-047
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:37:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554					ND	
2	4.235						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.879						
2 Diallate							
1	4.125					ND	
1	4.292						
2	4.831						
2	4.993						
4 alpha-BHC							
1	4.250					ND	
2	5.128						
5 gamma-BHC (Lindane)							
1	4.637					ND	
2	5.751						
6 beta-BHC							
1	4.775					ND	
2	5.950						
7 delta-BHC							
1	4.998					ND	
2	6.573						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					
21 Endosulfan II							
1		9.411				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.618	9.622	-0.004	6668723	200.0	176.3	M
1	10.083	10.081	0.002	6158420	200.0	168.1	M
1	10.393	10.393	0.000	3305126	200.0	141.5	M
1	10.736	10.735	0.001	5308916	200.0	160.0	M
1	10.841	10.840	0.001	3051798	200.0	94.4	M
		Average of Peak Amounts =				148.1	
2	11.025	11.025	0.000	8123575	200.0	156.8	M
2	11.195	11.195	0.000	8454792	200.0	165.9	M
2	11.619	11.618	0.001	5432969	200.0	152.4	M
2	12.355	12.353	0.002	5372334	200.0	117.7	M
2	12.441	12.444	-0.003	1914467	200.0	123.0	M
		Average of Peak Amounts =				143.2	
						RPD = 3.36	
23 4,4'-DDT							
1		9.838				ND	
2		11.487					
25 Endrin aldehyde							
1		10.206				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.789				ND	
2		12.553					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.030					
29 Endrin ketone							
1		11.333				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.938				ND	
2		14.493					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

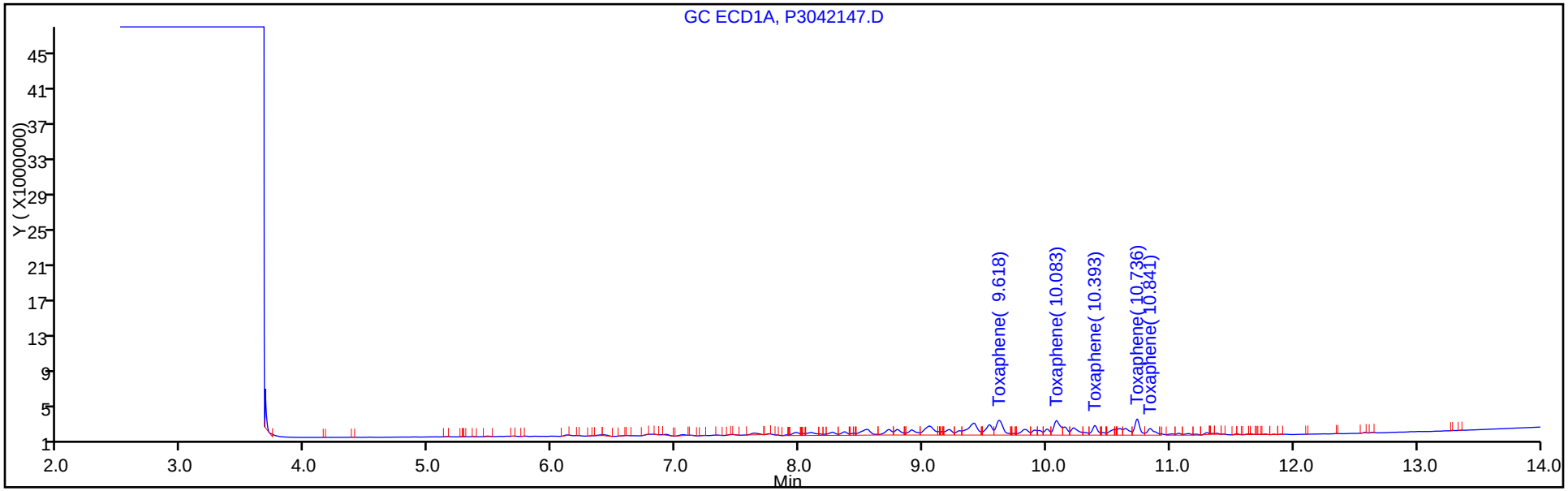
Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

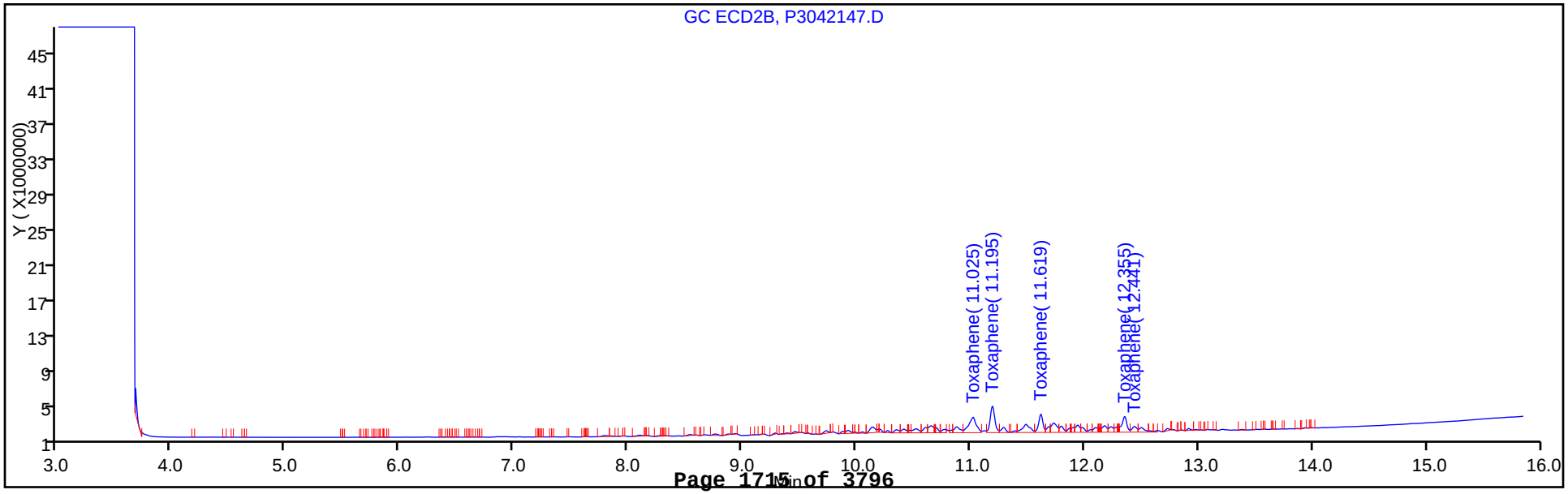
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date:	22-Apr-2015 06:25:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	47
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

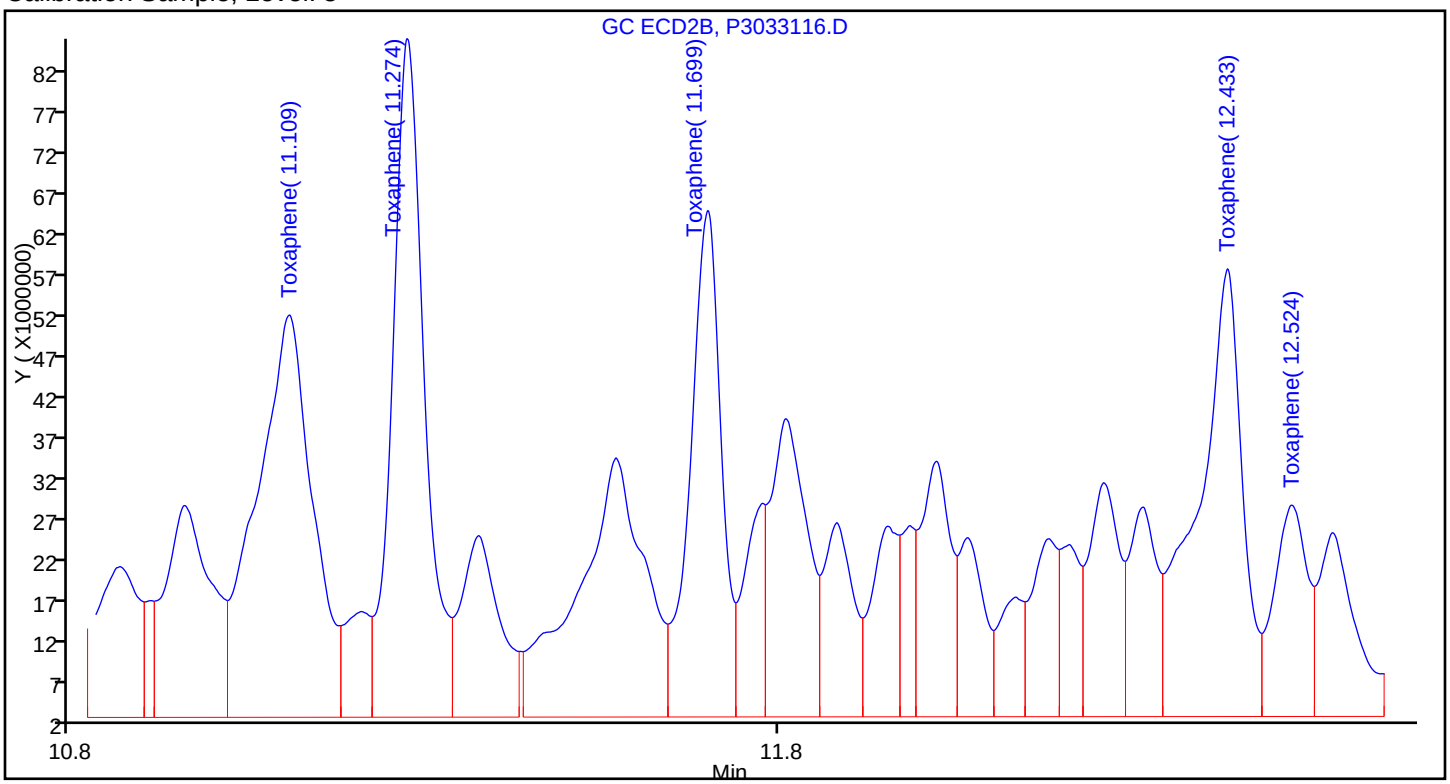
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

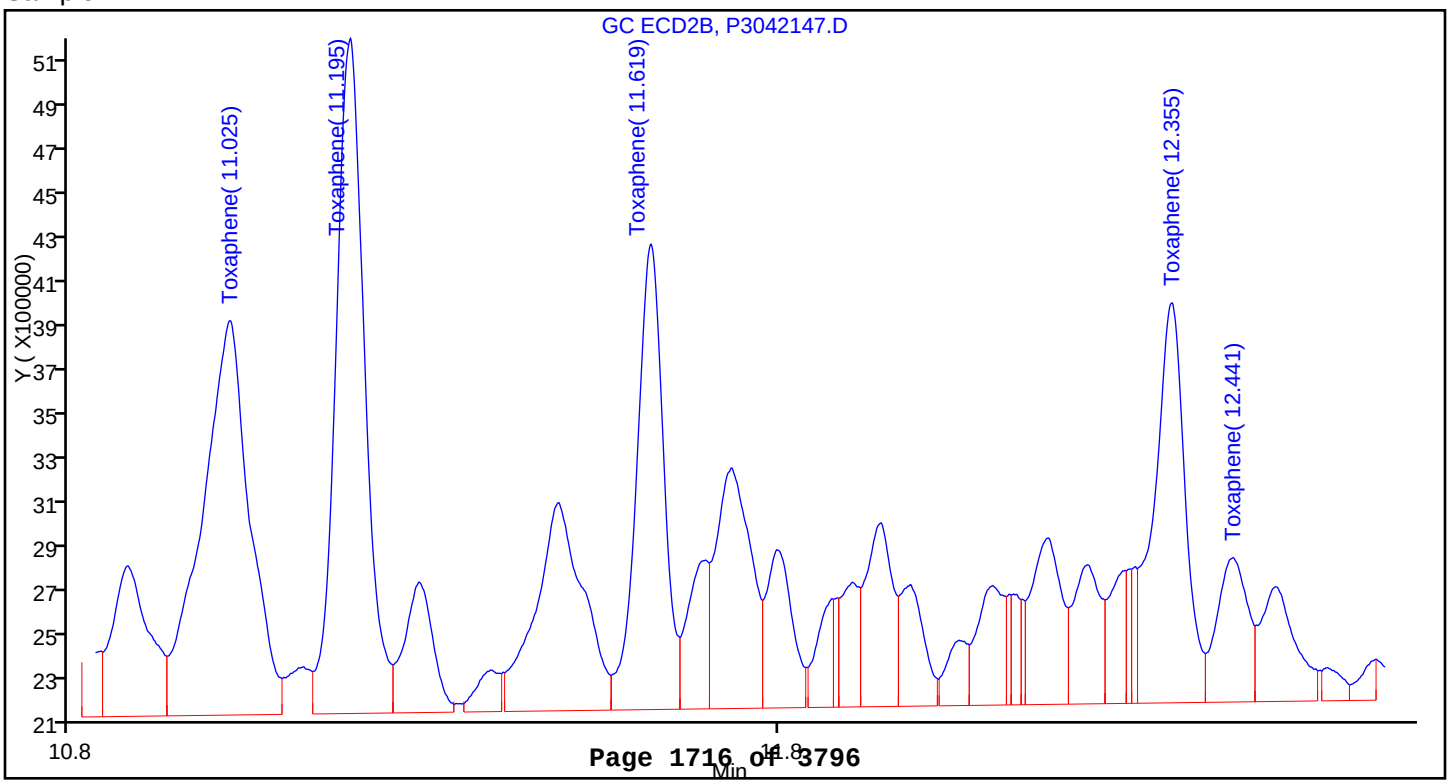
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

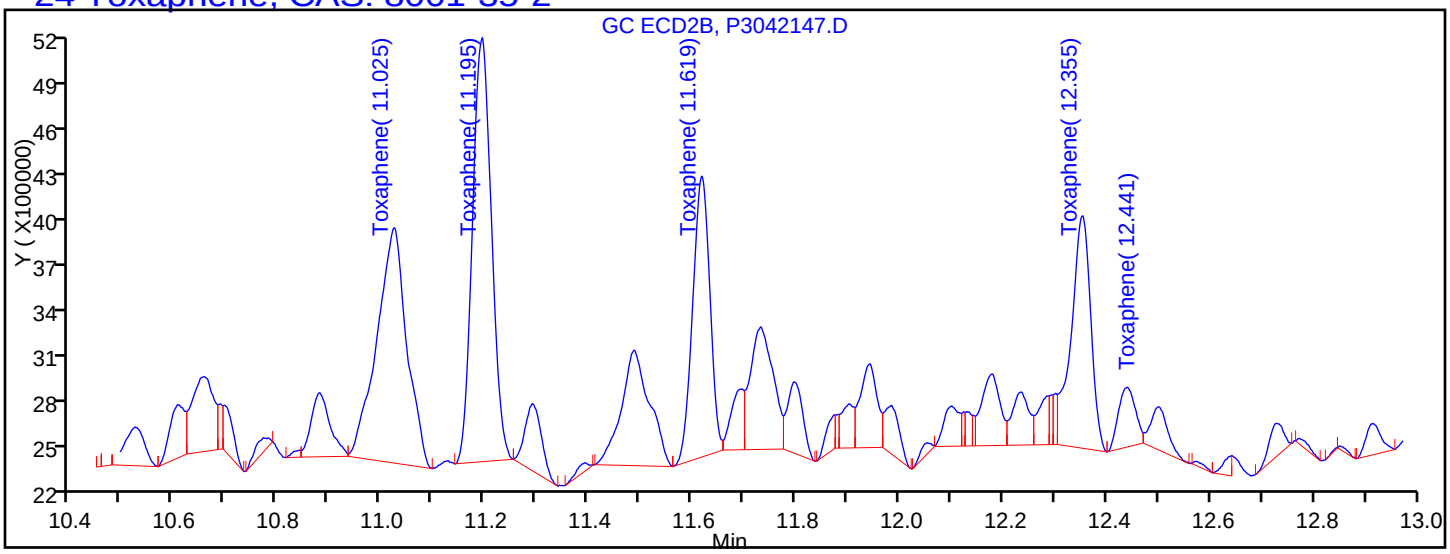
Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

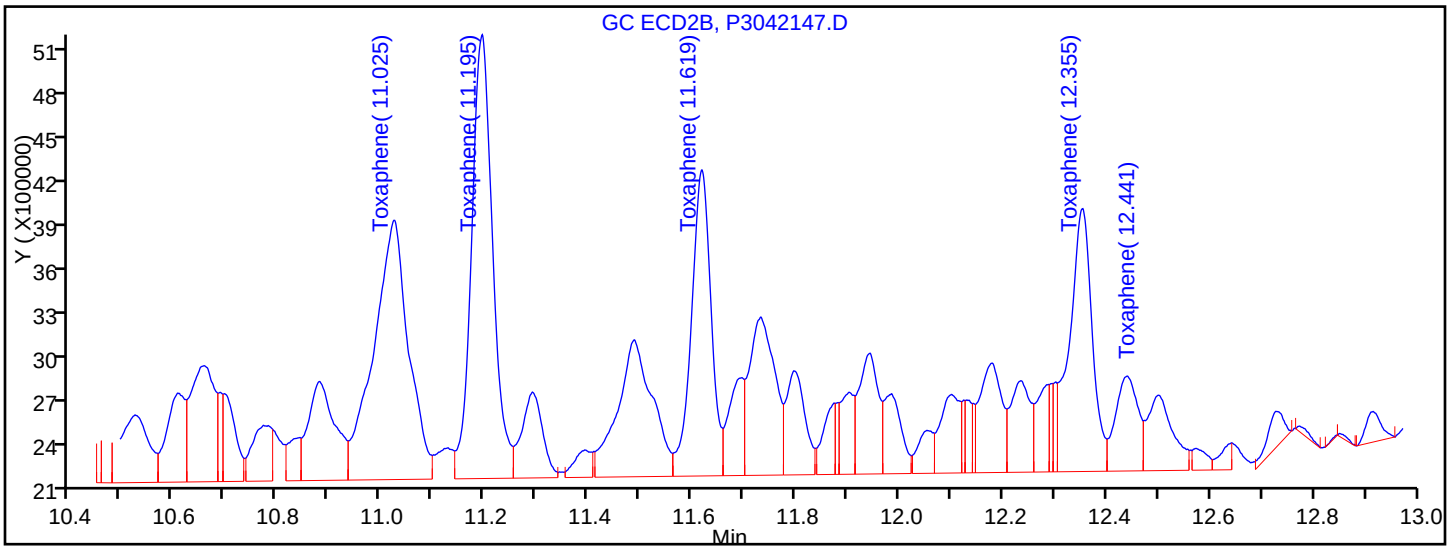
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.025	Response = 6166955	M
RT = 11.195	Response = 7098168	M
RT = 11.619	Response = 4250424	M
RT = 12.355	Response = 3993179	M
RT = 12.441	Response = 901540	M



Manual Integration Results

RT = 11.025	Response = 8123575	M
RT = 11.195	Response = 8454792	M
RT = 11.619	Response = 5432969	M
RT = 12.355	Response = 5372334	M
RT = 12.441	Response = 1914467	M

Reviewer: matthewsb, 22-Apr-2015 07:37:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/48

Matrix: Solid Lab File ID: P3042148.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 06:49

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	21.8		0.50	6.7	2.8

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042148.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 06:49:07 ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-048
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:38:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.128					
5 gamma-BHC (Lindane)							
1		4.637				ND	
2		5.751					
6 beta-BHC							
1		4.775				ND	
2		5.950					
7 delta-BHC							
1		4.998				ND	
2		6.573					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							M
1	5.168	5.166	0.002	967039	20.0	22.6	
1	6.056	6.055	0.001	1179878	20.0	23.9	
1	7.339	7.339	0.000	3364178	20.0	20.2	M
1	7.681	7.677	0.004	5346480	20.0	20.6	
		Average of Peak Amounts =				21.8	
2	6.325	6.325	0.000	1169947	20.0	23.9	
2	7.953	7.950	0.003	1422412	20.0	24.6	
2	9.283	9.283	0.000	3762622	20.0	21.3	
2	9.583	9.581	0.002	3335738	20.0	21.1	
		Average of Peak Amounts =				22.7	
						RPD = 3.99	
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							M
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1	9.411					ND	
2	11.050						
22 Chlorobenzilate							
1	9.422					ND	
2	10.829						
24 Toxaphene							
1	9.622					ND	
1	10.081						
1	10.393						
1	10.735						
1	10.840						
2	11.025						
2	11.195						
2	11.618						
2	12.353						
2	12.444						
23 4,4'-DDT							
1	9.838					ND	
2	11.487						
25 Endrin aldehyde							
1	10.206					ND	
2	11.609						
26 Mirex							
1	10.663					ND	
2	12.669						
27 Methoxychlor							
1	10.789					ND	
2	12.553						
28 Endosulfan sulfate							
1	10.933					ND	
2	12.030						
29 Endrin ketone							
1	11.333					ND	
2	12.773						
$ 30 DCB Decachlorobiphenyl							
1	12.938					ND	
2	14.493						

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

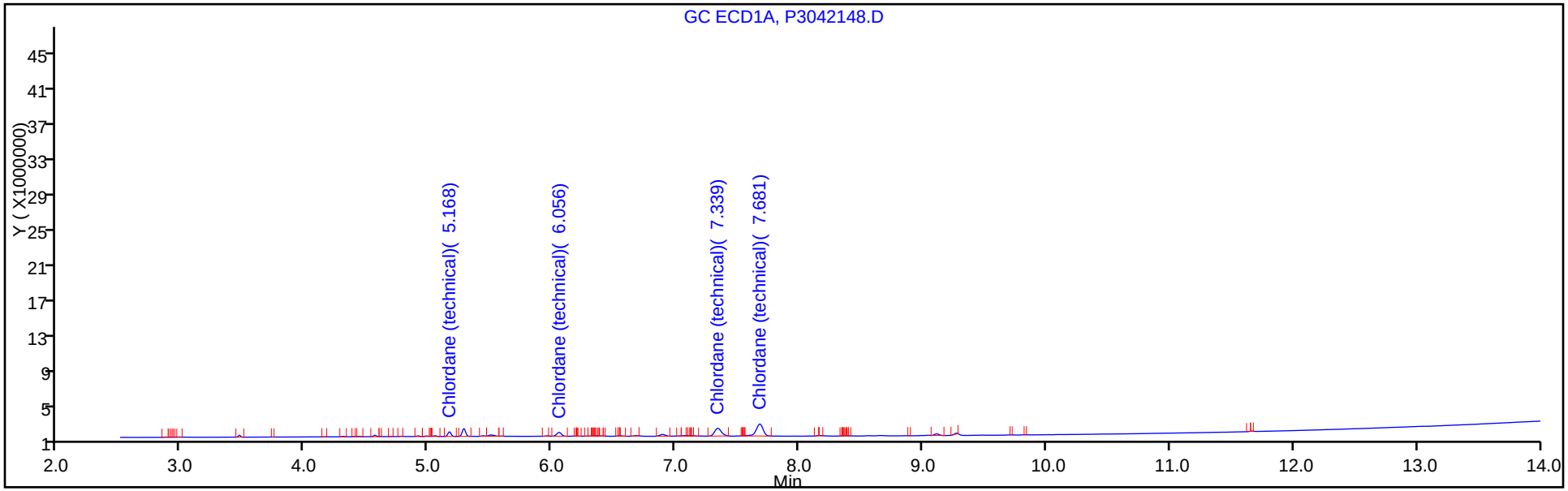
Report Date: 22-Apr-2015 08:58:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

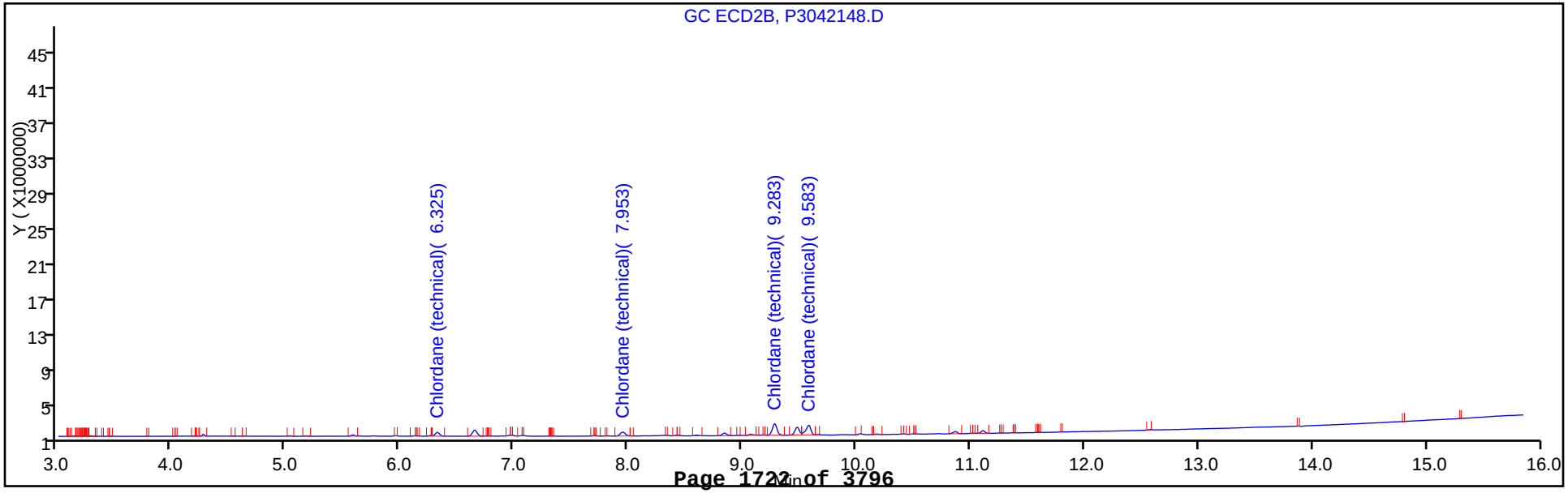
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042148.D

Injection Date:	22-Apr-2015 06:49:07	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	48
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

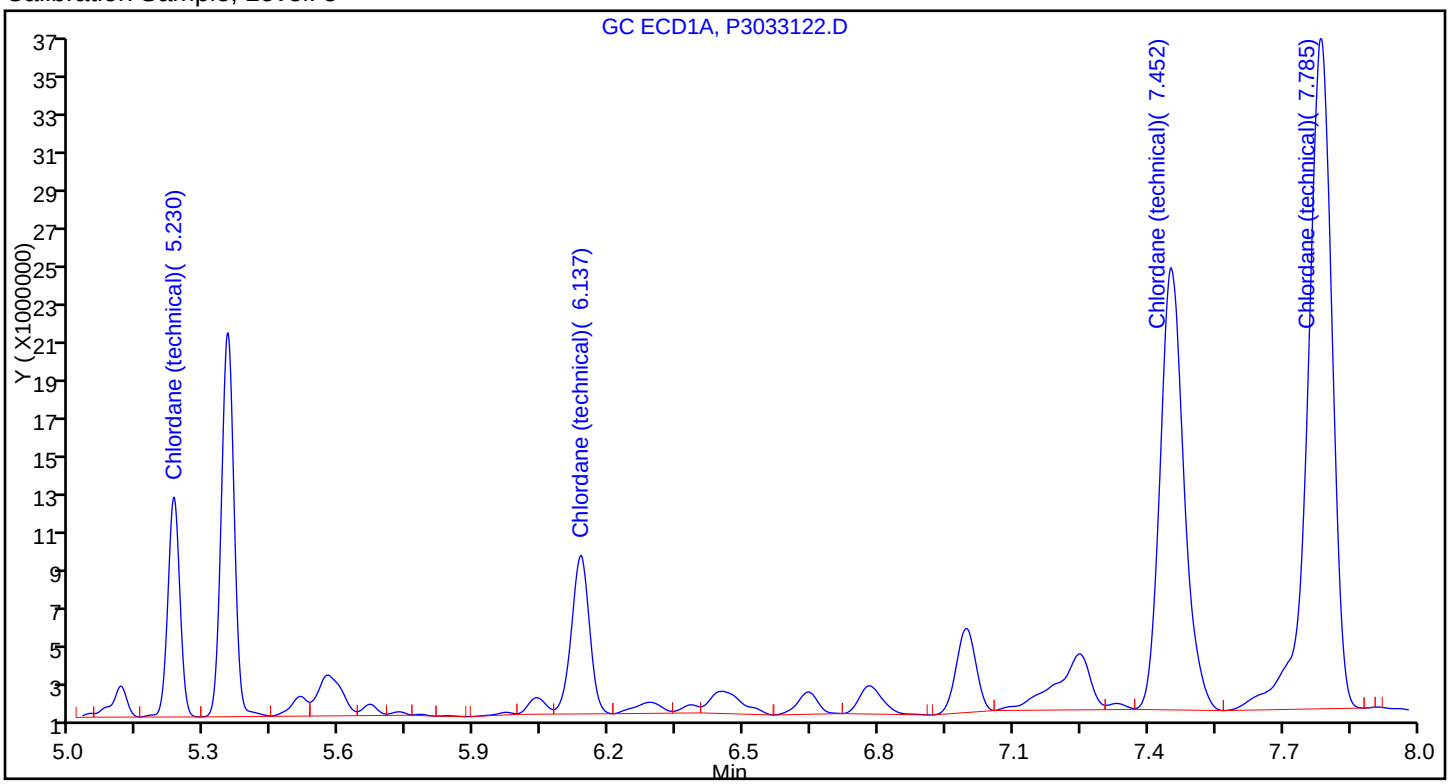
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042148.D

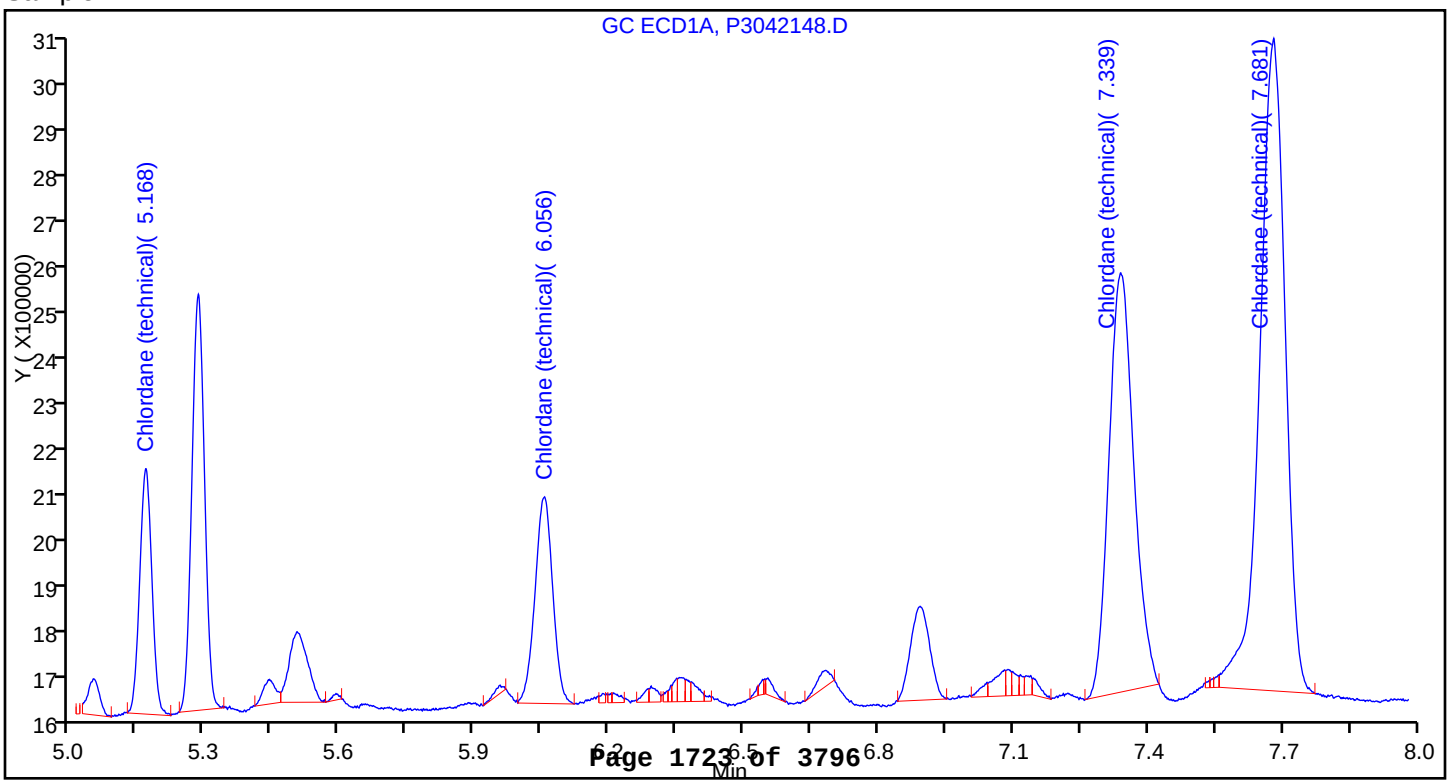
Injection Date:	22-Apr-2015 06:49:07	Instrument ID:	A2HP3		
Lims ID:	MRL TC				
Client ID:					
Operator ID:	430893	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ECD1A		

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042148.D

Injection Date: 22-Apr-2015 06:49:07 Instrument ID: A2HP3

Lims ID: MRL TC

Client ID:

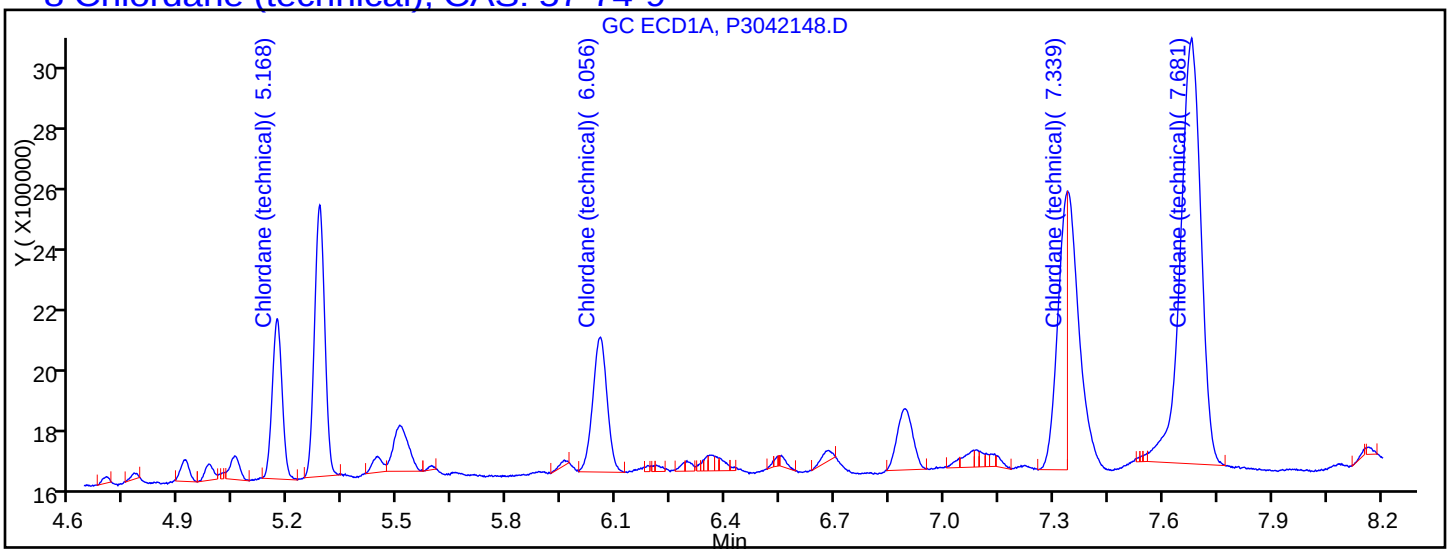
Operator ID: 430893 ALS Bottle#: 48 Worklist Smp#: 48

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

Column: Detector GC ECD1A

8 Chlordane (technical), CAS: 57-74-9



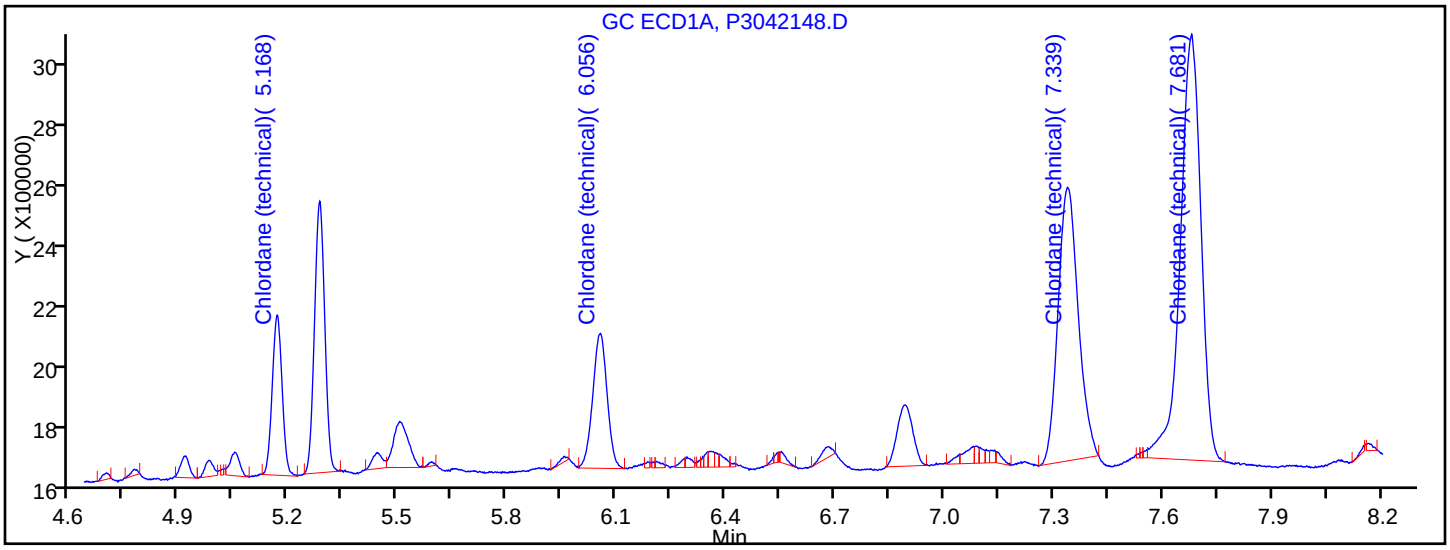
Processing Integration Results

RT = 5.168 Response = 967039

RT = 6.056 Response = 1179878

RT = 7.339 Response = 1583364 M

RT = 7.681 Response = 5346480



Manual Integration Results

RT = 5.168 Response = 967039

RT = 6.056 Response = 1179878

RT = 7.339 Response = 3364178 M

RT = 7.681 Response = 5346480

Reviewer: matthewsb, 22-Apr-2015 07:38:30

Audit Action: Manually Integrated

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177258/48

Matrix: Solid Lab File ID: P3042148.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 06:49

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	*Chlordane (technical)*	*22.7*		*0.50*	6.7	*2.8*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042148.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 06:49:07 ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-048
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:38:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.128					
5 gamma-BHC (Lindane)							
1		4.637				ND	
2		5.751					
6 beta-BHC							
1		4.775				ND	
2		5.950					
7 delta-BHC							
1		4.998				ND	
2		6.573					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							M
1	5.168	5.166	0.002	967039	20.0	22.6	
1	6.056	6.055	0.001	1179878	20.0	23.9	
1	7.339	7.339	0.000	3364178	20.0	20.2	M
1	7.681	7.677	0.004	5346480	20.0	20.6	
		Average of Peak Amounts =				21.8	
2	6.325	6.325	0.000	1169947	20.0	23.9	
2	7.953	7.950	0.003	1422412	20.0	24.6	
2	9.283	9.283	0.000	3762622	20.0	21.3	
2	9.583	9.581	0.002	3335738	20.0	21.1	
		Average of Peak Amounts =				22.7	
						RPD = 3.99	
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							M
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1	9.411					ND	
2	11.050						
22 Chlorobenzilate							
1	9.422					ND	
2	10.829						
24 Toxaphene							
1	9.622					ND	
1	10.081						
1	10.393						
1	10.735						
1	10.840						
2	11.025						
2	11.195						
2	11.618						
2	12.353						
2	12.444						
23 4,4'-DDT							
1	9.838					ND	
2	11.487						
25 Endrin aldehyde							
1	10.206					ND	
2	11.609						
26 Mirex							
1	10.663					ND	
2	12.669						
27 Methoxychlor							
1	10.789					ND	
2	12.553						
28 Endosulfan sulfate							
1	10.933					ND	
2	12.030						
29 Endrin ketone							
1	11.333					ND	
2	12.773						
$ 30 DCB Decachlorobiphenyl							
1	12.938					ND	
2	14.493						

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

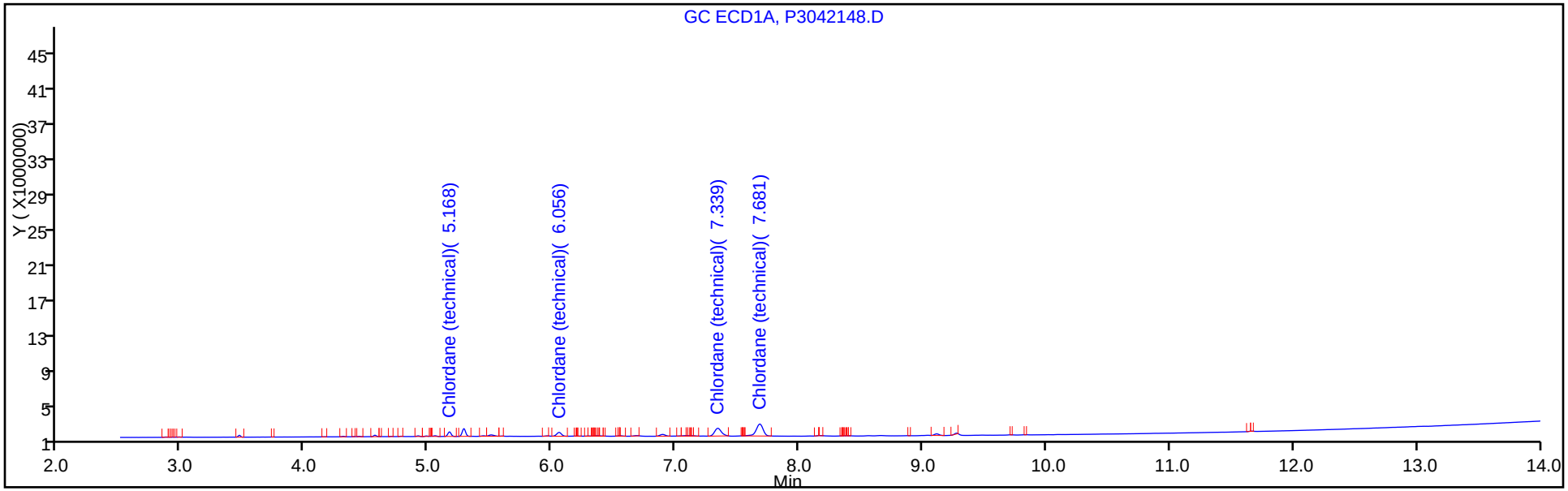
Report Date: 22-Apr-2015 08:58:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

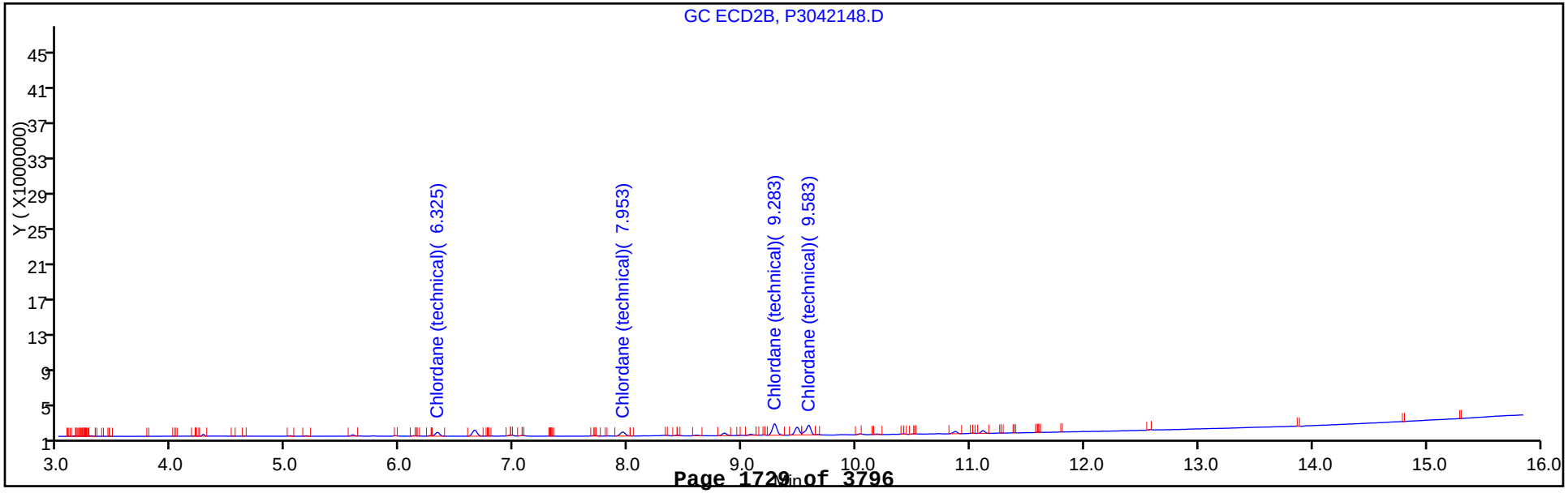
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042148.D

Injection Date:	22-Apr-2015 06:49:07	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	48
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

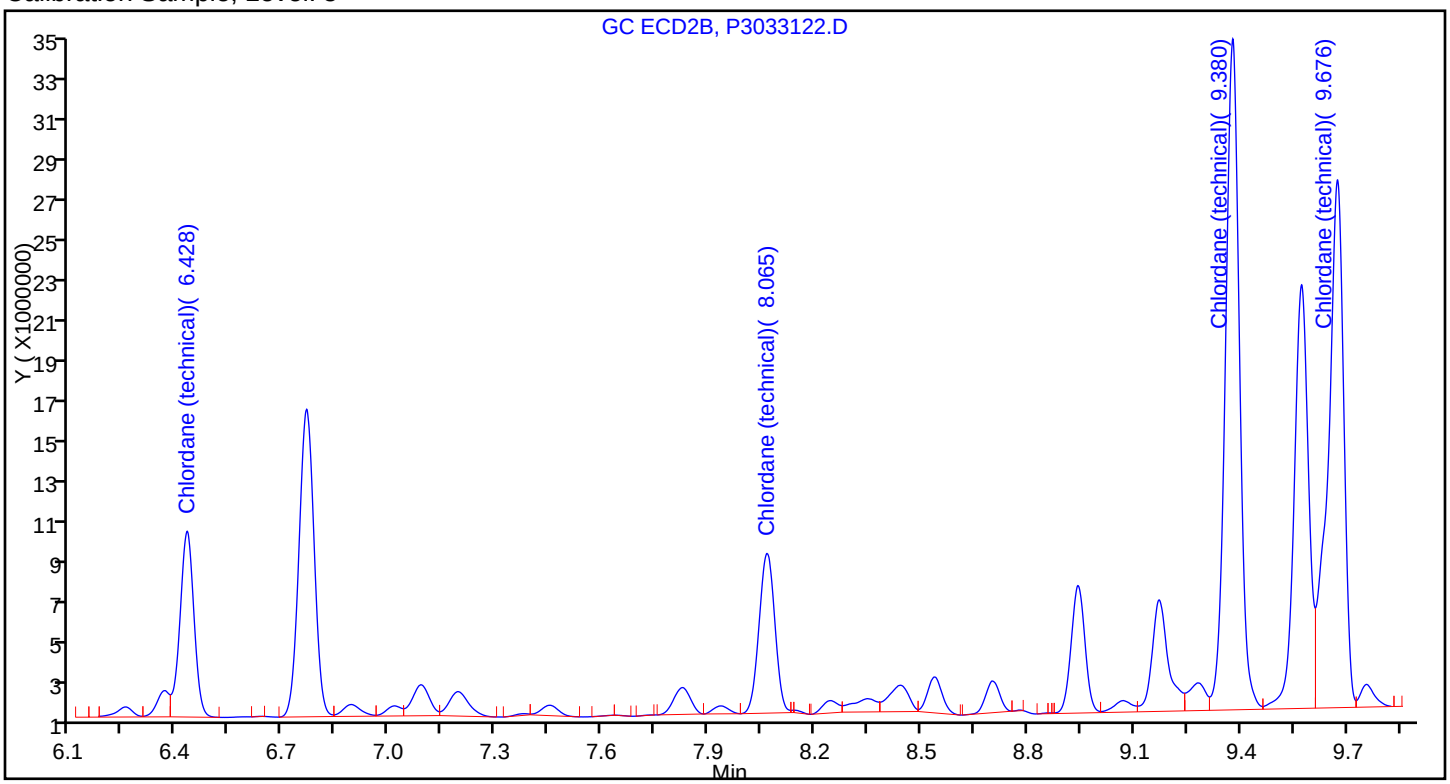
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042148.D

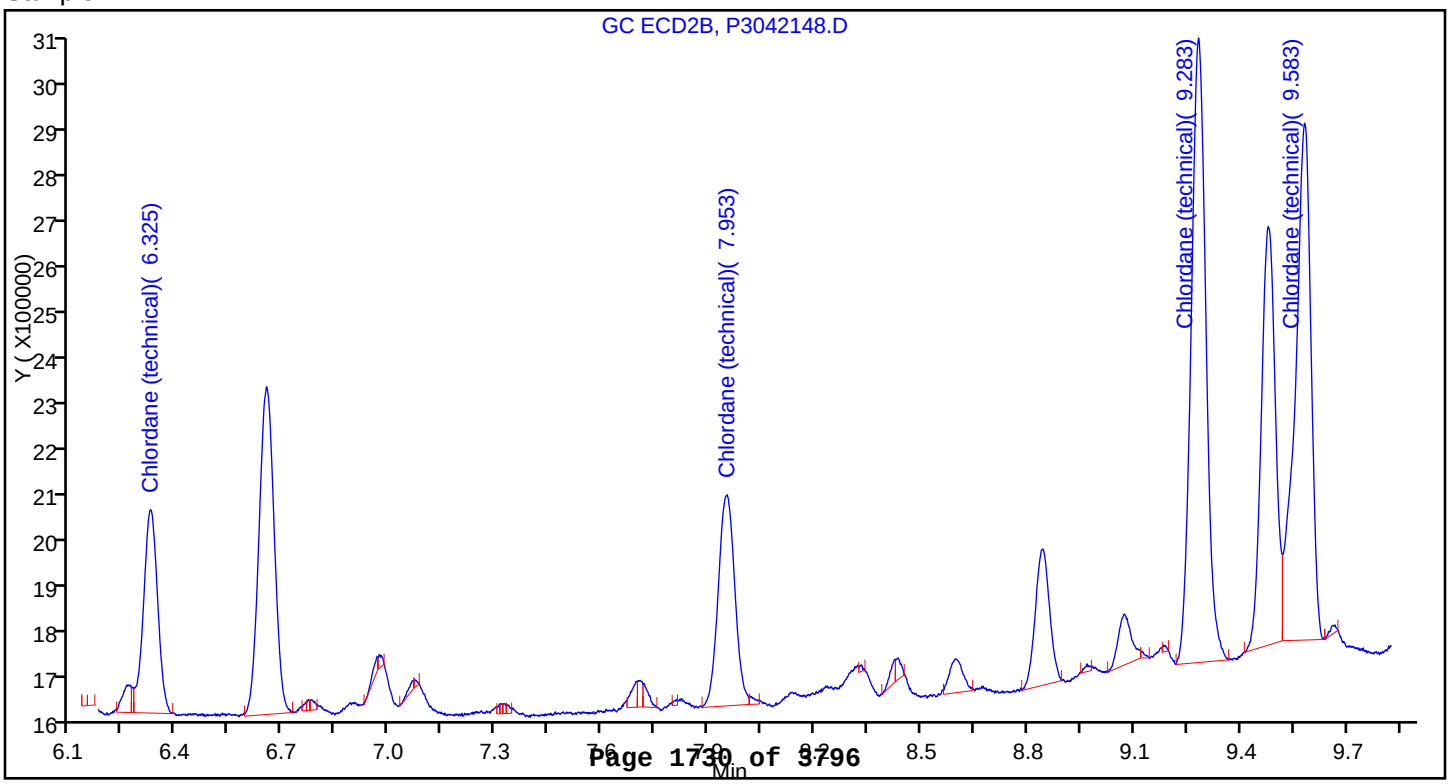
Injection Date:	22-Apr-2015 06:49:07	Instrument ID:	A2HP3		
Lims ID:	MRL TC				
Client ID:					
Operator ID:	430893	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ecd2b		

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177258/49

Matrix: Solid | Lab File ID: P3042149.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 07:12

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	Endrin	5.61		0.050	4.2	1.0
58-89-9	gamma-BHC (Lindane)	5.36		0.050	4.2	1.0
76-44-8	Heptachlor	5.73		0.050	4.2	0.42
1024-57-3	Heptachlor epoxide	5.76		0.050	4.2	1.2
72-43-5	Methoxychlor	4.23		0.10	4.2	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	116		50-150
877-09-8	Tetrachloro-m-xylene	117		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 07:12:11 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-049
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.554	0.001	5759700	5.00	5.86	
2	4.235	4.235	0.000	6674773	5.00	5.92	
						RPD = 1.13	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.250	4.250	0.000	9297189	5.00	5.37	
2	5.129	5.128	0.001	10527383	5.00	5.38	
						RPD = 0.18	
5 gamma-BHC (Lindane)							
1	4.638	4.637	0.001	8280119	5.00	5.36	
2	5.751	5.751	0.000	9653649	5.00	5.46	
						RPD = 1.70	
6 beta-BHC							
1	4.777	4.775	0.002	3650972	5.00	5.80	
2	5.952	5.950	0.002	4637872	5.00	6.04	
						RPD = 4.05	
7 delta-BHC							
1	5.000	4.998	0.002	7242641	5.00	4.82	
2	6.575	6.573	0.002	8681316	5.00	4.89	
						RPD = 1.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.283	0.002	8365986	5.00	5.73	
2	6.653	6.653	0.000	10069563	5.00	5.96	
						RPD = 3.82	
10 Aldrin							
1	5.750	5.748	0.002	7942814	5.00	5.43	
2	7.458	7.458	0.000	9285452	5.00	5.55	
						RPD = 2.18	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.021	0.004	7509932	5.00	5.76	
2	8.889	8.889	0.000	8417740	5.00	5.86	
						RPD = 1.80	
13 gamma-Chlordane							
1	7.340	7.337	0.003	7356533	5.00	5.45	
2	9.284	9.285	-0.001	8306900	5.00	5.65	
						RPD = 3.60	
14 alpha-Chlordane							
1	7.685	7.682	0.003	7453295	5.00	5.57	
2	9.584	9.583	0.001	8008390	5.00	5.64	
						RPD = 1.18	
15 Endosulfan I							
1	7.958	7.957	0.001	7090410	5.00	5.78	
2	9.653	9.651	0.002	7760039	5.00	5.87	
						RPD = 1.64	
16 4,4'-DDE							
1	8.061	8.056	0.005	6336434	5.00	5.35	
2	10.012	10.009	0.003	7190910	5.00	5.45	
						RPD = 1.80	
17 Dieldrin							
1	8.511	8.508	0.003	7266323	5.00	5.56	
2	10.167	10.167	0.000	7763329	5.00	5.67	
						RPD = 2.09	
18 Endrin							
1	8.964	8.962	0.002	6461451	5.00	5.61	
2	10.680	10.680	0.000	6537728	5.00	5.42	
						RPD = 3.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.322	0.008	4660374	5.00	5.35	
2	11.006	11.004	0.002	5123179	5.00	5.23	
						RPD = 2.25	
21 Endosulfan II							
1	9.414	9.411	0.003	7125507	5.00	6.16	
2	11.050	11.050	0.000	7587472	5.00	6.49	
						RPD = 5.20	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.841	9.838	0.003	3331675	5.00	3.49	
2	11.486	11.487	-0.001	3447548	5.00	3.45	
						RPD = 0.96	
25 Endrin aldehyde							
1	10.210	10.206	0.004	4710760	5.00	5.29	
2	11.609	11.609	0.000	4861346	5.00	5.21	
						RPD = 1.57	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.793	10.789	0.004	1940360	5.00	4.23	
2	12.554	12.553	0.001	1928694	5.00	3.94	
						RPD = 7.14	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	5653115	5.00	5.67	
2	12.030	12.030	0.000	5971930	5.00	5.64	
						RPD = 0.64	
29 Endrin ketone							
1	11.334	11.333	0.001	6578132	5.00	5.38	
2	12.774	12.773	0.001	6574509	5.00	5.35	
						RPD = 0.54	

Report Date: 22-Apr-2015 08:58:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.938	0.002	5434719	5.00	5.80	
2	14.492	14.493	-0.001	5979986	5.00	5.87	
						RPD = 1.21	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

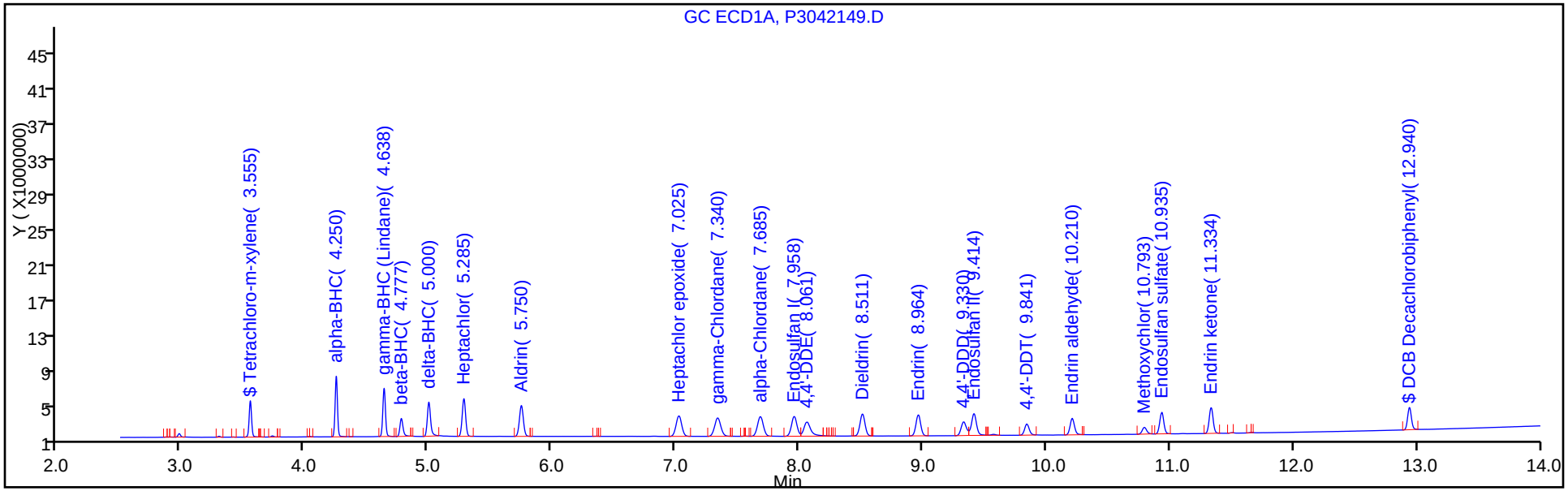
Report Date: 22-Apr-2015 08:58:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

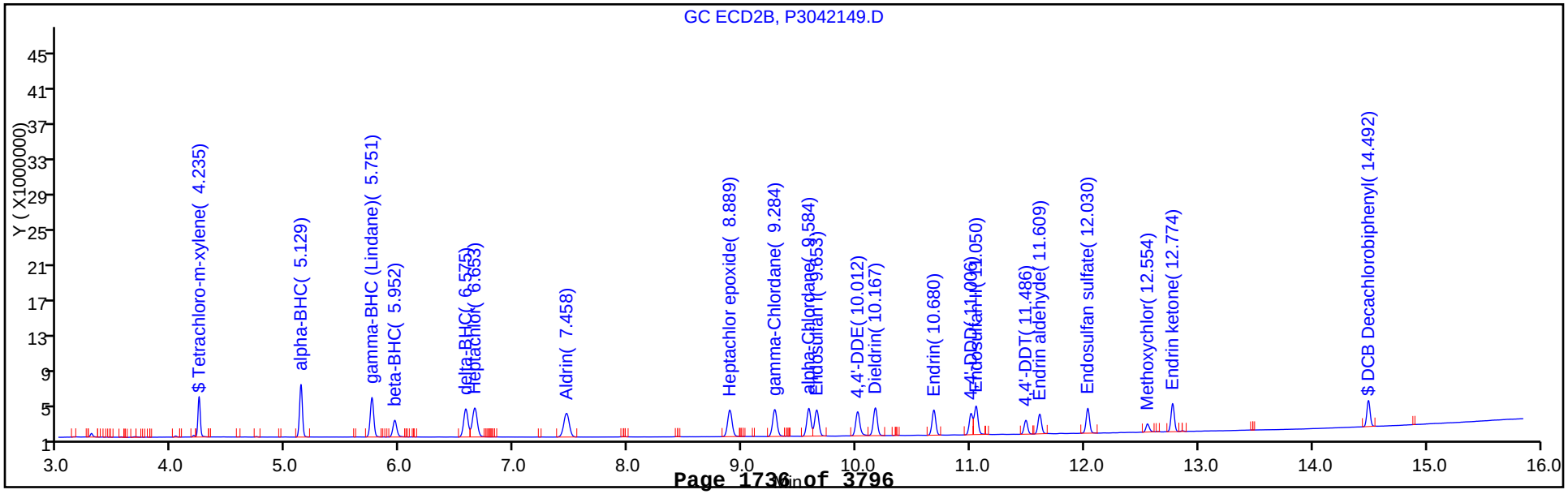
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D

Injection Date:	22-Apr-2015 07:12:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177258/49

Matrix: Solid | Lab File ID: P3042149.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 07:12

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	*Endrin*	*5.42*		*0.050*	4.2	*1.0*
58-89-9	*gamma-BHC (Lindane)*	*5.46*		*0.050*	4.2	*1.0*
76-44-8	*Heptachlor*	*5.96*		*0.050*	4.2	*0.42*
1024-57-3	*Heptachlor epoxide*	*5.86*		*0.050*	4.2	*1.2*
72-43-5	*Methoxychlor*	*3.94*		*0.10*	4.2	*1.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	117		50-150
877-09-8	Tetrachloro-m-xylene	118		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 07:12:11 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-049
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.554	0.001	5759700	5.00	5.86	
2	4.235	4.235	0.000	6674773	5.00	5.92	
						RPD = 1.13	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.250	4.250	0.000	9297189	5.00	5.37	
2	5.129	5.128	0.001	10527383	5.00	5.38	
						RPD = 0.18	
5 gamma-BHC (Lindane)							
1	4.638	4.637	0.001	8280119	5.00	5.36	
2	5.751	5.751	0.000	9653649	5.00	5.46	
						RPD = 1.70	
6 beta-BHC							
1	4.777	4.775	0.002	3650972	5.00	5.80	
2	5.952	5.950	0.002	4637872	5.00	6.04	
						RPD = 4.05	
7 delta-BHC							
1	5.000	4.998	0.002	7242641	5.00	4.82	
2	6.575	6.573	0.002	8681316	5.00	4.89	
						RPD = 1.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.283	0.002	8365986	5.00	5.73	
2	6.653	6.653	0.000	10069563	5.00	5.96	
						RPD = 3.82	
10 Aldrin							
1	5.750	5.748	0.002	7942814	5.00	5.43	
2	7.458	7.458	0.000	9285452	5.00	5.55	
						RPD = 2.18	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.021	0.004	7509932	5.00	5.76	
2	8.889	8.889	0.000	8417740	5.00	5.86	
						RPD = 1.80	
13 gamma-Chlordane							
1	7.340	7.337	0.003	7356533	5.00	5.45	
2	9.284	9.285	-0.001	8306900	5.00	5.65	
						RPD = 3.60	
14 alpha-Chlordane							
1	7.685	7.682	0.003	7453295	5.00	5.57	
2	9.584	9.583	0.001	8008390	5.00	5.64	
						RPD = 1.18	
15 Endosulfan I							
1	7.958	7.957	0.001	7090410	5.00	5.78	
2	9.653	9.651	0.002	7760039	5.00	5.87	
						RPD = 1.64	
16 4,4'-DDE							
1	8.061	8.056	0.005	6336434	5.00	5.35	
2	10.012	10.009	0.003	7190910	5.00	5.45	
						RPD = 1.80	
17 Dieldrin							
1	8.511	8.508	0.003	7266323	5.00	5.56	
2	10.167	10.167	0.000	7763329	5.00	5.67	
						RPD = 2.09	
18 Endrin							
1	8.964	8.962	0.002	6461451	5.00	5.61	
2	10.680	10.680	0.000	6537728	5.00	5.42	
						RPD = 3.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.322	0.008	4660374	5.00	5.35	
2	11.006	11.004	0.002	5123179	5.00	5.23	
						RPD = 2.25	
21 Endosulfan II							
1	9.414	9.411	0.003	7125507	5.00	6.16	
2	11.050	11.050	0.000	7587472	5.00	6.49	
						RPD = 5.20	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.841	9.838	0.003	3331675	5.00	3.49	
2	11.486	11.487	-0.001	3447548	5.00	3.45	
						RPD = 0.96	
25 Endrin aldehyde							
1	10.210	10.206	0.004	4710760	5.00	5.29	
2	11.609	11.609	0.000	4861346	5.00	5.21	
						RPD = 1.57	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.793	10.789	0.004	1940360	5.00	4.23	
2	12.554	12.553	0.001	1928694	5.00	3.94	
						RPD = 7.14	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	5653115	5.00	5.67	
2	12.030	12.030	0.000	5971930	5.00	5.64	
						RPD = 0.64	
29 Endrin ketone							
1	11.334	11.333	0.001	6578132	5.00	5.38	
2	12.774	12.773	0.001	6574509	5.00	5.35	
						RPD = 0.54	

Report Date: 22-Apr-2015 08:58:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.938	0.002	5434719	5.00	5.80	
2	14.492	14.493	-0.001	5979986	5.00	5.87	
						RPD = 1.21	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

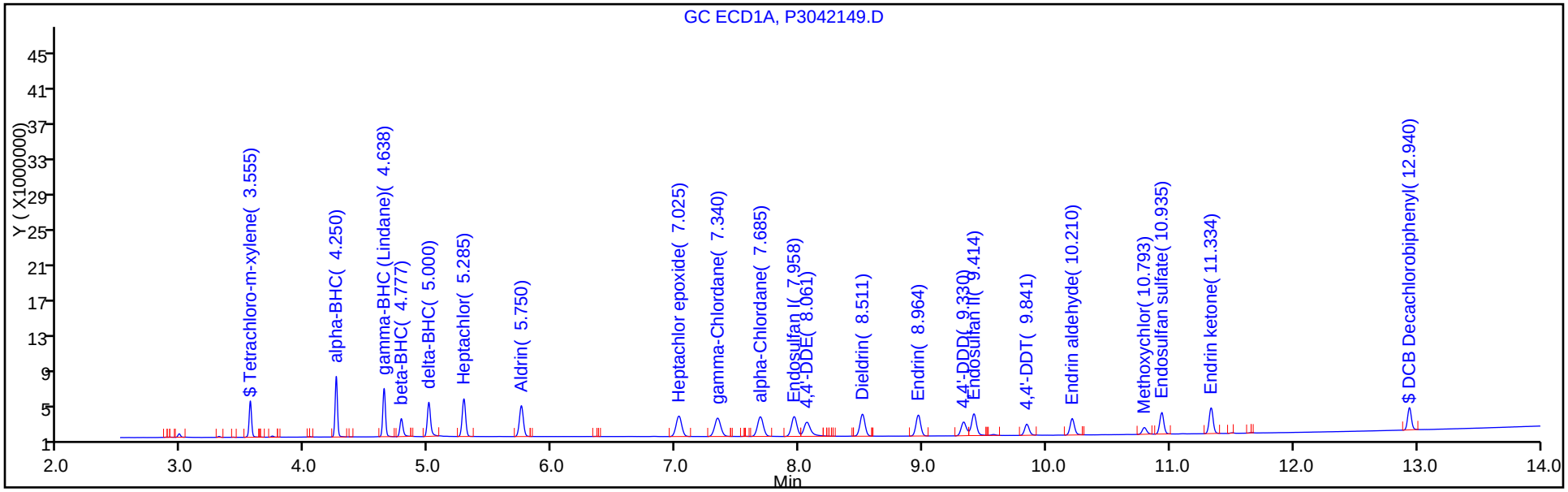
Report Date: 22-Apr-2015 08:58:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

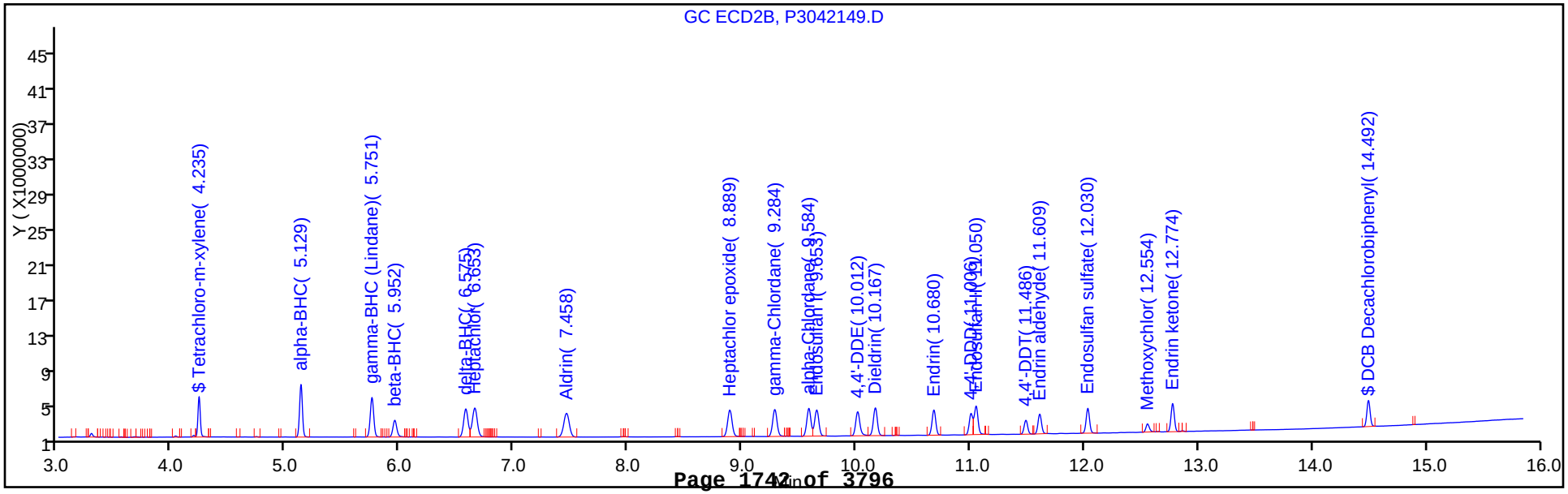
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D

Injection Date:	22-Apr-2015 07:12:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/10

Matrix: Water Lab File ID: P3042710.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 14:15

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	151		2.0	83	16

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042710.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 14:15:00 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-010
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 14:40:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550					ND	
2	4.231						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.246					ND	
2	5.123						
5 gamma-BHC (Lindane)							
1	4.633					ND	
2	5.744						
6 beta-BHC							
1	4.770					ND	
2	5.942						
7 delta-BHC							
1	4.992					ND	
2	6.564						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					
21 Endosulfan II							
1		9.402				ND	
2		11.041					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.614	9.608	0.006	5974197	200.0	157.9	M
1	10.076	10.072	0.004	6161694	200.0	168.1	M
1	10.387	10.384	0.003	3352756	200.0	143.6	M
1	10.730	10.723	0.007	5642928	200.0	170.1	M
1	10.836	10.833	0.003	3721168	200.0	115.1	M
		Average of Peak Amounts =				151.0	
2	11.020	11.019	0.001	7610055	200.0	146.8	
2	11.187	11.186	0.001	8506730	200.0	166.9	
2	11.612	11.611	0.001	5568607	200.0	156.2	
2	12.345	12.346	-0.001	7446067	200.0	163.2	
2	12.437	12.436	0.001	1997599	200.0	128.3	
		Average of Peak Amounts =				152.3	
						RPD = 0.88	
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.785				ND	
2		12.546					
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1		12.930				ND	
2		14.484					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

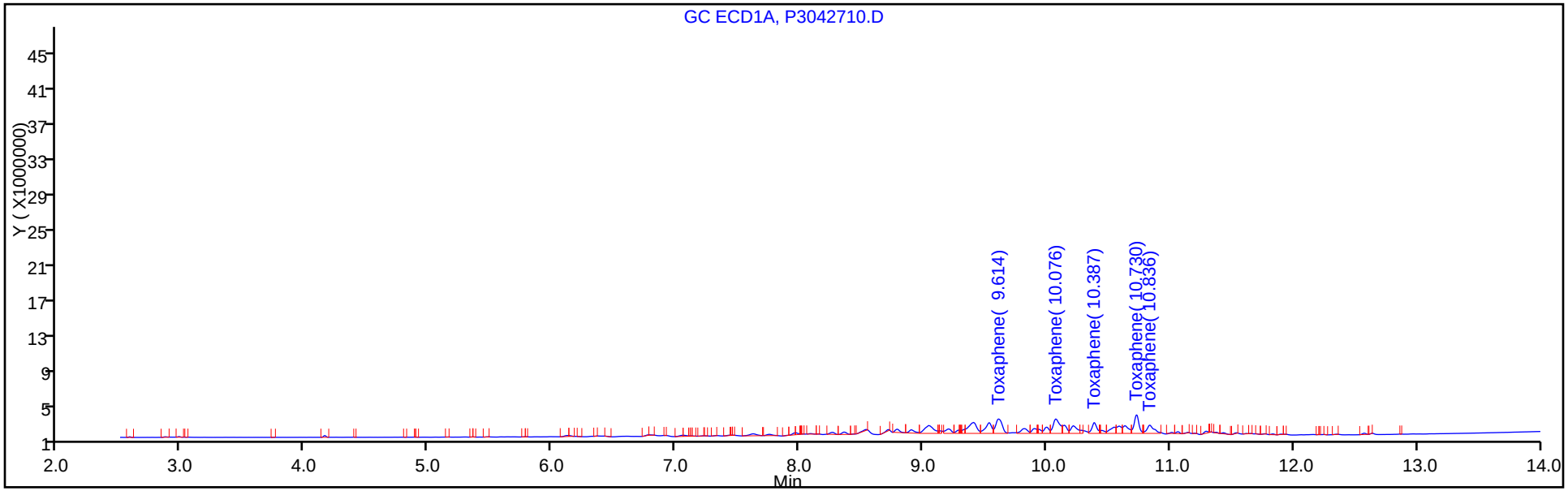
Report Date: 28-Apr-2015 08:11:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

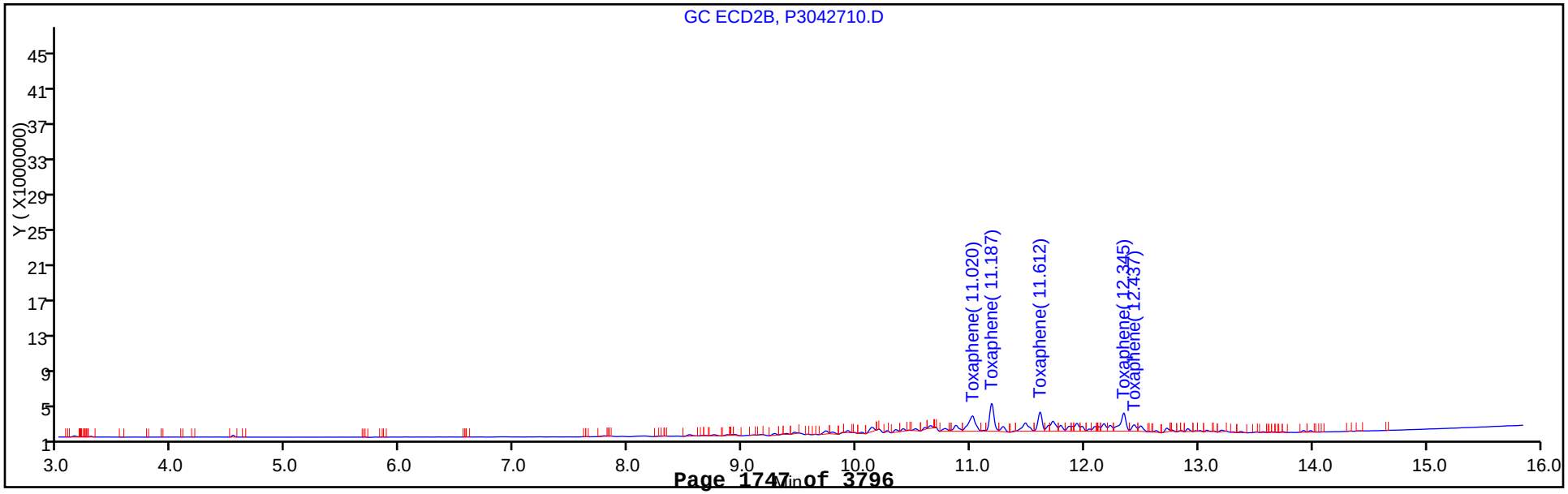
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042710.D

Injection Date:	27-Apr-2015 14:15:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042710.D

Injection Date: 27-Apr-2015 14:15:00 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 10 Worklist Smp#: 10

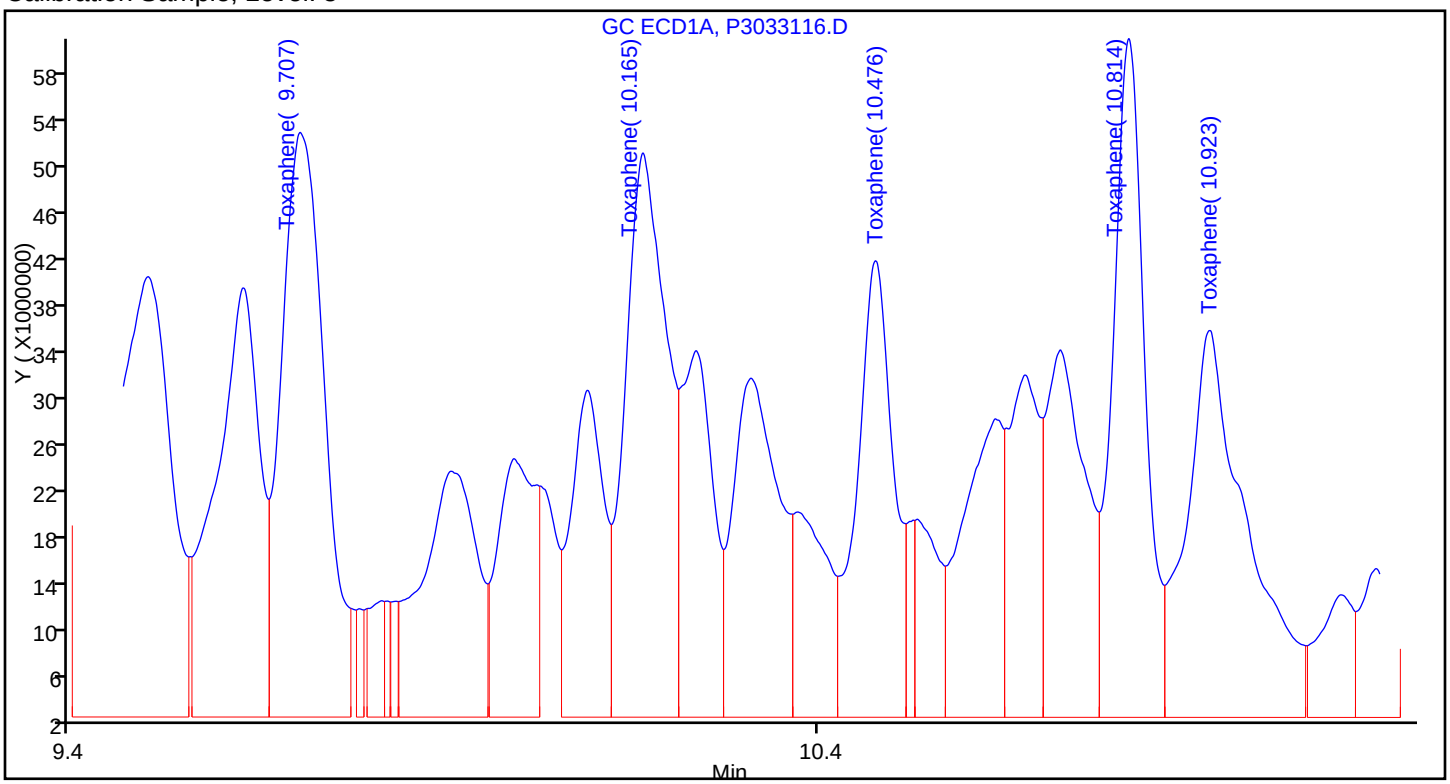
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

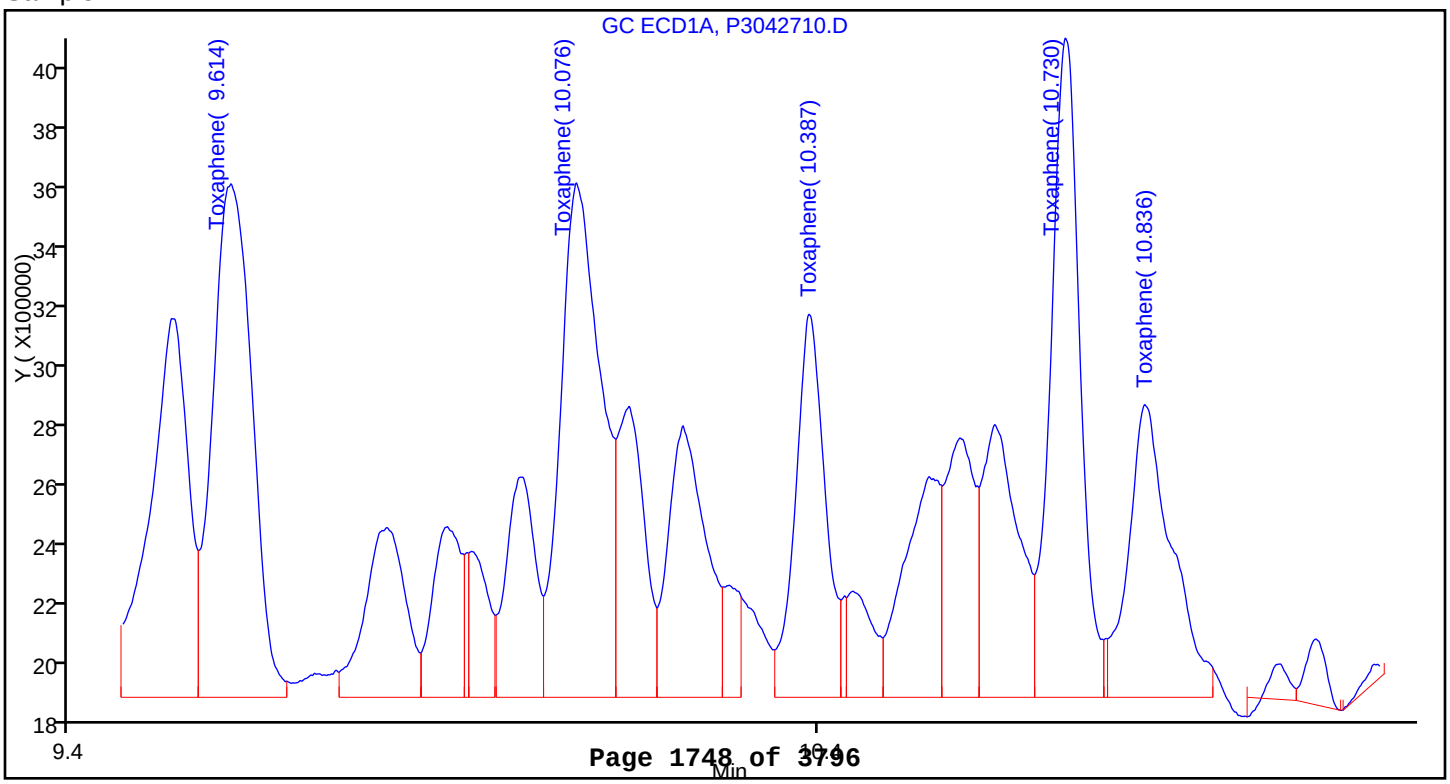
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 28-Apr-2015 08:11:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042710.D

Injection Date: 27-Apr-2015 14:15:00 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

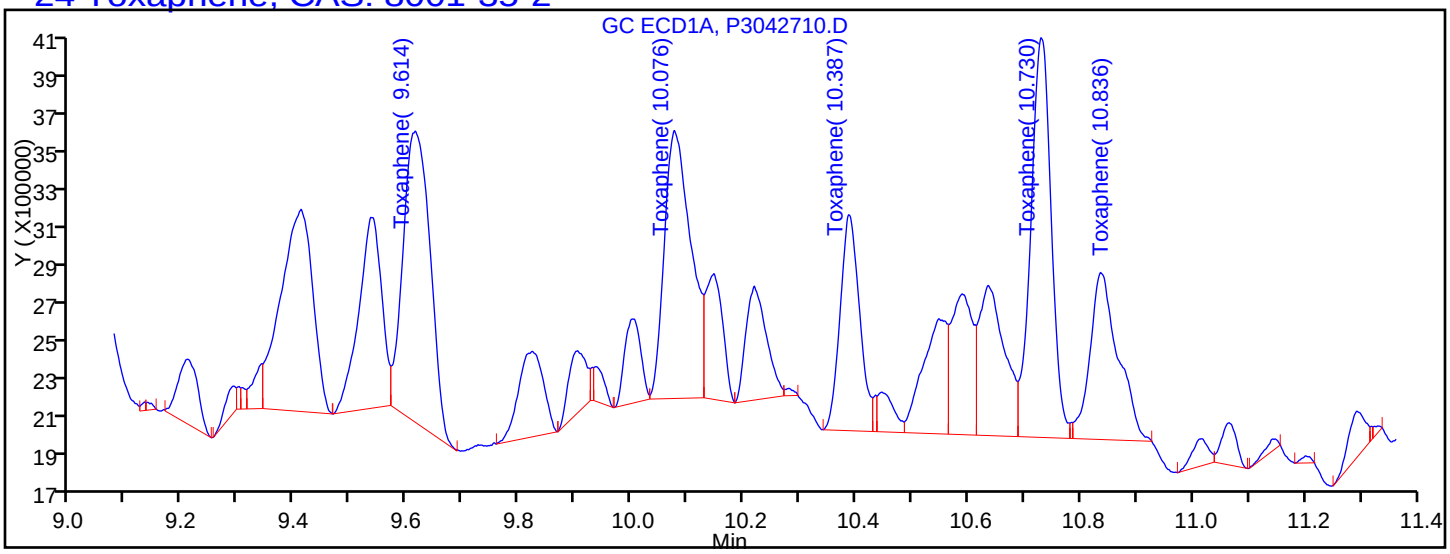
Operator ID: 430893 ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

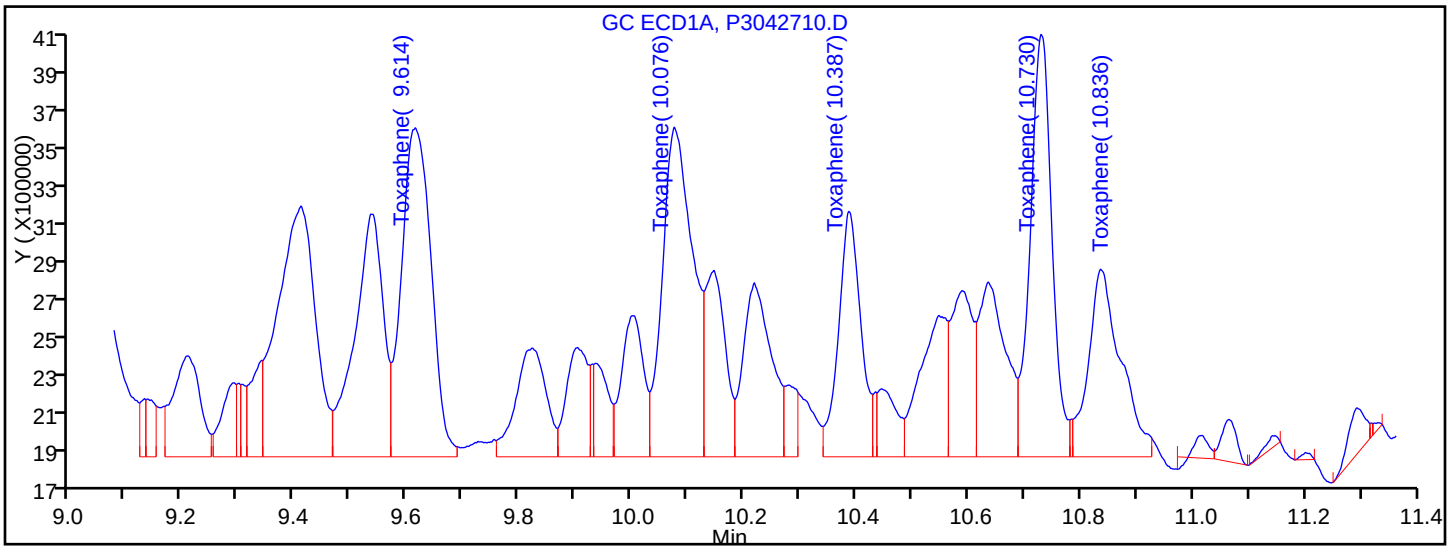
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.614	Response = 4857527	M
RT = 10.076	Response = 4394121	M
RT = 10.387	Response = 2581192	M
RT = 10.730	Response = 5023653	M
RT = 10.836	Response = 2878289	M



Manual Integration Results

RT = 9.614	Response = 5974197	M
RT = 10.076	Response = 6161694	M
RT = 10.387	Response = 3352756	M
RT = 10.730	Response = 5642928	M
RT = 10.836	Response = 3721168	M

Reviewer: matthewsb, 27-Apr-2015 14:40:06

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/10

Matrix: Water Lab File ID: P3042710.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 14:15

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*152*		*2.0*	83	*16*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042710.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 14:15:00 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-010
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 27-Apr-2015 14:40:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550					ND	
2	4.231						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.246					ND	
2	5.123						
5 gamma-BHC (Lindane)							
1	4.633					ND	
2	5.744						
6 beta-BHC							
1	4.770					ND	
2	5.942						
7 delta-BHC							
1	4.992					ND	
2	6.564						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					
21 Endosulfan II							
1		9.402				ND	
2		11.041					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.614	9.608	0.006	5974197	200.0	157.9	M
1	10.076	10.072	0.004	6161694	200.0	168.1	M
1	10.387	10.384	0.003	3352756	200.0	143.6	M
1	10.730	10.723	0.007	5642928	200.0	170.1	M
1	10.836	10.833	0.003	3721168	200.0	115.1	M
		Average of Peak Amounts =				151.0	
2	11.020	11.019	0.001	7610055	200.0	146.8	
2	11.187	11.186	0.001	8506730	200.0	166.9	
2	11.612	11.611	0.001	5568607	200.0	156.2	
2	12.345	12.346	-0.001	7446067	200.0	163.2	
2	12.437	12.436	0.001	1997599	200.0	128.3	
		Average of Peak Amounts =				152.3	
						RPD = 0.88	
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.785				ND	
2		12.546					
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1		12.930				ND	
2		14.484					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

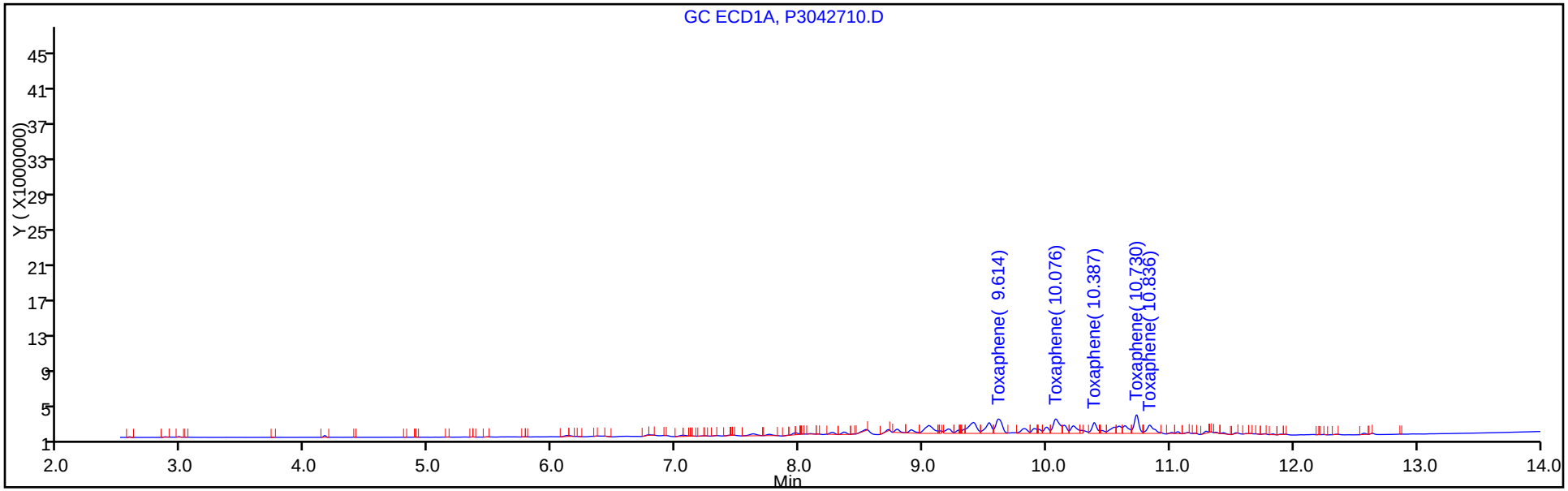
Report Date: 28-Apr-2015 08:11:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

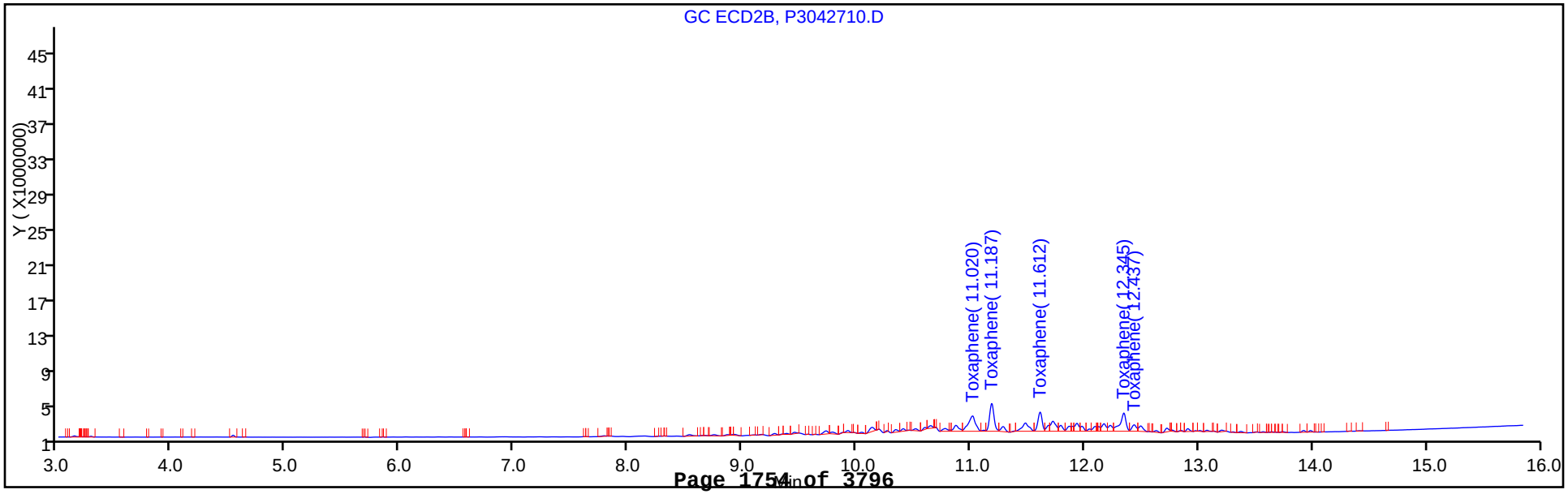
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042710.D

Injection Date:	27-Apr-2015 14:15:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042710.D

Injection Date: 27-Apr-2015 14:15:00 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 10 Worklist Smp#: 10

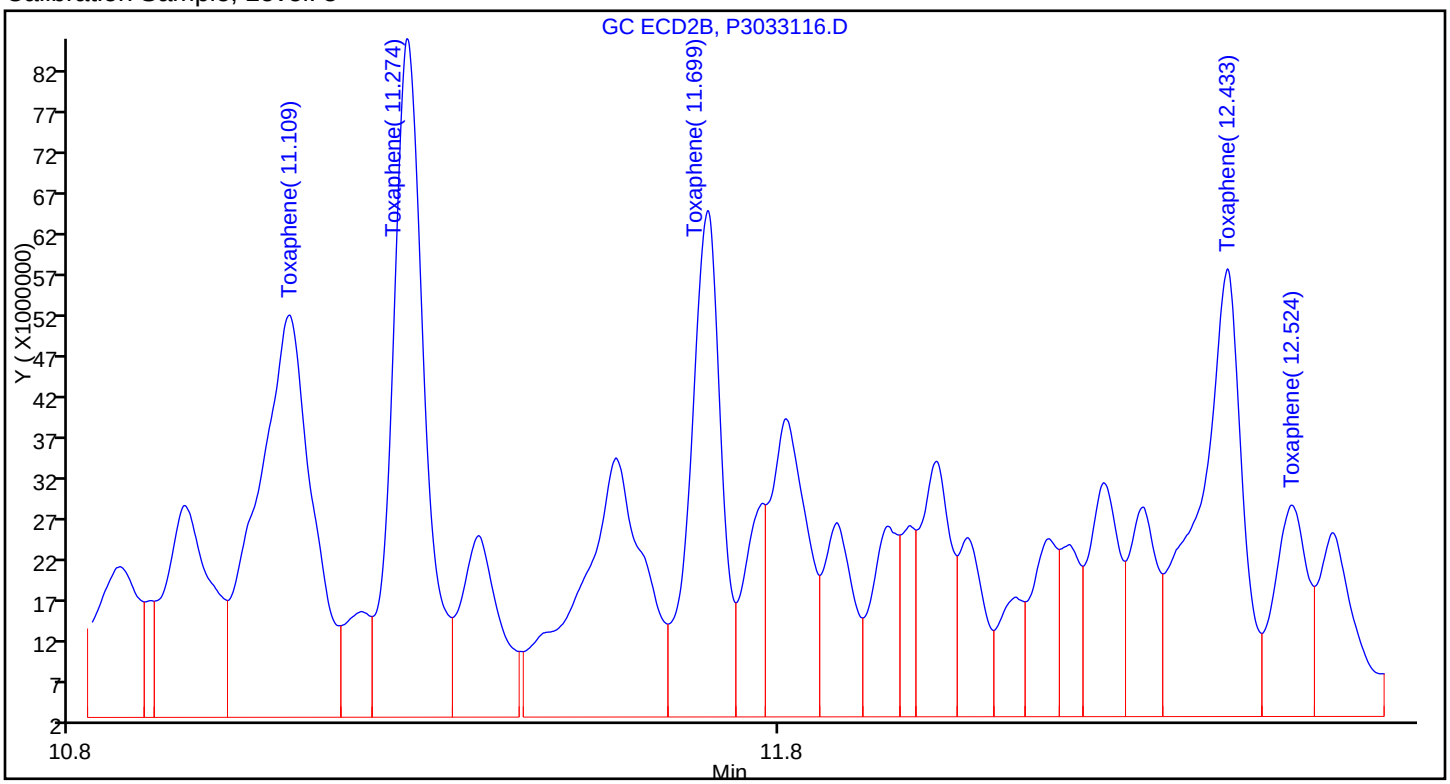
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

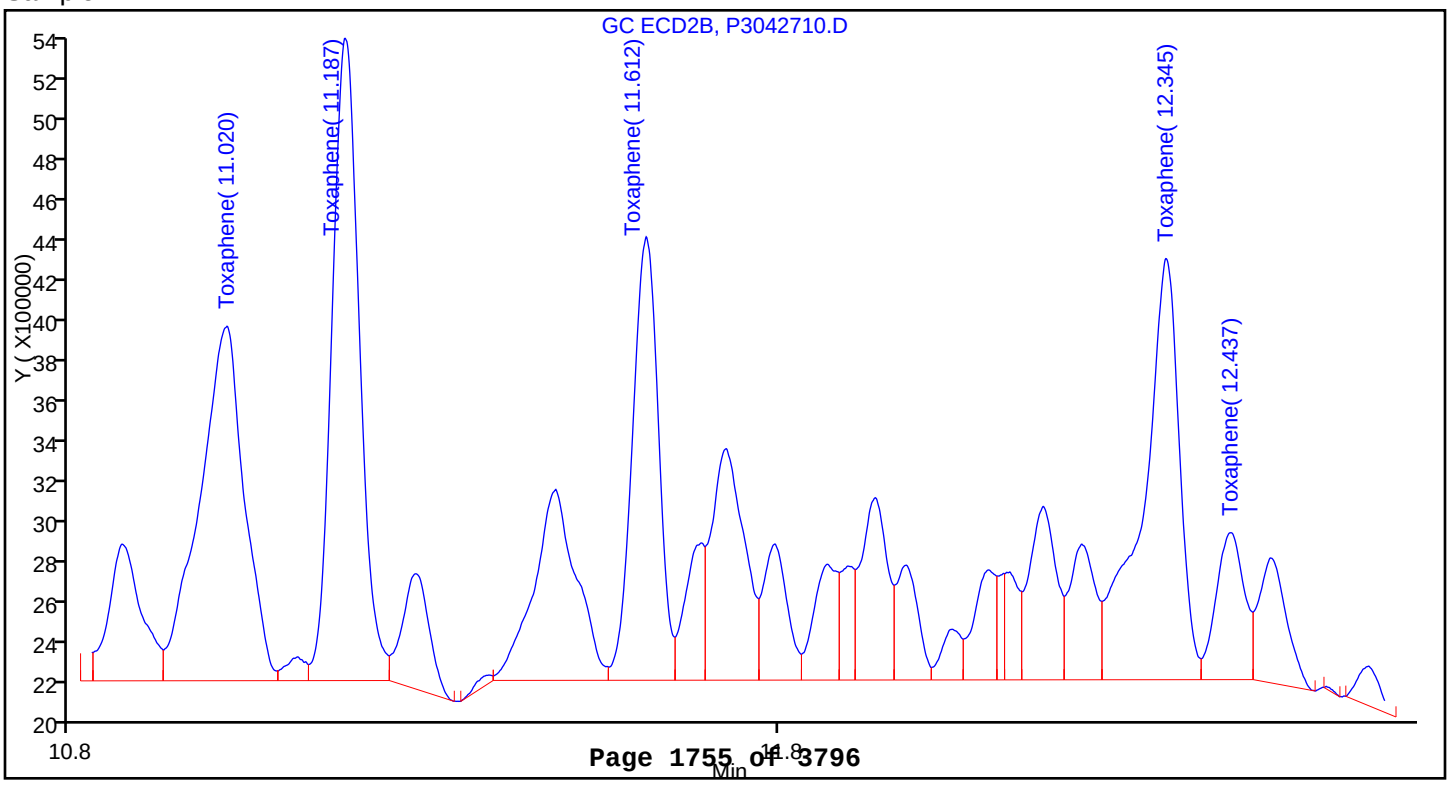
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/11

Matrix: Water Lab File ID: P3042711.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 14:40

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	23.1		0.50	6.7	2.8

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042711.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 14:40:00 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-011
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:17:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550					ND	
2	4.231						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.246					ND	
2	5.123						
5 gamma-BHC (Lindane)							
1	4.633					ND	
2	5.744						
6 beta-BHC							
1	4.770					ND	
2	5.942						
7 delta-BHC							
1	4.992					ND	
2	6.564						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.163	5.161	0.002	1002616	20.0	23.4	
1	6.052	6.047	0.005	1209481	20.0	24.5	
1	7.333	7.325	0.008	3734968	20.0	22.4	
1	7.673	7.669	0.004	5725976	20.0	22.0	
		Average of Peak Amounts =				23.1	
2	6.318	6.319	-0.001	1201586	20.0	24.5	
2	7.942	7.942	0.000	1438685	20.0	24.8	
2	9.276	9.276	0.000	3947899	20.0	22.3	
2	9.574	9.574	0.000	3511595	20.0	22.2	
		Average of Peak Amounts =				23.5	
						RPD = 1.64	
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1		9.402				ND	
2		11.041					
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.785				ND	
2		12.546					
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1		12.930				ND	
2		14.484					

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

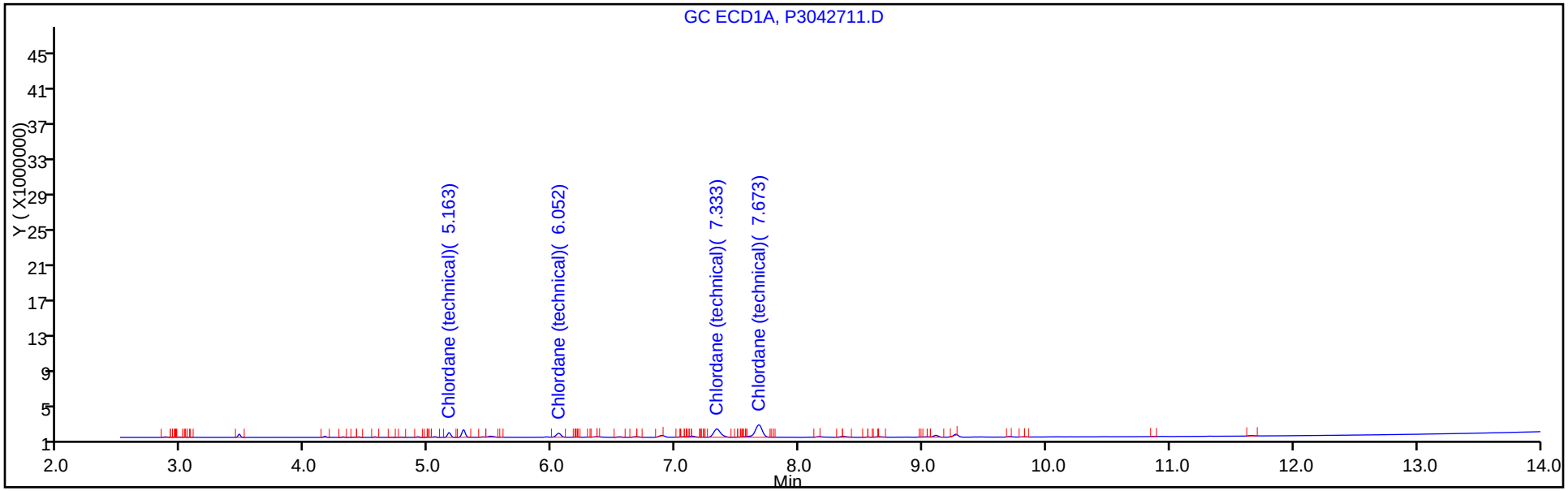
Report Date: 28-Apr-2015 08:11:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

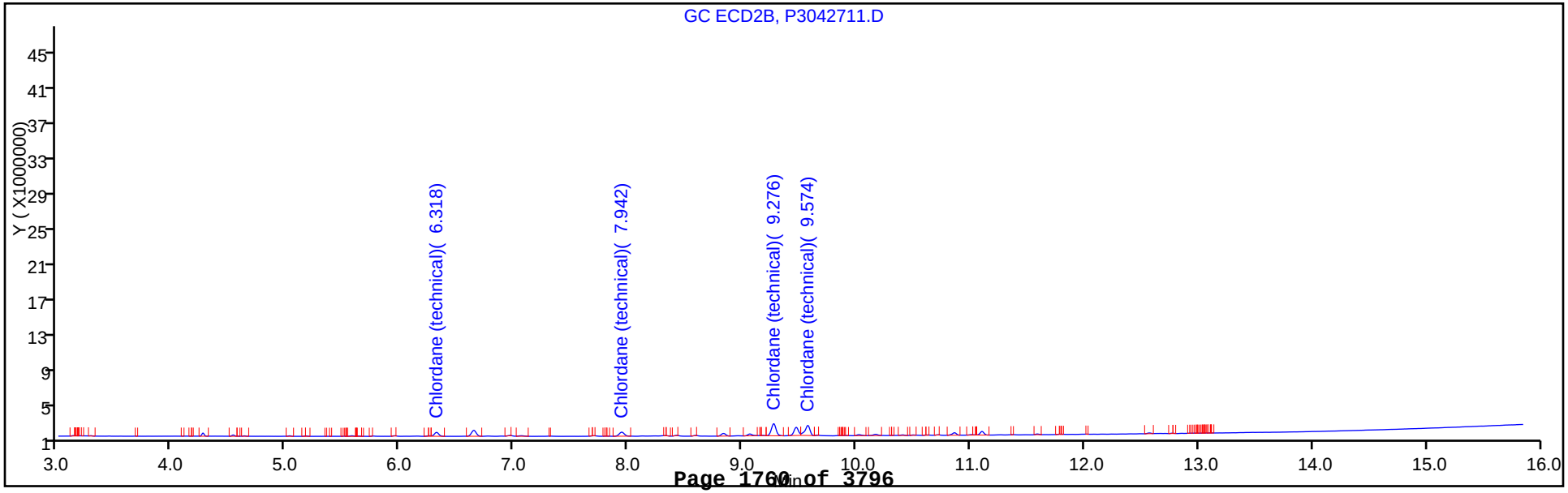
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042711.D

Injection Date:	27-Apr-2015 14:40:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

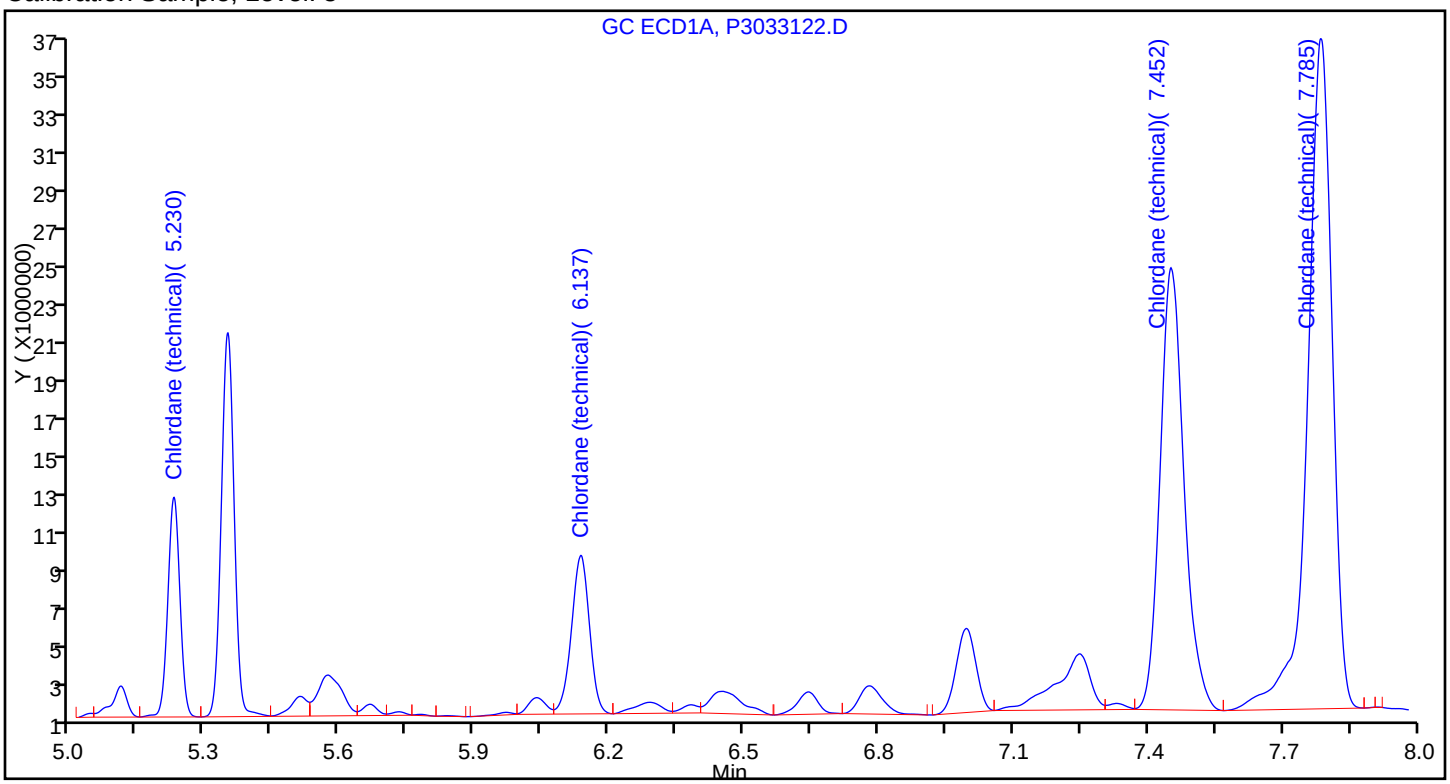
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042711.D

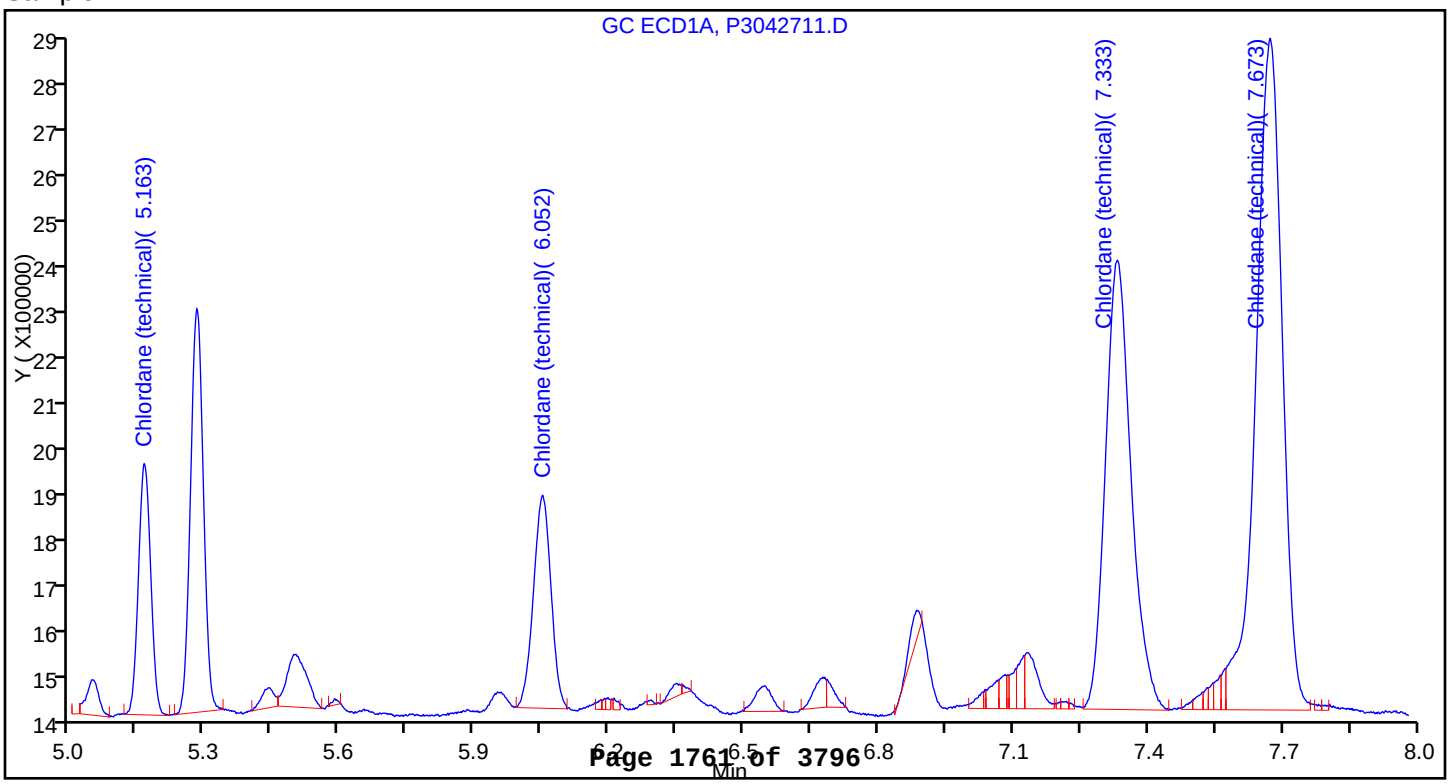
Injection Date:	27-Apr-2015 14:40:00	Instrument ID:	A2HP3		
Lims ID:	MRL TC				
Client ID:					
Operator ID:	430893	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ECD1A		

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/11

Matrix: Water Lab File ID: P3042711.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 14:40

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	*Chlordane (technical)*	*23.5*		*0.50*	6.7	*2.8*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042711.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 14:40:00 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-011
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:17:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550					ND	
2	4.231						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.246					ND	
2	5.123						
5 gamma-BHC (Lindane)							
1	4.633					ND	
2	5.744						
6 beta-BHC							
1	4.770					ND	
2	5.942						
7 delta-BHC							
1	4.992					ND	
2	6.564						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.163	5.161	0.002	1002616	20.0	23.4	
1	6.052	6.047	0.005	1209481	20.0	24.5	
1	7.333	7.325	0.008	3734968	20.0	22.4	
1	7.673	7.669	0.004	5725976	20.0	22.0	
		Average of Peak Amounts =				23.1	
2	6.318	6.319	-0.001	1201586	20.0	24.5	
2	7.942	7.942	0.000	1438685	20.0	24.8	
2	9.276	9.276	0.000	3947899	20.0	22.3	
2	9.574	9.574	0.000	3511595	20.0	22.2	
		Average of Peak Amounts =				23.5	
						RPD = 1.64	
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1		9.402				ND	
2		11.041					
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.785				ND	
2		12.546					
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1		12.930				ND	
2		14.484					

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

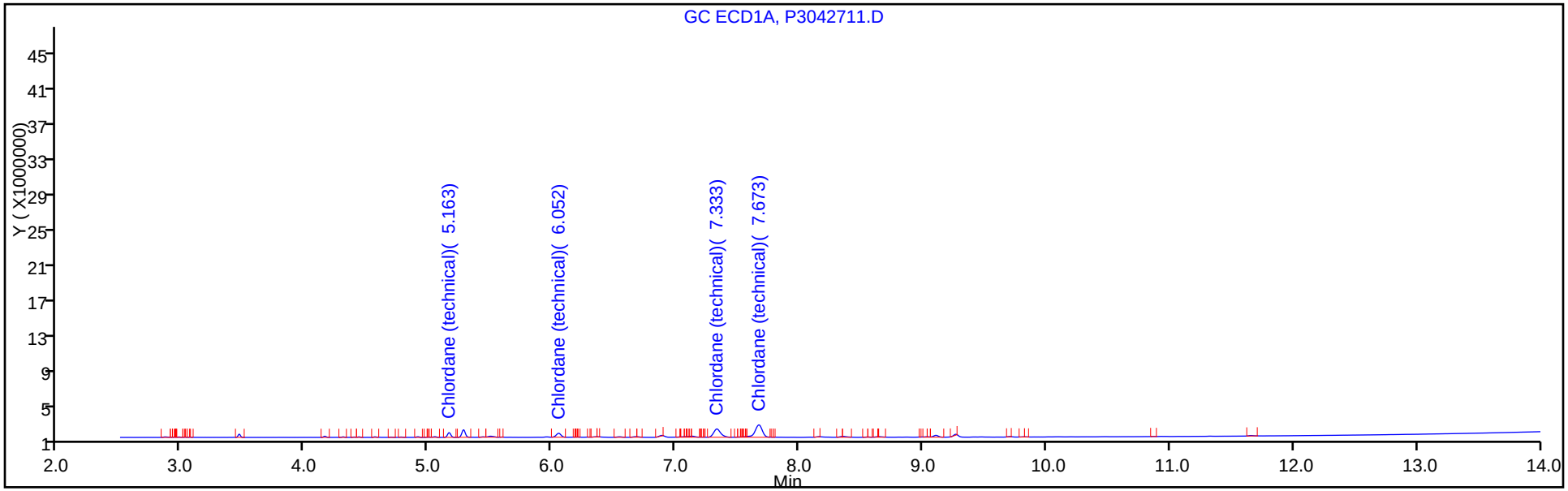
Report Date: 28-Apr-2015 08:11:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

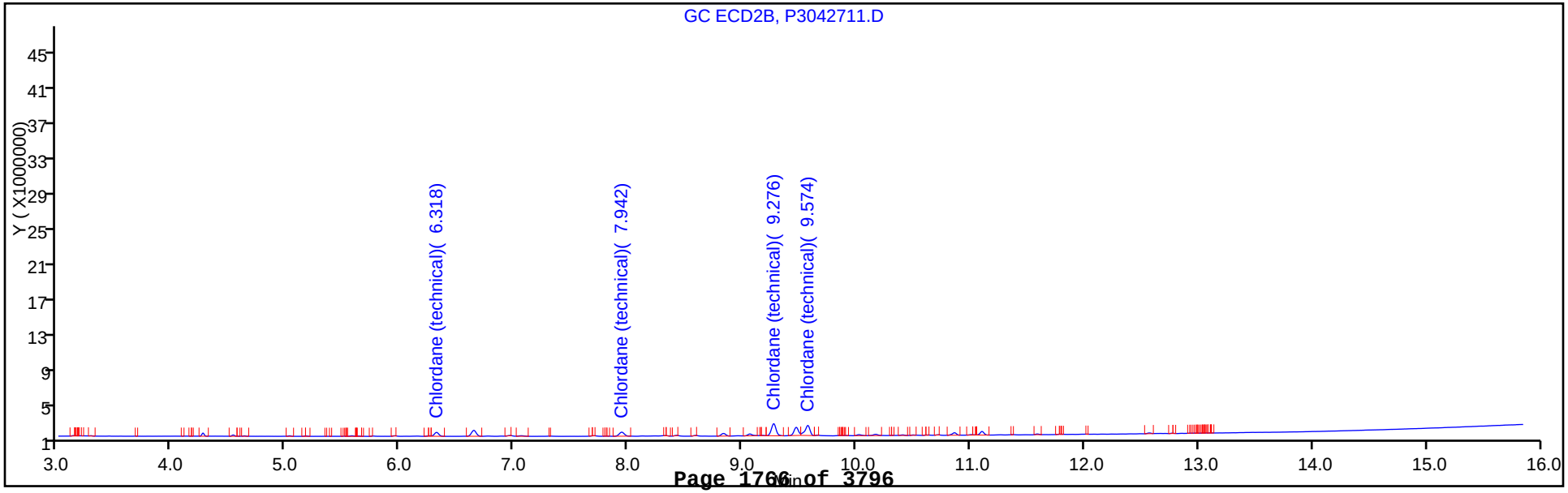
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042711.D

Injection Date:	27-Apr-2015 14:40:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

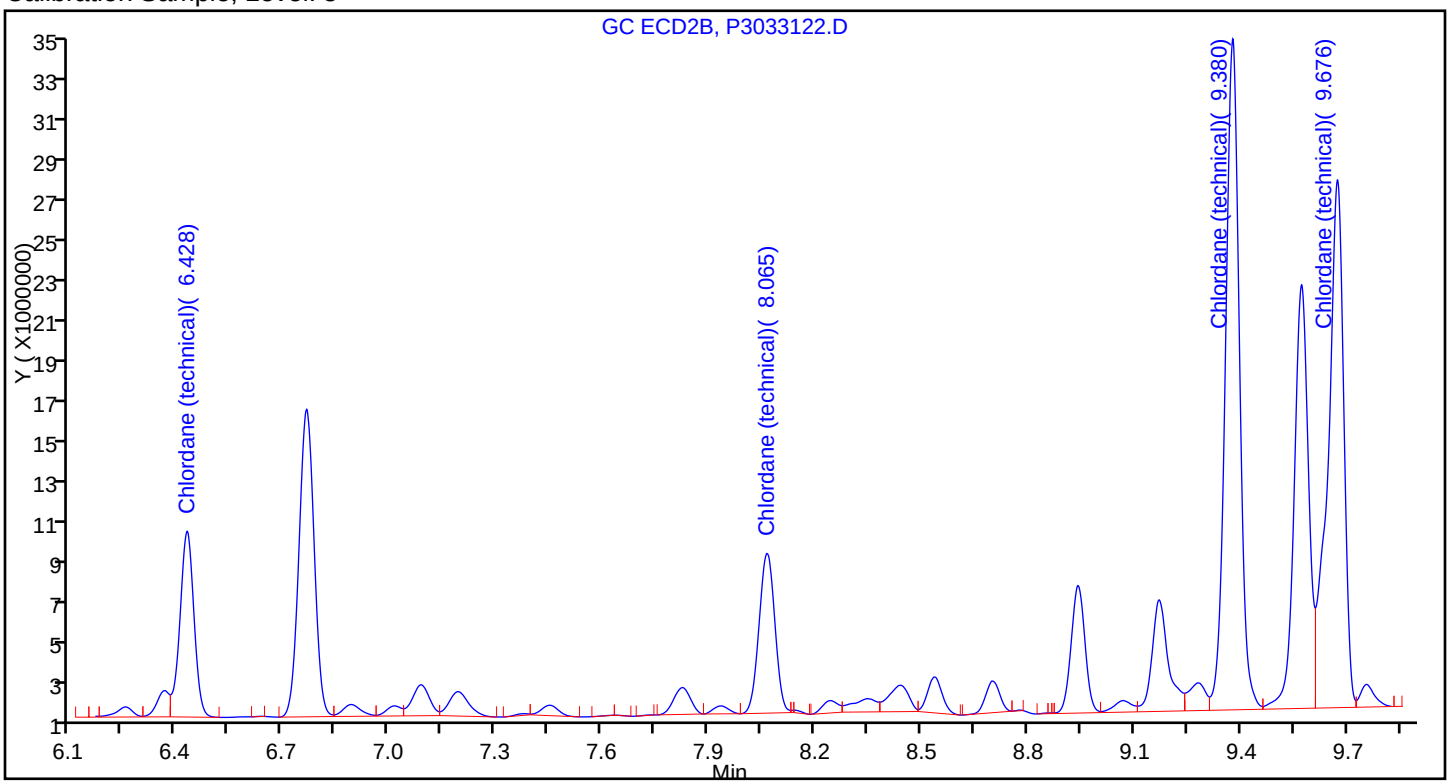
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042711.D

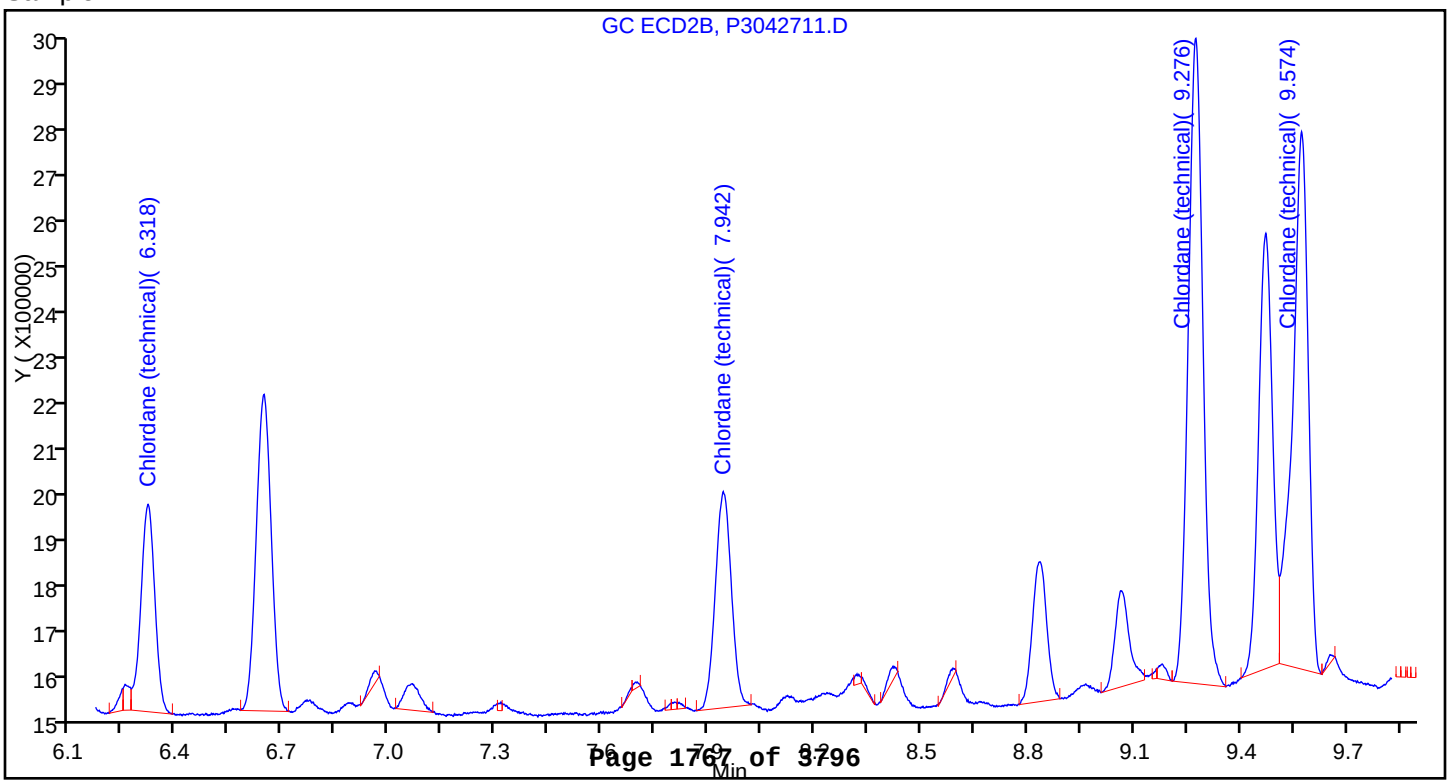
Injection Date:	27-Apr-2015 14:40:00	Instrument ID:	A2HP3		
Lims ID:	MRL TC				
Client ID:					
Operator ID:	430893	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ecd2b		

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-178086/12

Matrix: Water | Lab File ID: P3042712.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/27/2015 15:04

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	Endrin	4.63		0.050	4.2	1.0
58-89-9	gamma-BHC (Lindane)	5.09		0.050	4.2	1.0
76-44-8	Heptachlor	5.21		0.050	4.2	0.42
1024-57-3	Heptachlor epoxide	5.45		0.050	4.2	1.2
72-43-5	Methoxychlor	5.00		0.10	4.2	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		50-150
877-09-8	Tetrachloro-m-xylene	109		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042712.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 15:04:41 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-012
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.550	0.004	5370551	5.00	5.46	
2	4.231	4.231	0.000	6354040	5.00	5.64	
						RPD = 3.20	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.249	4.246	0.003	8579455	5.00	4.95	
2	5.123	5.123	0.000	9798217	5.00	5.01	
						RPD = 1.03	
5 gamma-BHC (Lindane)							
1	4.636	4.633	0.003	7859266	5.00	5.09	
2	5.744	5.744	0.000	9099053	5.00	5.14	
						RPD = 1.00	
6 beta-BHC							
1	4.775	4.770	0.005	3587184	5.00	5.70	
2	5.943	5.942	0.001	4300922	5.00	5.60	
						RPD = 1.73	
7 delta-BHC							
1	4.997	4.992	0.005	7145317	5.00	4.75	
2	6.564	6.564	0.000	8409995	5.00	4.74	
						RPD = 0.30	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1	5.281	5.276	0.005	7600613	5.00	5.21	
2	6.645	6.645	0.000	9157662	5.00	5.42	
						RPD = 3.92	
10 Aldrin							
1	5.746	5.740	0.006	7577899	5.00	5.18	
2	7.448	7.448	0.000	8867685	5.00	5.30	
						RPD = 2.28	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.018	7.013	0.005	7112497	5.00	5.45	
2	8.882	8.882	0.000	7950085	5.00	5.54	
						RPD = 1.52	
13 gamma-Chlordane							
1	7.331	7.324	0.007	7036966	5.00	5.21	
2	9.277	9.276	0.001	8002823	5.00	5.44	
						RPD = 4.31	
14 alpha-Chlordane							
1	7.678	7.671	0.007	7136160	5.00	5.34	
2	9.575	9.575	0.000	7789163	5.00	5.48	
						RPD = 2.75	
15 Endosulfan I							
1	7.951	7.944	0.007	6557618	5.00	5.34	
2	9.644	9.645	-0.001	7250619	5.00	5.49	
						RPD = 2.66	
16 4,4'-DDE							
1	8.057	8.047	0.010	5604556	5.00	4.73	
2	10.002	10.002	0.000	6343823	5.00	4.80	
						RPD = 1.54	
17 Dieldrin							
1	8.504	8.501	0.003	6508661	5.00	4.98	
2	10.158	10.158	0.000	7098634	5.00	5.19	
						RPD = 4.15	
18 Endrin							
1	8.957	8.955	0.002	5329516	5.00	4.63	
2	10.672	10.672	0.000	5572502	5.00	4.62	
						RPD = 0.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.327	9.318	0.009	3108342	5.00	3.57	
2	10.997	10.995	0.002	3970162	5.00	4.06	
						RPD = 12.73	
21 Endosulfan II							
1	9.407	9.402	0.005	6169607	5.00	5.33	
2	11.042	11.041	0.001	6299847	5.00	5.39	
						RPD = 1.01	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1	9.836	9.831	0.005	4201784	5.00	4.40	
2	11.479	11.479	0.000	4506307	5.00	4.52	
						RPD = 2.61	
25 Endrin aldehyde							
1	10.203	10.199	0.004	4277872	5.00	4.80	
2	11.601	11.600	0.001	4562092	5.00	4.89	
						RPD = 1.72	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.792	10.785	0.007	2292829	5.00	5.00	
2	12.547	12.546	0.001	2502733	5.00	5.12	
						RPD = 2.22	
28 Endosulfan sulfate							
1	10.928	10.924	0.004	5120116	5.00	5.14	
2	12.022	12.023	-0.001	5439033	5.00	5.14	
						RPD = 0.08	
29 Endrin ketone							
1	11.327	11.323	0.004	6099072	5.00	4.99	
2	12.766	12.766	0.000	6269807	5.00	5.11	
						RPD = 2.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.933	12.930	0.003	4736085	5.00	5.06	
2	14.484	14.484	0.000	5140740	5.00	5.05	
						RPD = 0.15	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

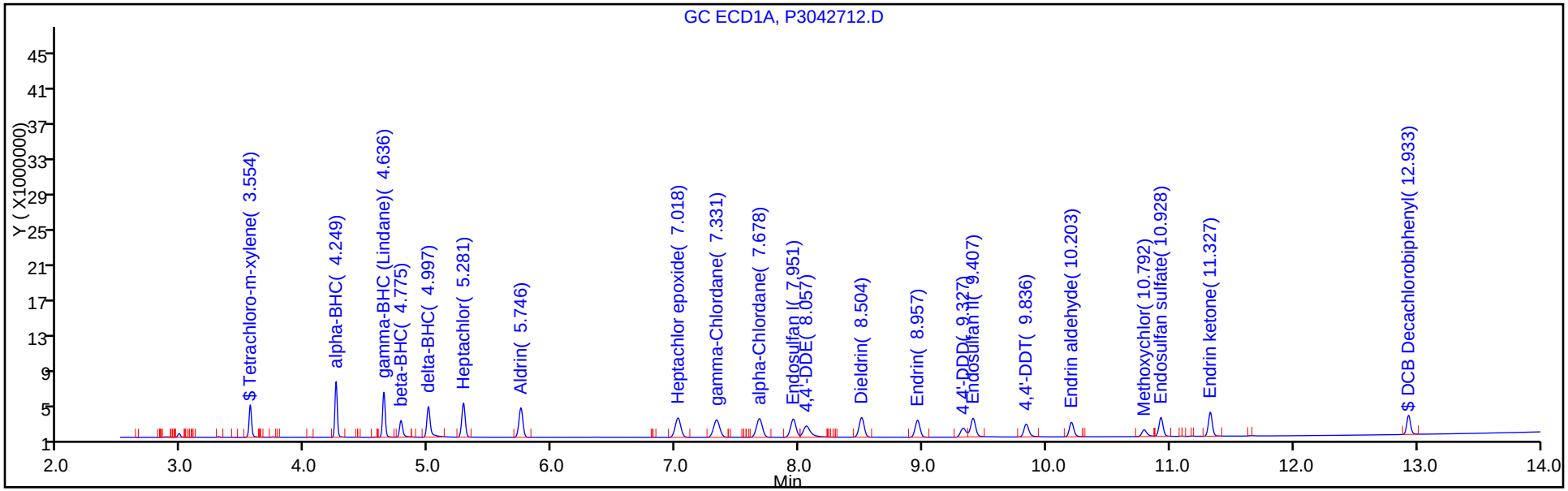
Report Date: 28-Apr-2015 08:11:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

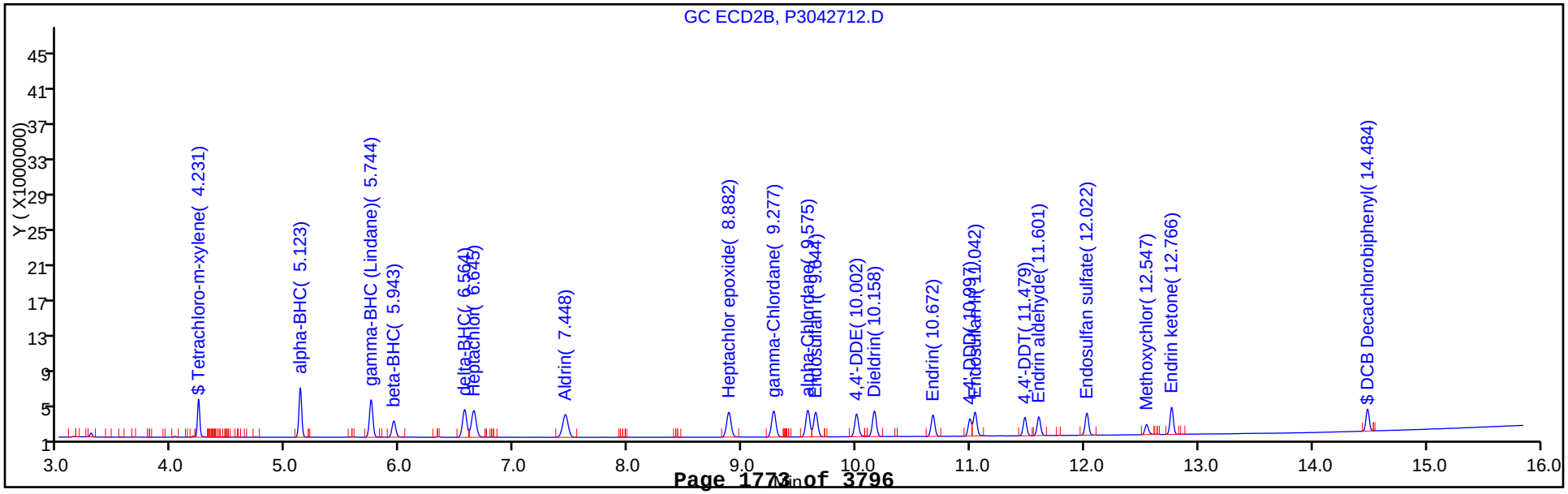
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042712.D

Injection Date:	27-Apr-2015 15:04:41	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-178086/12

Matrix: Water | Lab File ID: P3042712.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/27/2015 15:04

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	*Endrin*	*4.62*		*0.050*	4.2	*1.0*
58-89-9	*gamma-BHC (Lindane)*	*5.14*		*0.050*	4.2	*1.0*
76-44-8	*Heptachlor*	*5.42*		*0.050*	4.2	*0.42*
1024-57-3	*Heptachlor epoxide*	*5.54*		*0.050*	4.2	*1.2*
72-43-5	*Methoxychlor*	*5.12*		*0.10*	4.2	*1.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		50-150
877-09-8	Tetrachloro-m-xylene	113		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042712.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 15:04:41 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-012
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.550	0.004	5370551	5.00	5.46	
2	4.231	4.231	0.000	6354040	5.00	5.64	
						RPD = 3.20	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.249	4.246	0.003	8579455	5.00	4.95	
2	5.123	5.123	0.000	9798217	5.00	5.01	
						RPD = 1.03	
5 gamma-BHC (Lindane)							
1	4.636	4.633	0.003	7859266	5.00	5.09	
2	5.744	5.744	0.000	9099053	5.00	5.14	
						RPD = 1.00	
6 beta-BHC							
1	4.775	4.770	0.005	3587184	5.00	5.70	
2	5.943	5.942	0.001	4300922	5.00	5.60	
						RPD = 1.73	
7 delta-BHC							
1	4.997	4.992	0.005	7145317	5.00	4.75	
2	6.564	6.564	0.000	8409995	5.00	4.74	
						RPD = 0.30	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1	5.281	5.276	0.005	7600613	5.00	5.21	
2	6.645	6.645	0.000	9157662	5.00	5.42	
						RPD = 3.92	
10 Aldrin							
1	5.746	5.740	0.006	7577899	5.00	5.18	
2	7.448	7.448	0.000	8867685	5.00	5.30	
						RPD = 2.28	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.018	7.013	0.005	7112497	5.00	5.45	
2	8.882	8.882	0.000	7950085	5.00	5.54	
						RPD = 1.52	
13 gamma-Chlordane							
1	7.331	7.324	0.007	7036966	5.00	5.21	
2	9.277	9.276	0.001	8002823	5.00	5.44	
						RPD = 4.31	
14 alpha-Chlordane							
1	7.678	7.671	0.007	7136160	5.00	5.34	
2	9.575	9.575	0.000	7789163	5.00	5.48	
						RPD = 2.75	
15 Endosulfan I							
1	7.951	7.944	0.007	6557618	5.00	5.34	
2	9.644	9.645	-0.001	7250619	5.00	5.49	
						RPD = 2.66	
16 4,4'-DDE							
1	8.057	8.047	0.010	5604556	5.00	4.73	
2	10.002	10.002	0.000	6343823	5.00	4.80	
						RPD = 1.54	
17 Dieldrin							
1	8.504	8.501	0.003	6508661	5.00	4.98	
2	10.158	10.158	0.000	7098634	5.00	5.19	
						RPD = 4.15	
18 Endrin							
1	8.957	8.955	0.002	5329516	5.00	4.63	
2	10.672	10.672	0.000	5572502	5.00	4.62	
						RPD = 0.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.327	9.318	0.009	3108342	5.00	3.57	
2	10.997	10.995	0.002	3970162	5.00	4.06	
						RPD = 12.73	
21 Endosulfan II							
1	9.407	9.402	0.005	6169607	5.00	5.33	
2	11.042	11.041	0.001	6299847	5.00	5.39	
						RPD = 1.01	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1	9.836	9.831	0.005	4201784	5.00	4.40	
2	11.479	11.479	0.000	4506307	5.00	4.52	
						RPD = 2.61	
25 Endrin aldehyde							
1	10.203	10.199	0.004	4277872	5.00	4.80	
2	11.601	11.600	0.001	4562092	5.00	4.89	
						RPD = 1.72	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.792	10.785	0.007	2292829	5.00	5.00	
2	12.547	12.546	0.001	2502733	5.00	5.12	
						RPD = 2.22	
28 Endosulfan sulfate							
1	10.928	10.924	0.004	5120116	5.00	5.14	
2	12.022	12.023	-0.001	5439033	5.00	5.14	
						RPD = 0.08	
29 Endrin ketone							
1	11.327	11.323	0.004	6099072	5.00	4.99	
2	12.766	12.766	0.000	6269807	5.00	5.11	
						RPD = 2.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.933	12.930	0.003	4736085	5.00	5.06	
2	14.484	14.484	0.000	5140740	5.00	5.05	
						RPD = 0.15	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

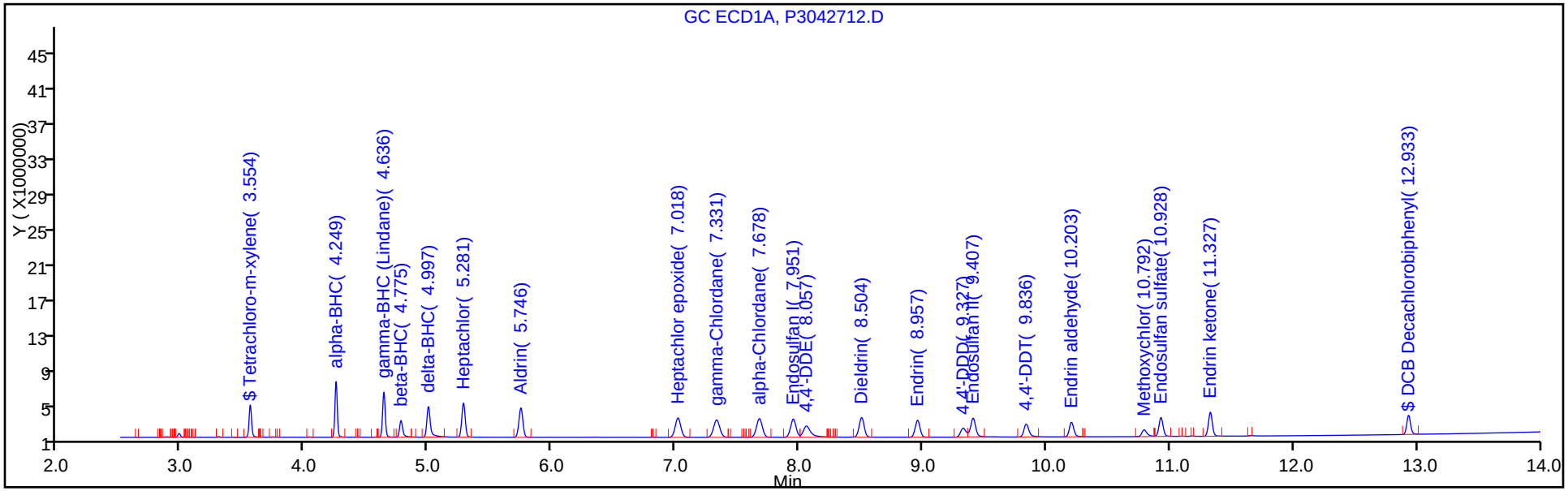
Report Date: 28-Apr-2015 08:11:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

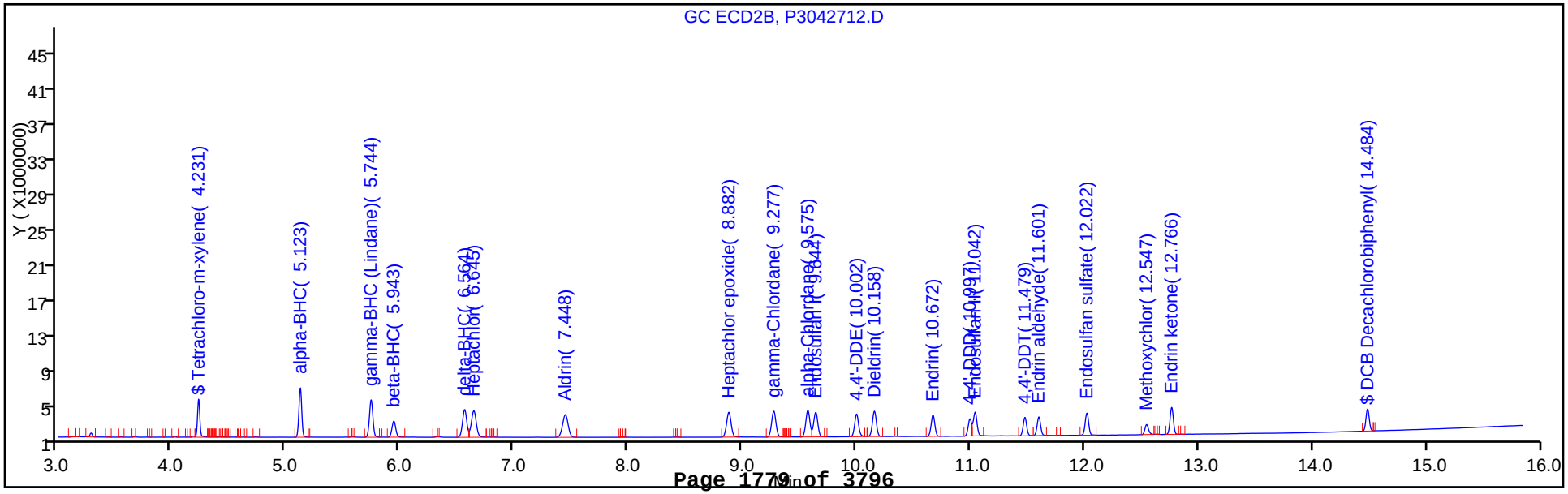
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042712.D

Injection Date:	27-Apr-2015 15:04:41	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/17

Matrix: Water Lab File ID: P3042717.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 17:03

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	173		2.0	83	16

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 17:03:26 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-017
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:43:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.550				ND	
2		4.231					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1		4.246				ND	
2		5.123					
5 gamma-BHC (Lindane)							
1		4.633				ND	
2		5.744					
6 beta-BHC							
1		4.770				ND	
2		5.942					
7 delta-BHC							
1		4.992				ND	
2		6.564					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					
21 Endosulfan II							
1		9.402				ND	
2		11.041					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.610	9.608	0.002	7102700	200.0	187.7	M
1	10.073	10.072	0.001	7021591	200.0	191.6	M
1	10.385	10.384	0.001	3988992	200.0	170.8	M
1	10.728	10.723	0.005	6081824	200.0	183.3	M
1	10.835	10.833	0.002	4245435	200.0	131.3	M
		Average of Peak Amounts =				173.0	
2	11.018	11.019	-0.001	7338828	200.0	141.6	M
2	11.187	11.186	0.001	8501161	200.0	166.8	M
2	11.612	11.611	0.001	5445459	200.0	152.8	M
2	12.348	12.346	0.002	5983131	200.0	131.1	M
2	12.436	12.436	0.000	2023767	200.0	130.0	M
		Average of Peak Amounts =				144.5	
						RPD = 17.95	
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.785				ND	
2		12.546					
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1		12.930				ND	
2		14.484					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

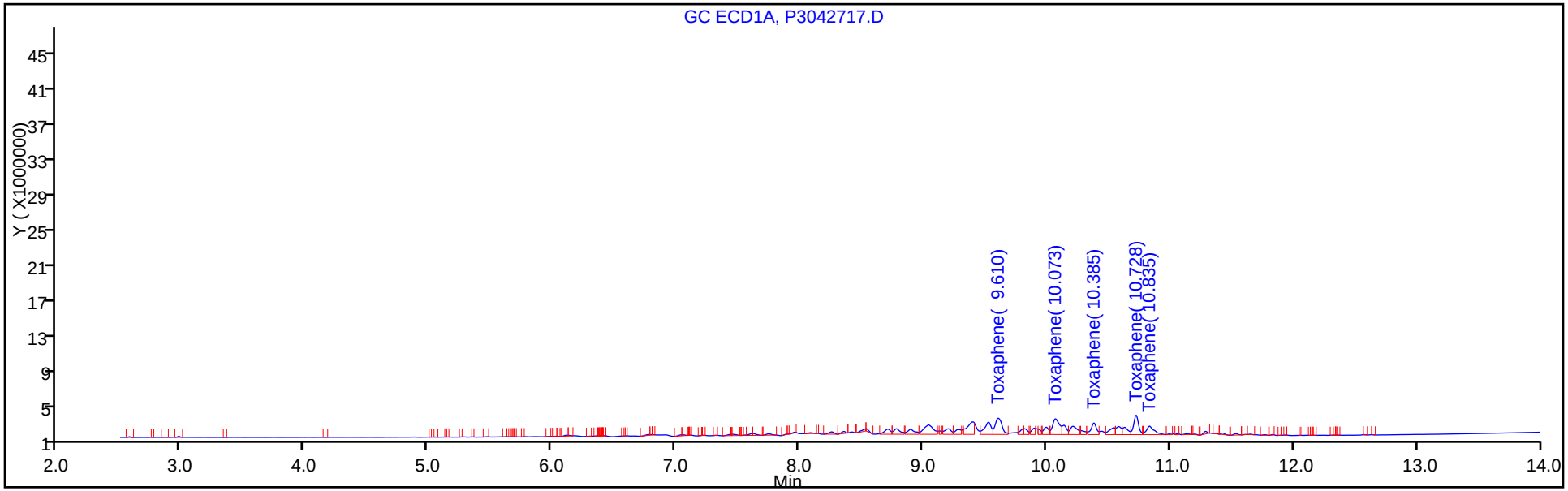
Report Date: 28-Apr-2015 08:11:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

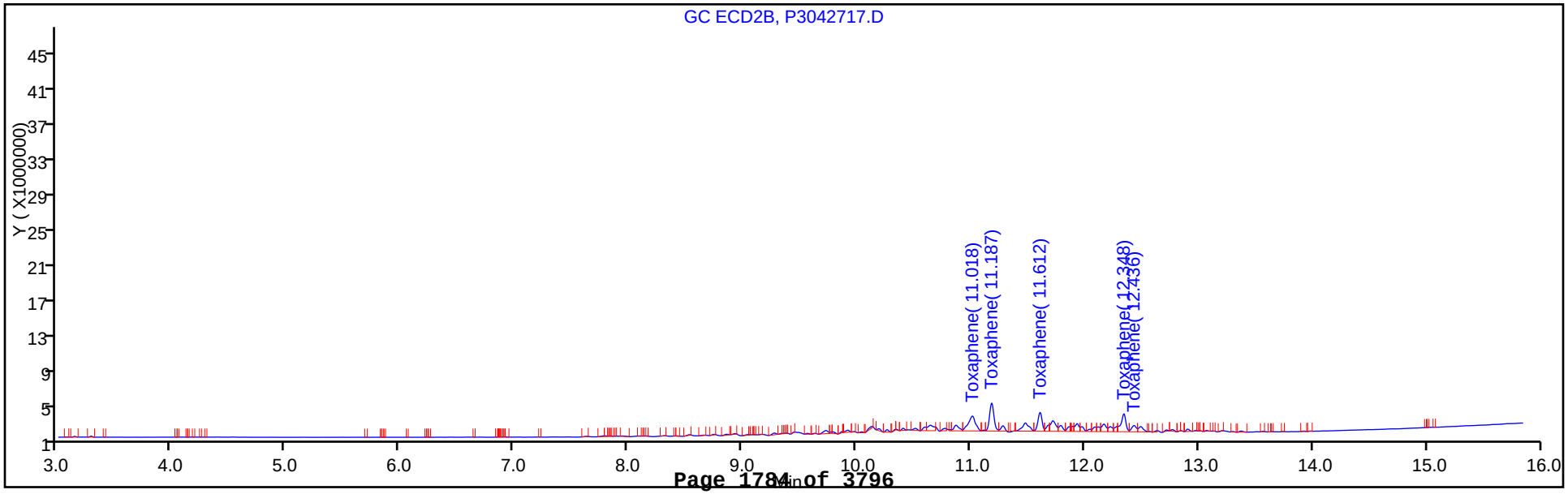
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D

Injection Date:	27-Apr-2015 17:03:26	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D

Injection Date: 27-Apr-2015 17:03:26 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

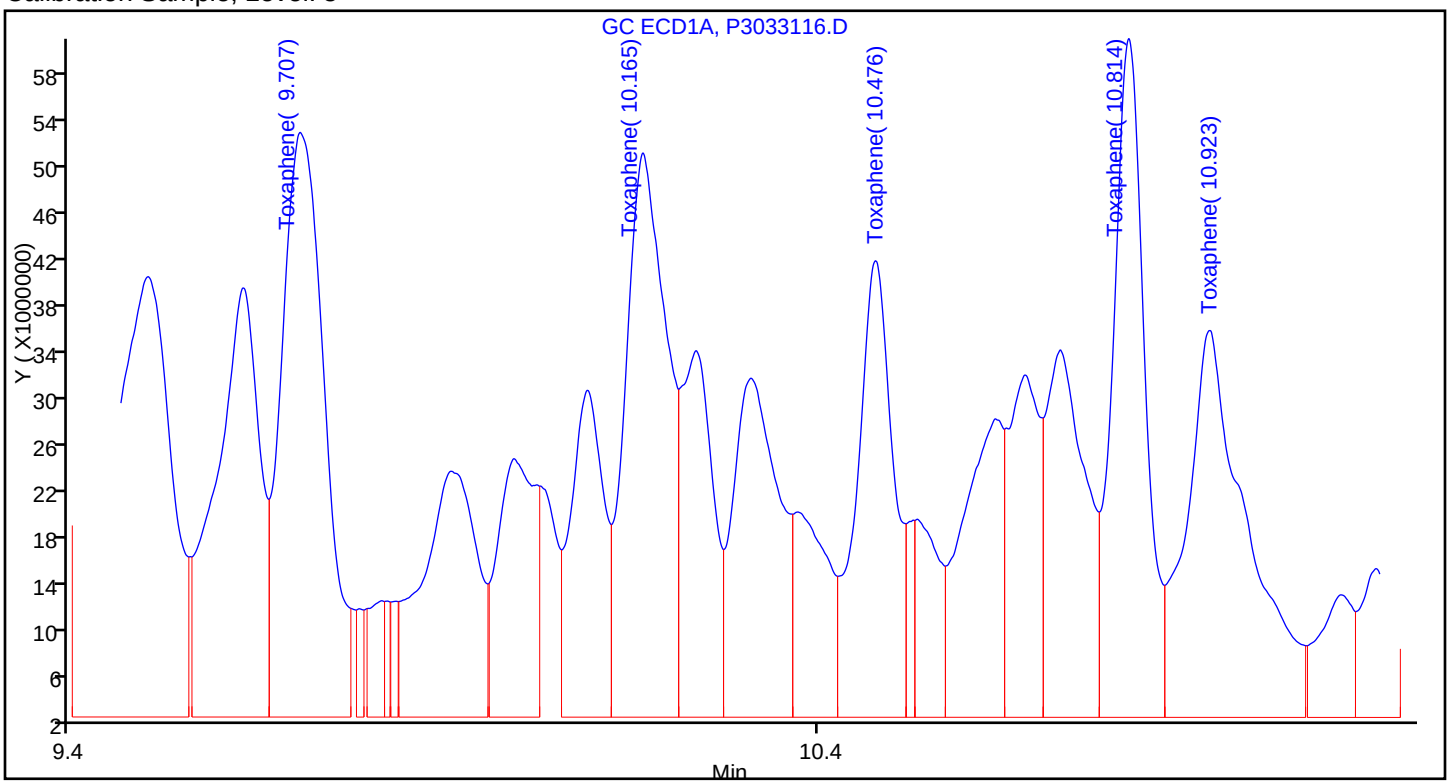
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

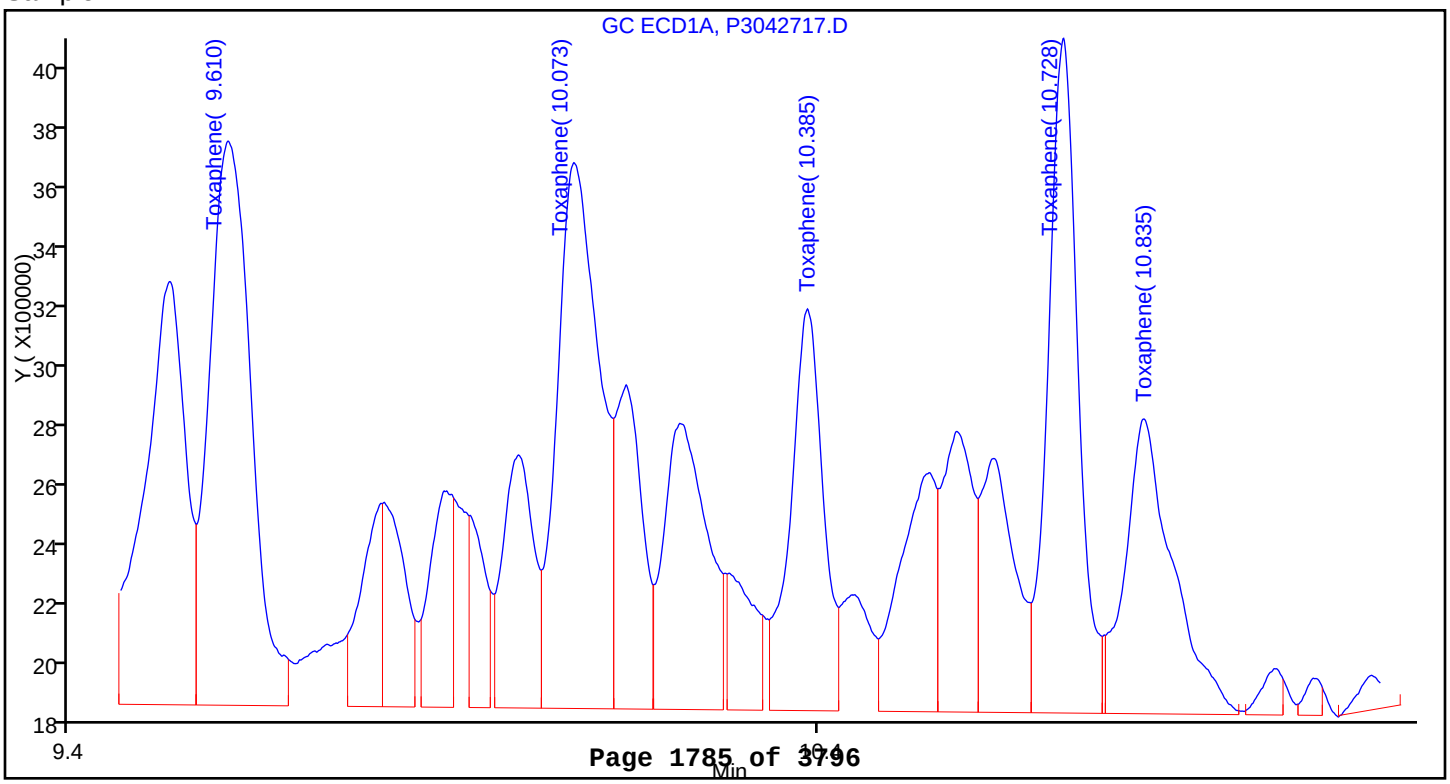
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 28-Apr-2015 08:11:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D

Injection Date: 27-Apr-2015 17:03:26 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

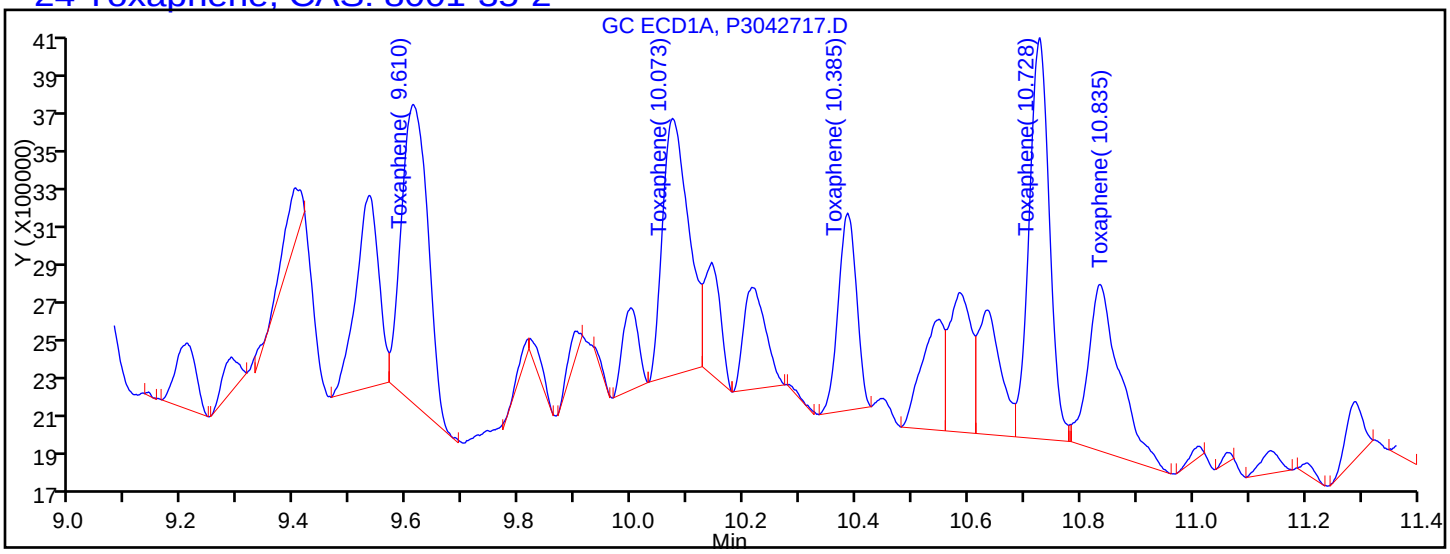
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

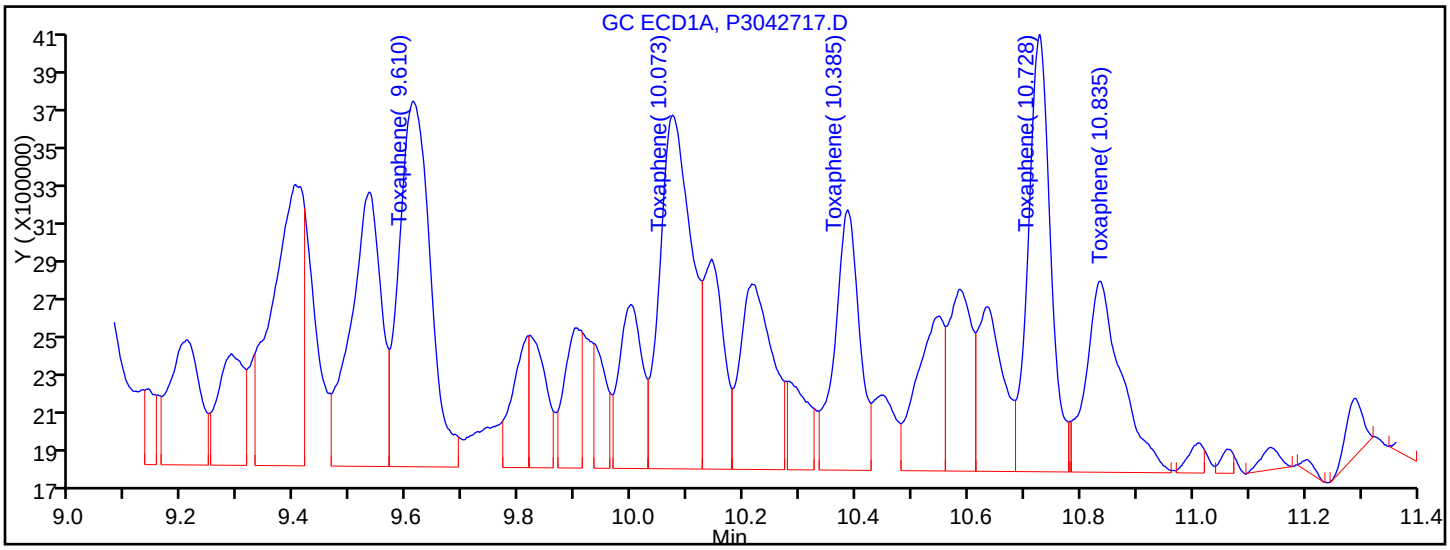
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.610	Response = 4965987	M
RT = 10.073	Response = 4183724	M
RT = 10.385	Response = 2241466	M
RT = 10.728	Response = 5054693	M
RT = 10.835	Response = 3285817	M



Manual Integration Results

RT = 9.610	Response = 7102700	M
RT = 10.073	Response = 7021591	M
RT = 10.385	Response = 3988992	M
RT = 10.728	Response = 6081824	M
RT = 10.835	Response = 4245435	M

Reviewer: matthewsb, 28-Apr-2015 07:43:52

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/17

Matrix: Water Lab File ID: P3042717.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 17:03

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*144*		*2.0*	83	*16*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 17:03:26 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-017
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:43:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550					ND	
2	4.231						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.246					ND	
2	5.123						
5 gamma-BHC (Lindane)							
1	4.633					ND	
2	5.744						
6 beta-BHC							
1	4.770					ND	
2	5.942						
7 delta-BHC							
1	4.992					ND	
2	6.564						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					
21 Endosulfan II							
1		9.402				ND	
2		11.041					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.610	9.608	0.002	7102700	200.0	187.7	M
1	10.073	10.072	0.001	7021591	200.0	191.6	M
1	10.385	10.384	0.001	3988992	200.0	170.8	M
1	10.728	10.723	0.005	6081824	200.0	183.3	M
1	10.835	10.833	0.002	4245435	200.0	131.3	M
		Average of Peak Amounts =				173.0	
2	11.018	11.019	-0.001	7338828	200.0	141.6	M
2	11.187	11.186	0.001	8501161	200.0	166.8	M
2	11.612	11.611	0.001	5445459	200.0	152.8	M
2	12.348	12.346	0.002	5983131	200.0	131.1	M
2	12.436	12.436	0.000	2023767	200.0	130.0	M
		Average of Peak Amounts =				144.5	
						RPD = 17.95	
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.785				ND	
2		12.546					
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1		12.930				ND	
2		14.484					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

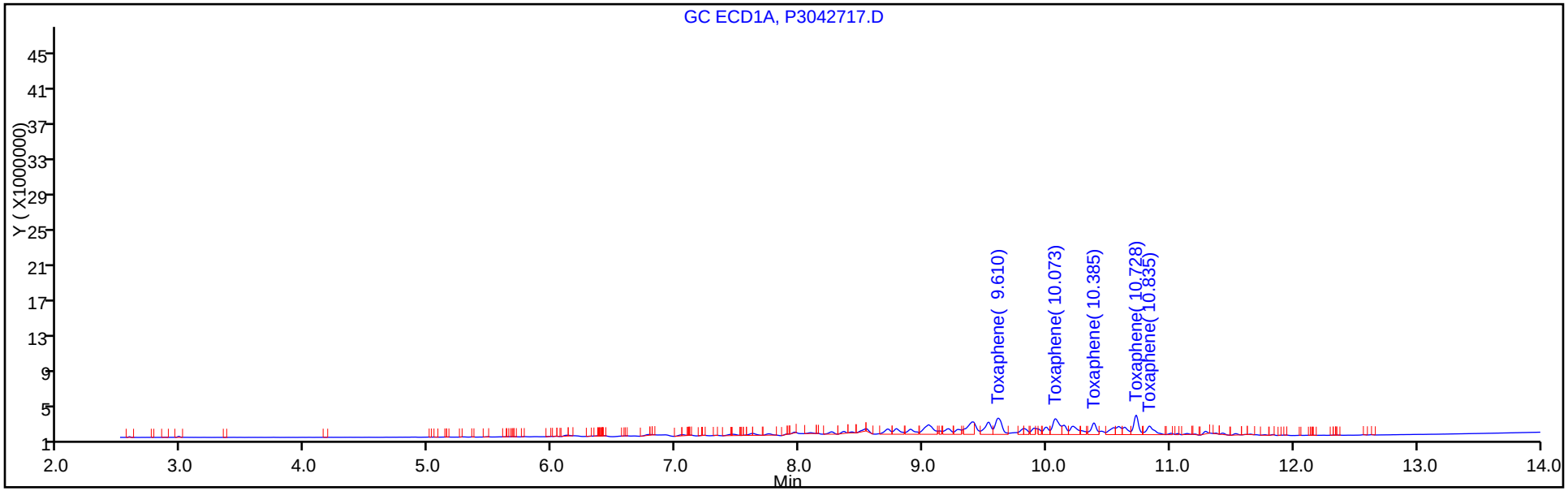
Report Date: 28-Apr-2015 08:11:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

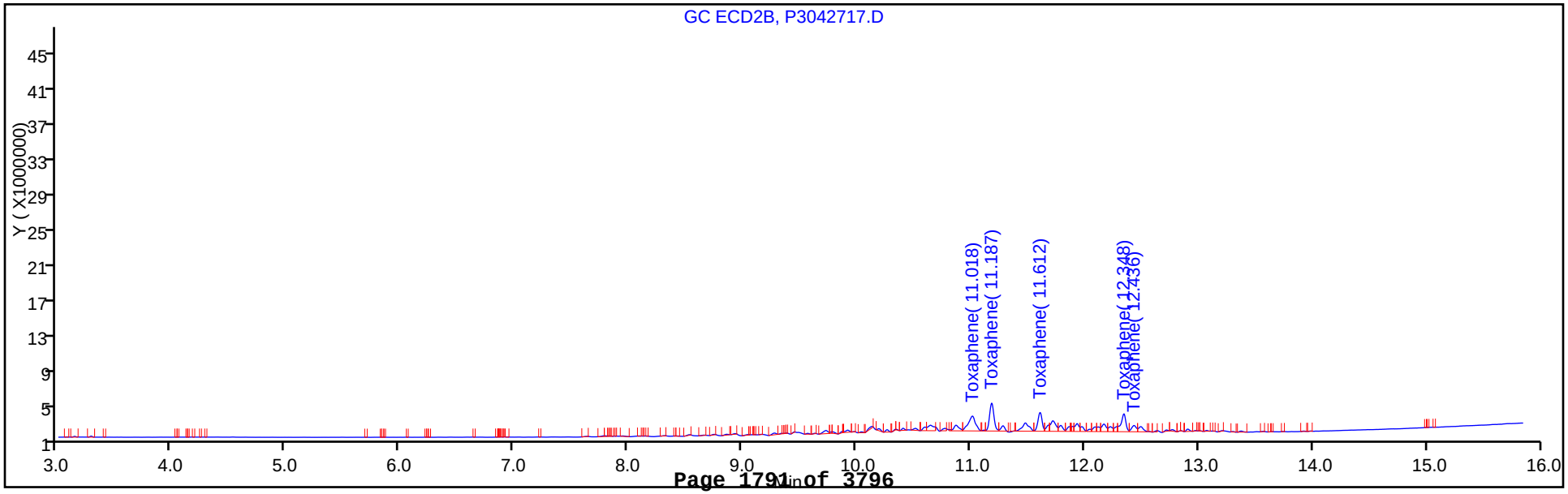
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D

Injection Date:	27-Apr-2015 17:03:26	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D

Injection Date: 27-Apr-2015 17:03:26 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

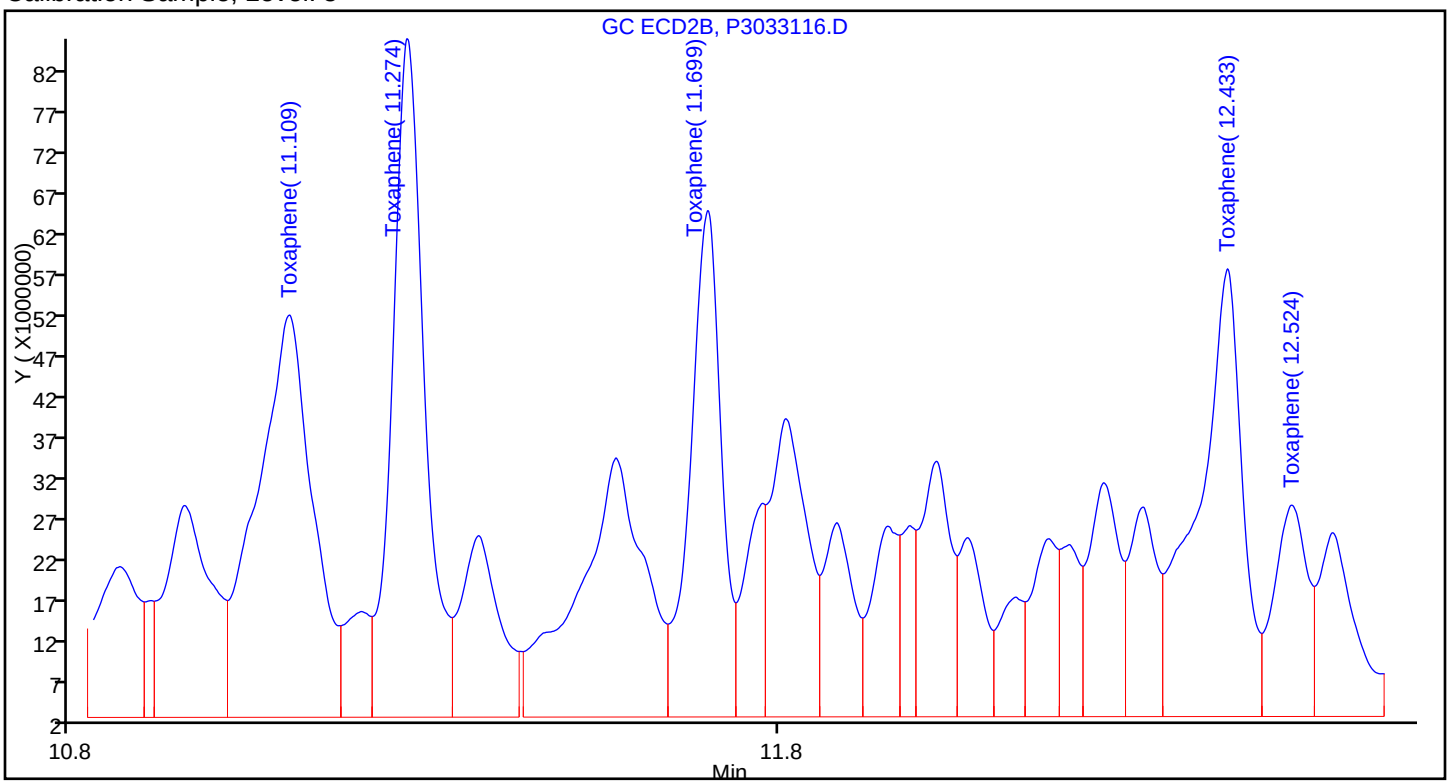
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

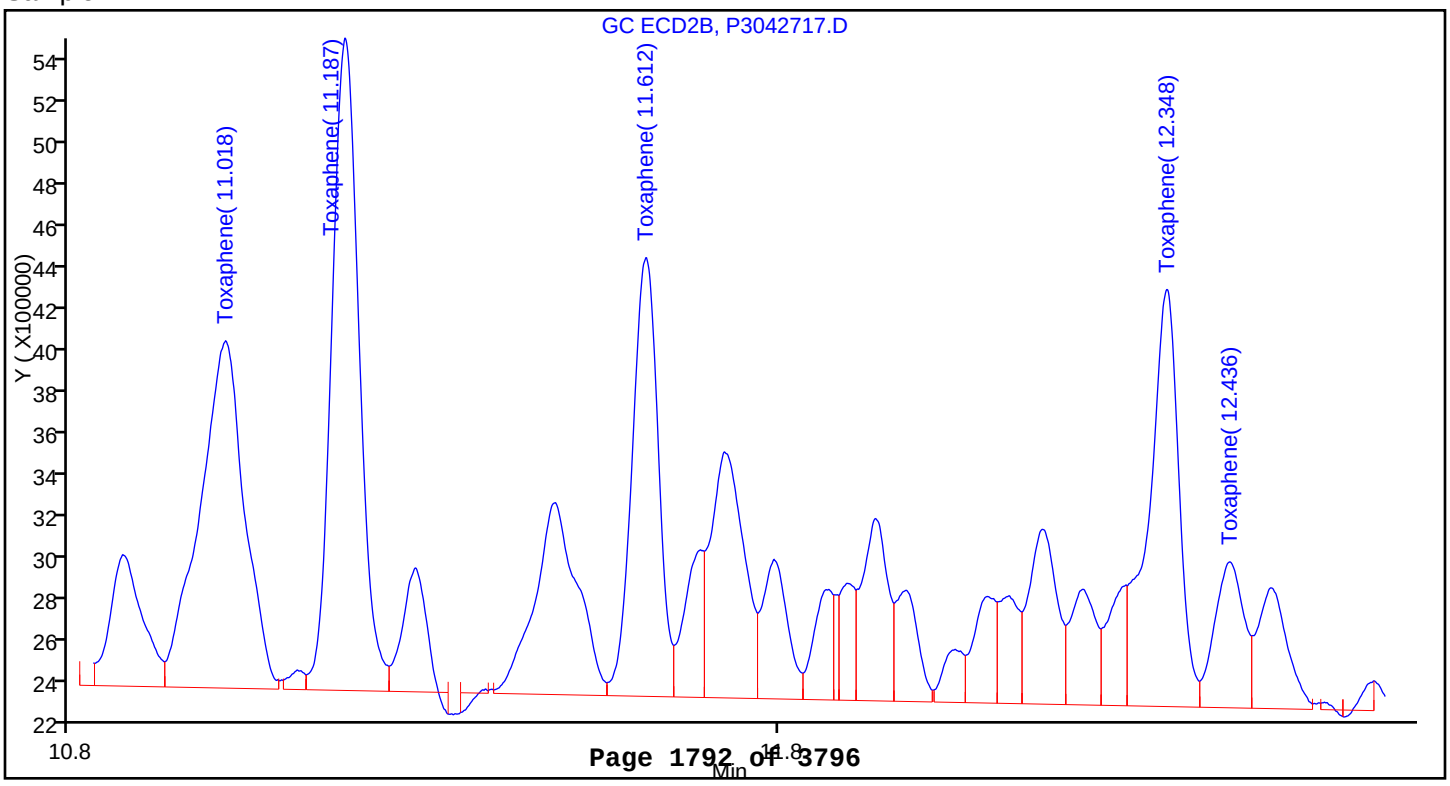
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 28-Apr-2015 08:11:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042717.D

Injection Date: 27-Apr-2015 17:03:26 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

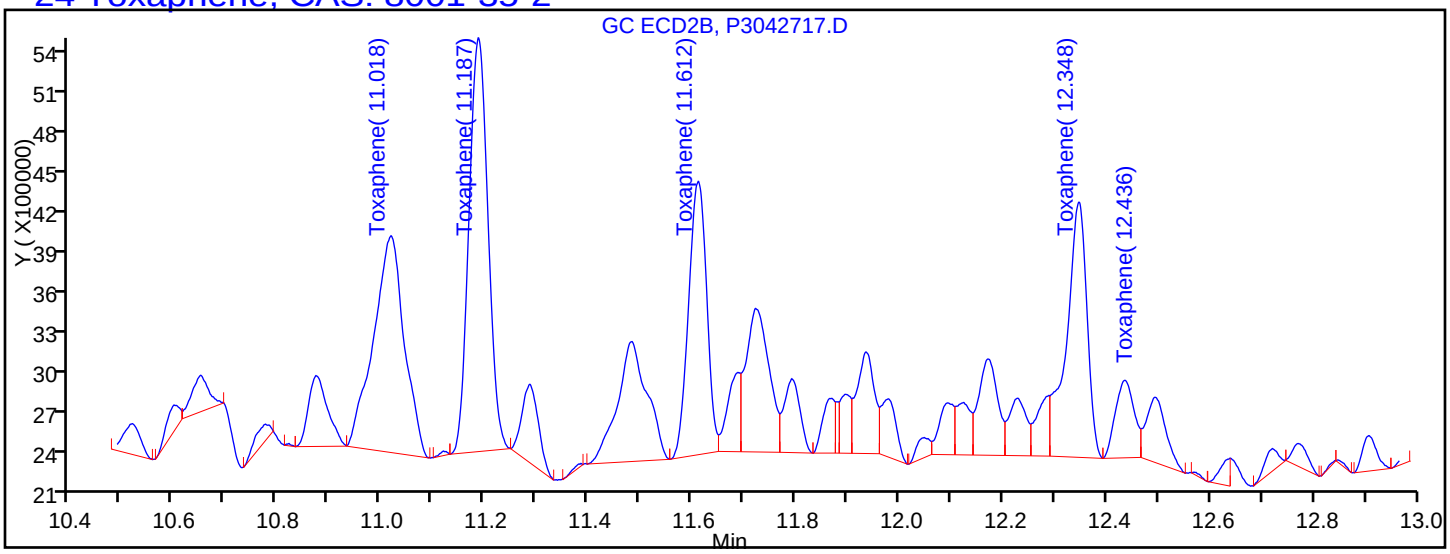
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

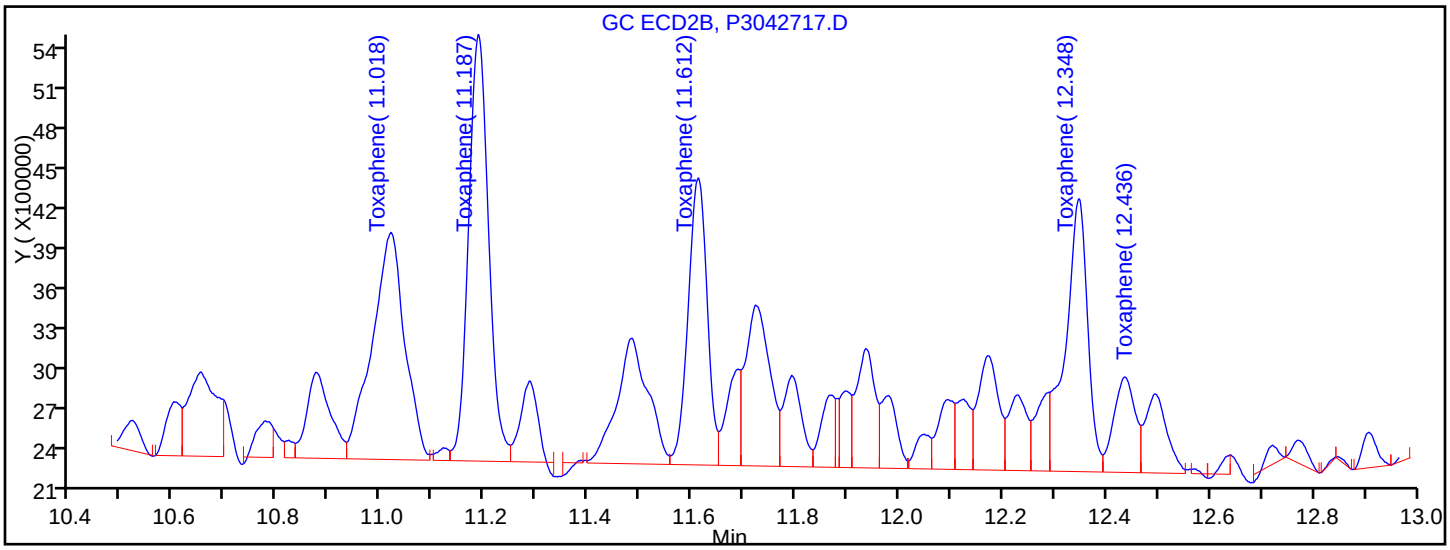
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.018	Response = 6579349	M
RT = 11.187	Response = 7830036	M
RT = 11.612	Response = 4912760	M
RT = 12.348	Response = 5184219	M
RT = 12.436	Response = 1447186	M



Manual Integration Results

RT = 11.018	Response = 7338828	M
RT = 11.187	Response = 8501161	M
RT = 11.612	Response = 5445459	M
RT = 12.348	Response = 5983131	M
RT = 12.436	Response = 2023767	M

Reviewer: matthewsb, 28-Apr-2015 07:43:52

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/18

Matrix: Water Lab File ID: P3042718.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 17:27

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	22.8		0.50	6.7	2.8

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042718.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 17:27:46 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-018
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:44:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.550				ND	
2		4.231					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1		4.246				ND	
2		5.123					
5 gamma-BHC (Lindane)							
1		4.633				ND	
2		5.744					
6 beta-BHC							
1		4.770				ND	
2		5.942					
7 delta-BHC							
1		4.992				ND	
2		6.564					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.163	5.161	0.002	977814	20.0	22.9	
1	6.050	6.047	0.003	1240061	20.0	25.1	
1	7.330	7.325	0.005	3677968	20.0	22.0	
1	7.670	7.669	0.001	5524192	20.0	21.2	
		Average of Peak Amounts =				22.8	
2	6.319	6.319	0.000	1131781	20.0	23.1	
2	7.942	7.942	0.000	1431288	20.0	24.7	
2	9.275	9.276	-0.001	3769161	20.0	21.3	
2	9.576	9.574	0.002	3352653	20.0	21.2	
		Average of Peak Amounts =				22.6	
						RPD = 1.07	
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1	9.402					ND	
2	11.041						
22 Chlorobenzilate							
1	9.427					ND	
2	10.829						
24 Toxaphene							
1	9.608					ND	
1	10.072						
1	10.384						
1	10.723						
1	10.833						
2	11.019						
2	11.186						
2	11.611						
2	12.346						
2	12.436						
23 4,4'-DDT							
1	9.831					ND	
2	11.479						
25 Endrin aldehyde							
1	10.199					ND	
2	11.600						
26 Mirex							
1	10.663					ND	
2	12.669						
27 Methoxychlor							
1	10.785					ND	
2	12.546						
28 Endosulfan sulfate							
1	10.924					ND	
2	12.023						
29 Endrin ketone							
1	11.323					ND	
2	12.766						
$ 30 DCB Decachlorobiphenyl							
1	12.930					ND	
2	14.484						

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

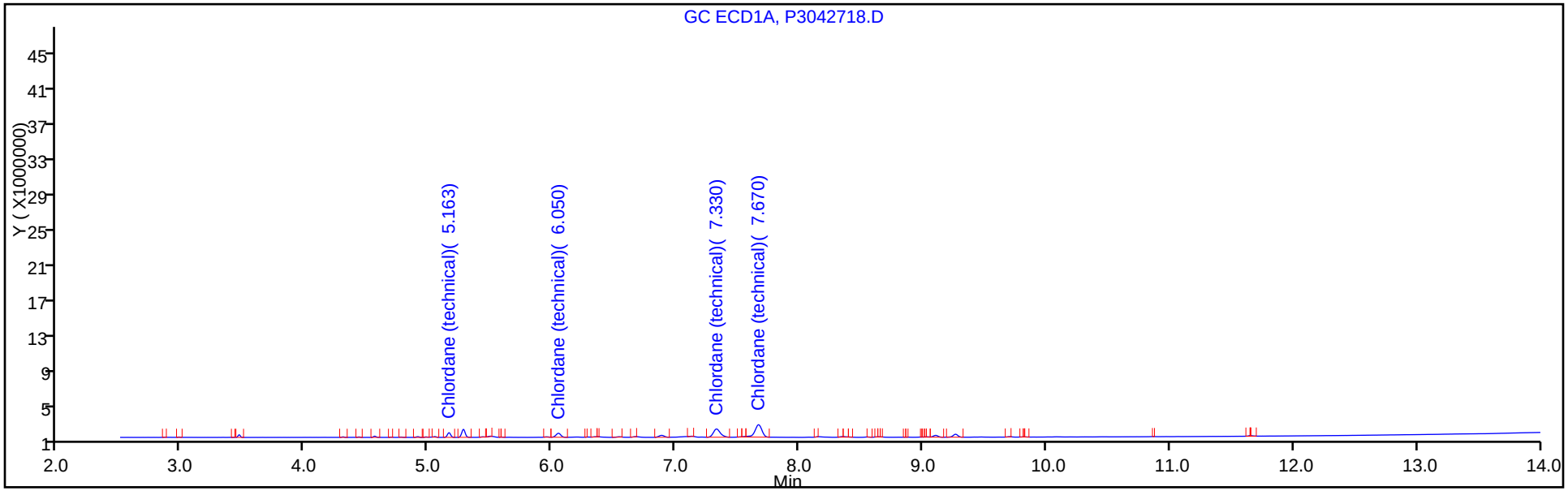
Report Date: 28-Apr-2015 08:11:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

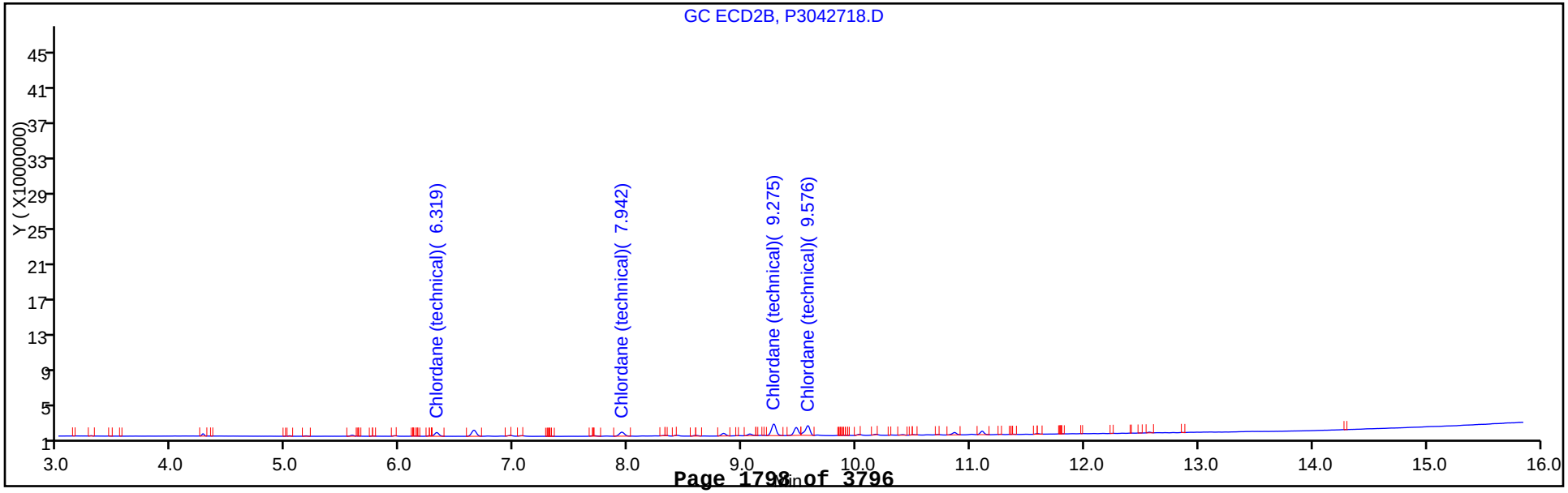
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042718.D

Injection Date:	27-Apr-2015 17:27:46	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

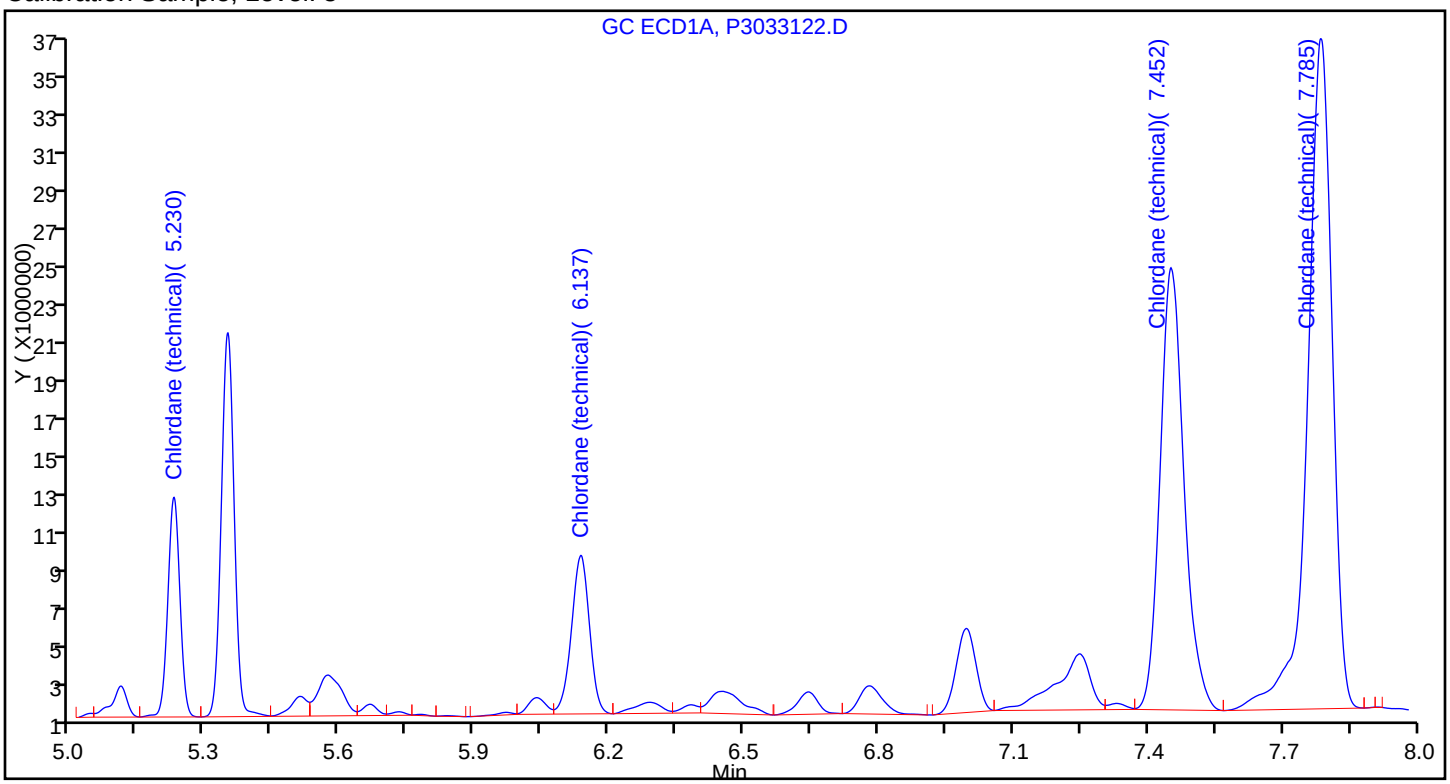
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042718.D

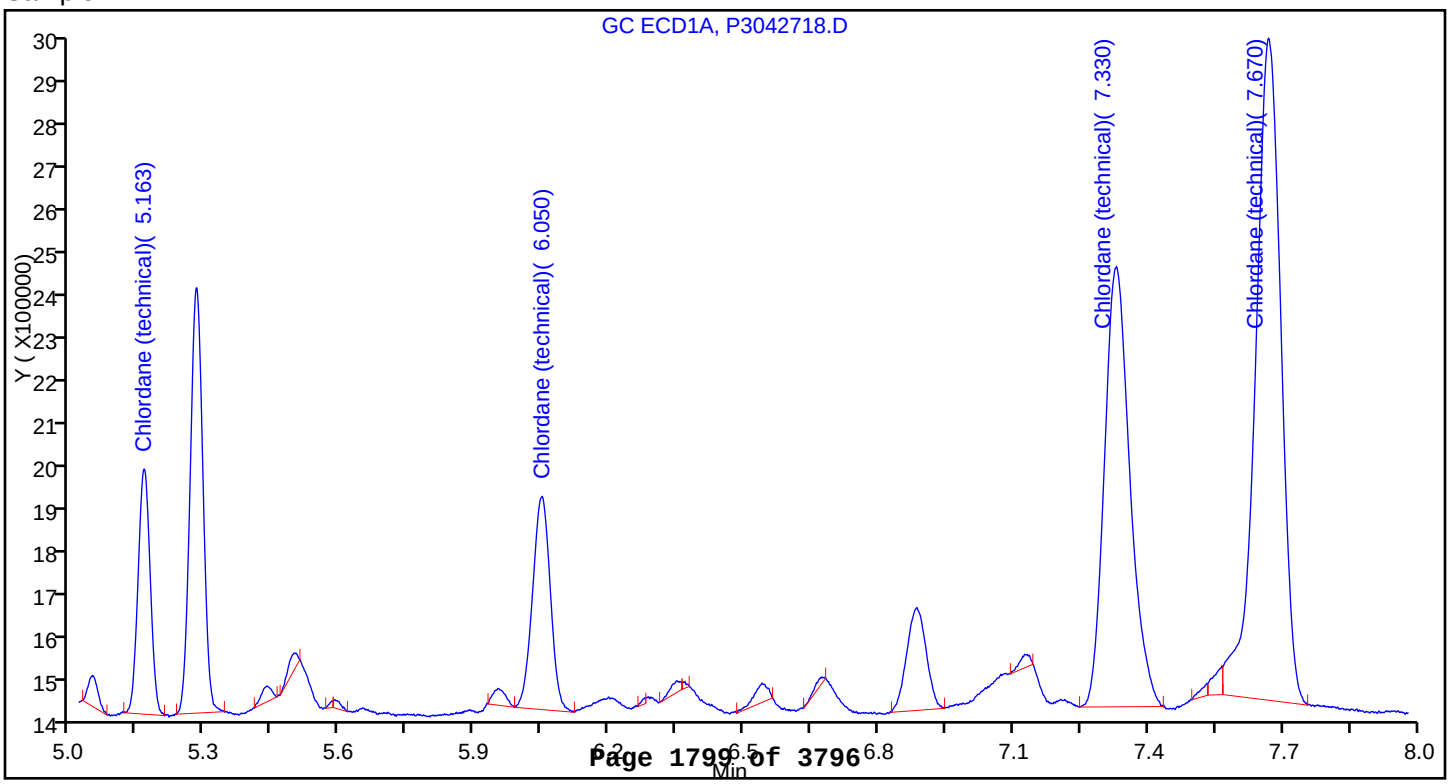
Injection Date:	27-Apr-2015 17:27:46	Instrument ID:	A2HP3		
Lims ID:	MRL TC				
Client ID:					
Operator ID:	430893	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ECD1A		

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-178086/18

Matrix: Water Lab File ID: P3042718.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/27/2015 17:27

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	*Chlordane (technical)*	*22.6*		*0.50*	6.7	*2.8*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042718.D
Lims ID: MRL TC
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 17:27:46 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-018
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:44:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550					ND	
2	4.231						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.246					ND	
2	5.123						
5 gamma-BHC (Lindane)							
1	4.633					ND	
2	5.744						
6 beta-BHC							
1	4.770					ND	
2	5.942						
7 delta-BHC							
1	4.992					ND	
2	6.564						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1	5.163	5.161	0.002	977814	20.0	22.9	
1	6.050	6.047	0.003	1240061	20.0	25.1	
1	7.330	7.325	0.005	3677968	20.0	22.0	
1	7.670	7.669	0.001	5524192	20.0	21.2	
		Average of Peak Amounts =				22.8	
2	6.319	6.319	0.000	1131781	20.0	23.1	
2	7.942	7.942	0.000	1431288	20.0	24.7	
2	9.275	9.276	-0.001	3769161	20.0	21.3	
2	9.576	9.574	0.002	3352653	20.0	21.2	
		Average of Peak Amounts =				22.6	
						RPD = 1.07	
9 Heptachlor							
1		5.276				ND	
2		6.645					
10 Aldrin							
1		5.740				ND	
2		7.448					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.013				ND	
2		8.882					
13 gamma-Chlordane							
1		7.324				ND	
2		9.276					
14 alpha-Chlordane							
1		7.671				ND	
2		9.575					
15 Endosulfan I							
1		7.944				ND	
2		9.645					
16 4,4'-DDE							
1		8.047				ND	
2		10.002					
17 Dieldrin							
1		8.501				ND	
2		10.158					
18 Endrin							
1		8.955				ND	
2		10.672					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.318				ND	
2		10.995					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
21 Endosulfan II							
1		9.402				ND	
2		11.041					
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1		9.831				ND	
2		11.479					
25 Endrin aldehyde							
1		10.199				ND	
2		11.600					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.785				ND	
2		12.546					
28 Endosulfan sulfate							
1		10.924				ND	
2		12.023					
29 Endrin ketone							
1		11.323				ND	
2		12.766					
$ 30 DCB Decachlorobiphenyl							
1		12.930				ND	
2		14.484					

Reagents:

SGPESTTCST_00016 Amount Added: 20.00 Units: uL

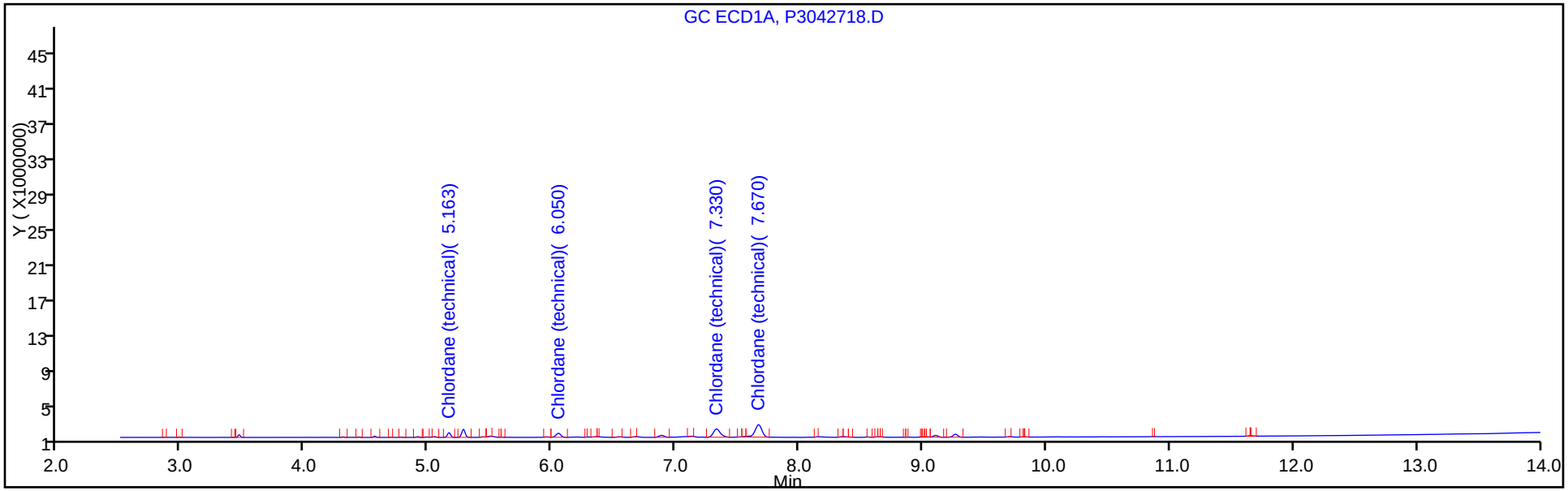
Report Date: 28-Apr-2015 08:11:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

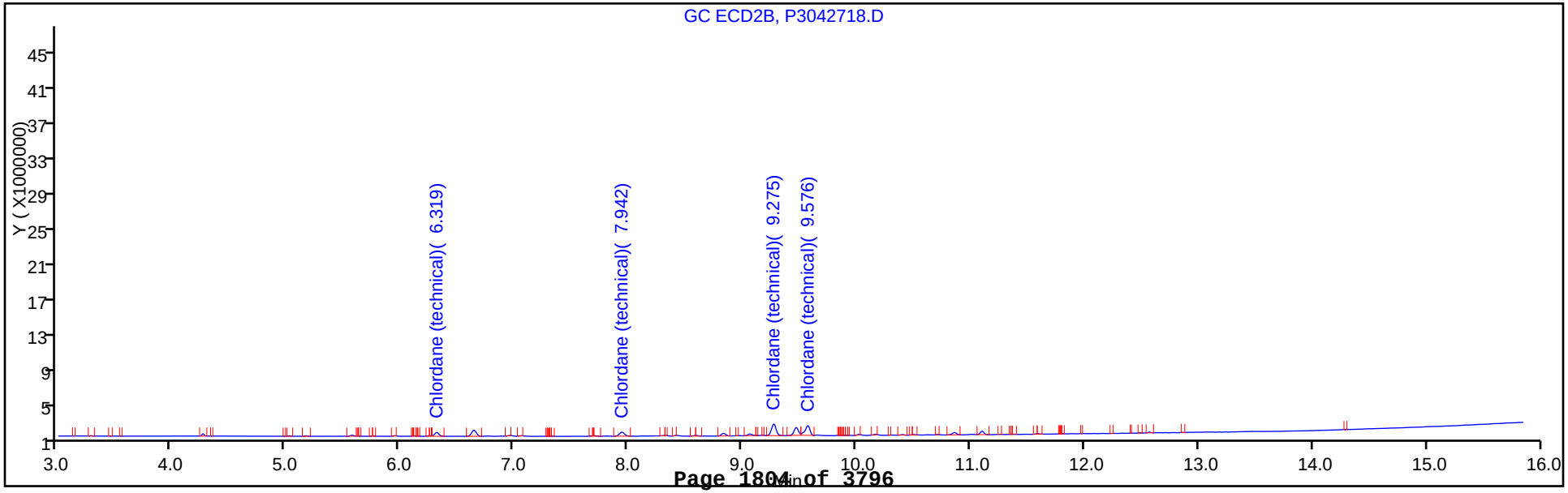
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042718.D

Injection Date:	27-Apr-2015 17:27:46	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TC			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Apr-2015 08:11:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042718.D

Injection Date: 27-Apr-2015 17:27:46 Instrument ID: A2HP3

Lims ID: MRL TC

Client ID:

Operator ID: 430893 ALS Bottle#: 18 Worklist Smp#: 18

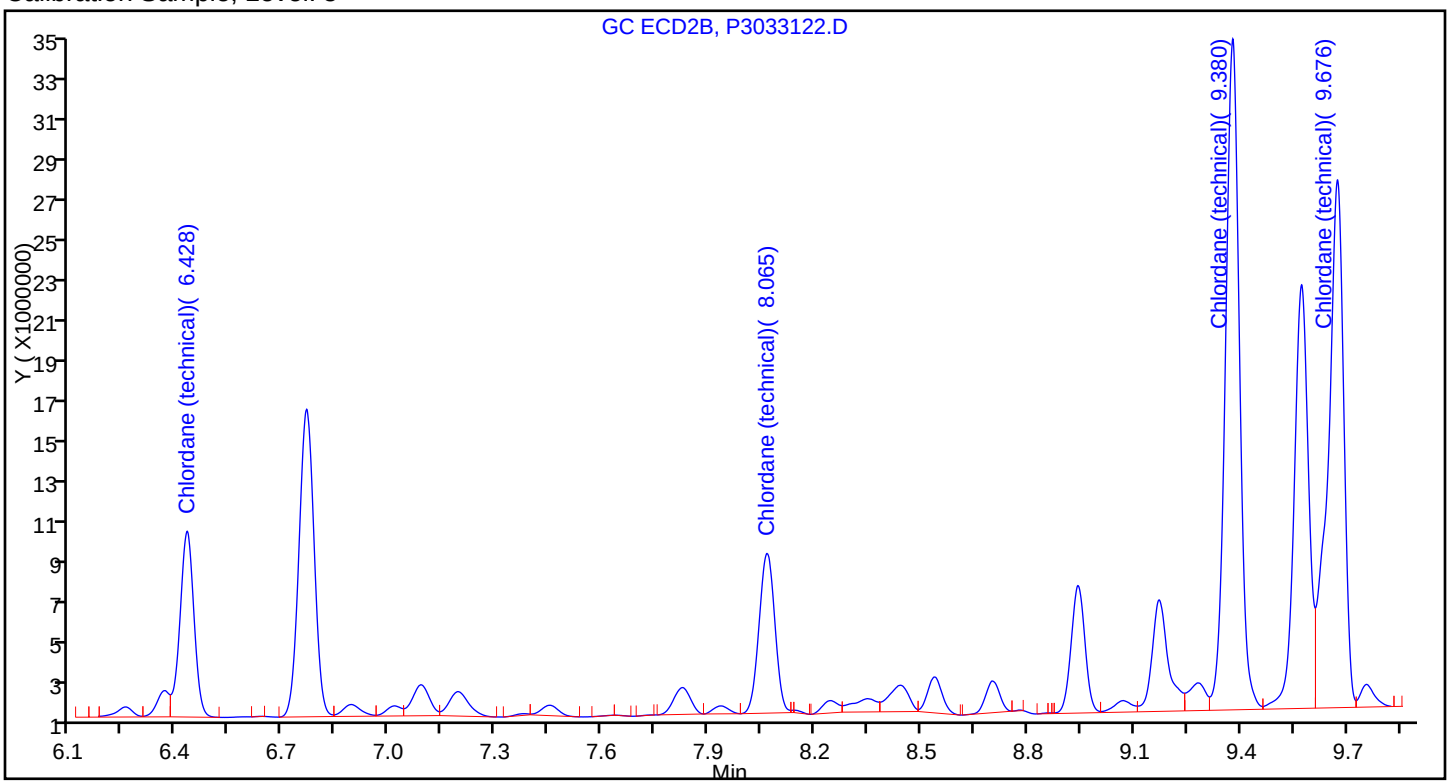
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

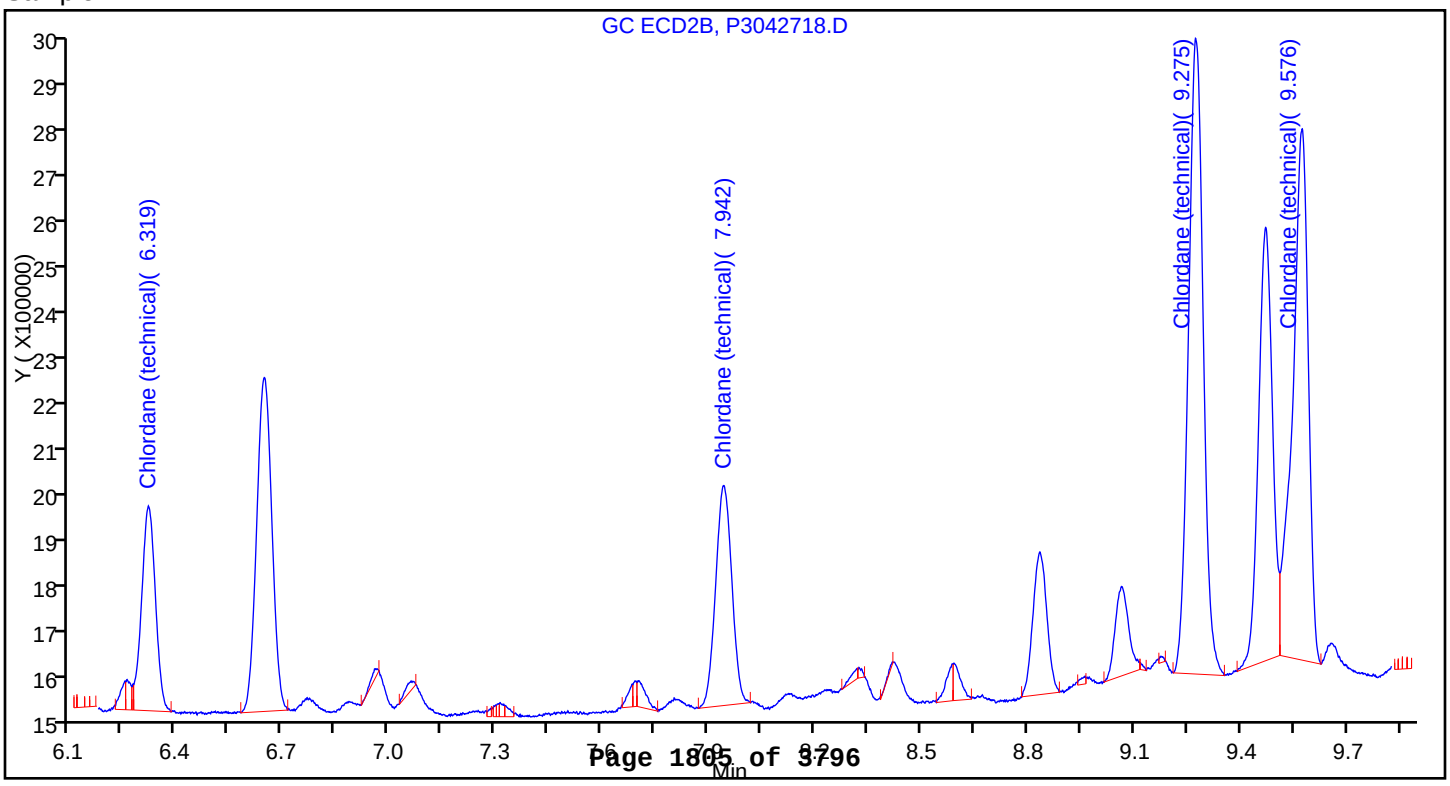
Column: Detector GC ecd2b

8 Chlordane (technical), CAS: 57-74-9

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-178086/19

Matrix: Water | Lab File ID: P3042719.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/27/2015 17:51

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	Endrin	5.60		0.050	4.2	1.0
58-89-9	gamma-BHC (Lindane)	4.98		0.050	4.2	1.0
76-44-8	Heptachlor	5.61		0.050	4.2	0.42
1024-57-3	Heptachlor epoxide	5.64		0.050	4.2	1.2
72-43-5	Methoxychlor	6.15		0.10	4.2	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	119		50-150
877-09-8	Tetrachloro-m-xylene	112		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042719.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 17:51:07 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-019
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.550	0.001	5524658	5.00	5.62	
2	4.231	4.231	0.000	6494801	5.00	5.76	
						RPD = 2.56	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.246	4.246	0.000	8361555	5.00	4.83	
2	5.124	5.123	0.001	9355686	5.00	4.78	
						RPD = 1.02	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	7680229	5.00	4.98	
2	5.746	5.744	0.002	8694331	5.00	4.91	
						RPD = 1.25	
6 beta-BHC							
1	4.771	4.770	0.001	3643939	5.00	5.79	
2	5.944	5.942	0.002	4456380	5.00	5.80	
						RPD = 0.25	
7 delta-BHC							
1	4.993	4.992	0.001	5107648	5.00	3.40	
2	6.565	6.564	0.001	6210520	5.00	3.50	
						RPD = 2.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1	5.277	5.276	0.001	8190022	5.00	5.61	
2	6.646	6.645	0.001	9544435	5.00	5.65	
						RPD = 0.59	
10 Aldrin							
1	5.741	5.740	0.001	7721483	5.00	5.28	
2	7.449	7.448	0.001	8849911	5.00	5.29	
						RPD = 0.20	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.012	7.013	-0.001	7348632	5.00	5.64	
2	8.883	8.882	0.001	8041728	5.00	5.60	
						RPD = 0.60	
13 gamma-Chlordane							
1	7.324	7.324	0.000	7193444	5.00	5.33	
2	9.277	9.276	0.001	8007046	5.00	5.44	
						RPD = 2.17	
14 alpha-Chlordane							
1	7.672	7.671	0.001	7259867	5.00	5.43	
2	9.576	9.575	0.001	7648674	5.00	5.38	
						RPD = 0.79	
15 Endosulfan I							
1	7.948	7.944	0.004	6878765	5.00	5.60	
2	9.646	9.645	0.001	7332027	5.00	5.55	
						RPD = 1.00	
16 4,4'-DDE							
1	8.048	8.047	0.001	6342738	5.00	5.35	
2	10.004	10.002	0.002	7101457	5.00	5.38	
						RPD = 0.45	
17 Dieldrin							
1	8.501	8.501	0.000	6922348	5.00	5.29	
2	10.160	10.158	0.002	7318841	5.00	5.35	
						RPD = 1.05	
18 Endrin							
1	8.953	8.955	-0.002	6450659	5.00	5.60	
2	10.674	10.672	0.002	6594140	5.00	5.47	
						RPD = 2.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.316	9.318	-0.002	4124926	5.00	4.74	
2	10.996	10.995	0.001	4753180	5.00	4.86	
						RPD = 2.46	
21 Endosulfan II							
1	9.402	9.402	0.000	6450342	5.00	5.58	
2	11.043	11.041	0.002	6528929	5.00	5.58	
						RPD = 0.13	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1	9.831	9.831	0.000	4568680	5.00	4.78	
2	11.479	11.479	0.000	4641745	5.00	4.65	
						RPD = 2.80	
25 Endrin aldehyde							
1	10.201	10.199	0.002	4225378	5.00	4.74	
2	11.602	11.600	0.002	4182927	5.00	4.48	
						RPD = 5.72	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.787	10.785	0.002	2816927	5.00	6.15	
2	12.546	12.546	0.000	2821527	5.00	5.77	
						RPD = 6.37	
28 Endosulfan sulfate							
1	10.926	10.924	0.002	4704064	5.00	4.72	
2	12.023	12.023	0.000	4765017	5.00	4.50	
						RPD = 4.84	
29 Endrin ketone							
1	11.325	11.323	0.002	5091215	5.00	4.17	
2	12.767	12.766	0.001	5168648	5.00	4.21	
						RPD = 1.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.931	12.930	0.001	5593629	5.00	5.97	
2	14.485	14.484	0.001	5837367	5.00	5.73	
						RPD = 4.08	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

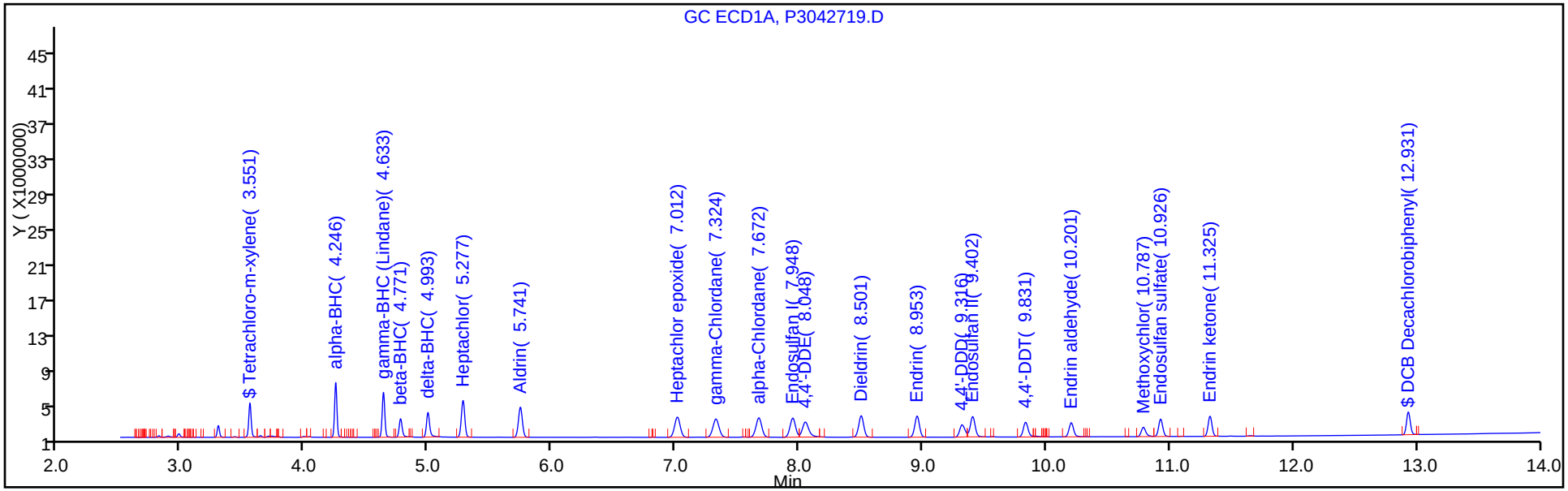
Report Date: 28-Apr-2015 08:11:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

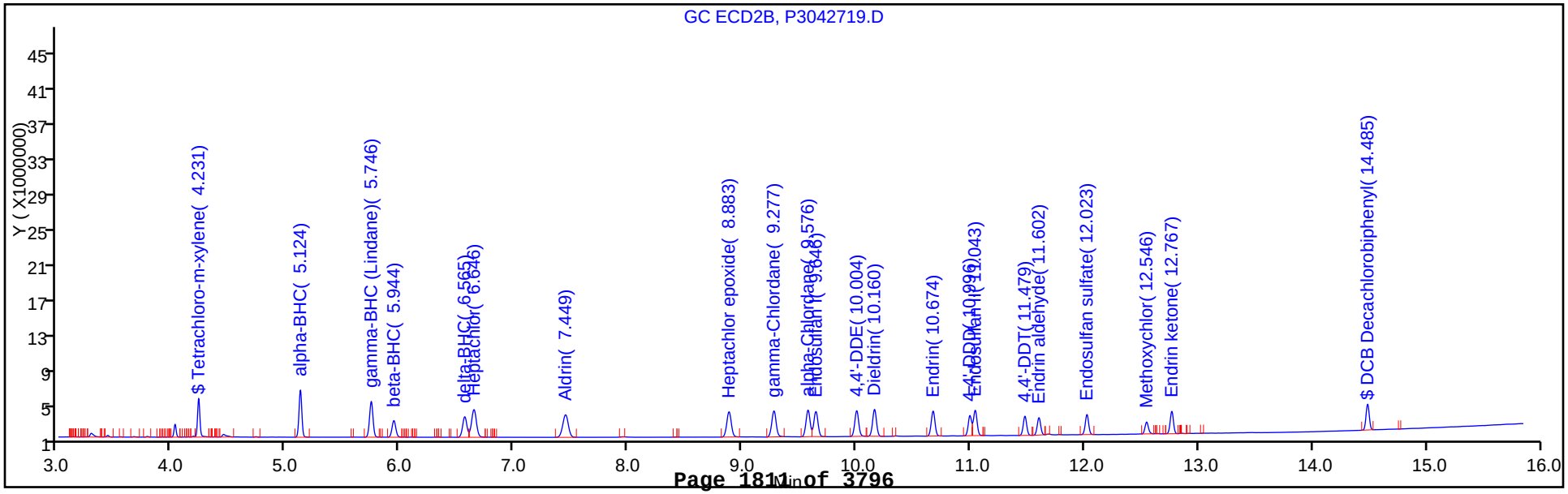
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042719.D

Injection Date:	27-Apr-2015 17:51:07	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-178086/19

Matrix: Water | Lab File ID: P3042719.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/27/2015 17:51

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-20-8	*Endrin*	*5.47*		*0.050*	4.2	*1.0*
58-89-9	*gamma-BHC (Lindane)*	*4.91*		*0.050*	4.2	*1.0*
76-44-8	*Heptachlor*	*5.65*		*0.050*	4.2	*0.42*
1024-57-3	*Heptachlor epoxide*	*5.60*		*0.050*	4.2	*1.2*
72-43-5	*Methoxychlor*	*5.77*		*0.10*	4.2	*1.0*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	115		50-150
877-09-8	Tetrachloro-m-xylene	115		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042719.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 27-Apr-2015 17:51:07 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042968-019
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.551	3.550	0.001	5524658	5.00	5.62	
2	4.231	4.231	0.000	6494801	5.00	5.76	
						RPD = 2.56	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.246	4.246	0.000	8361555	5.00	4.83	
2	5.124	5.123	0.001	9355686	5.00	4.78	
						RPD = 1.02	
5 gamma-BHC (Lindane)							
1	4.633	4.633	0.000	7680229	5.00	4.98	
2	5.746	5.744	0.002	8694331	5.00	4.91	
						RPD = 1.25	
6 beta-BHC							
1	4.771	4.770	0.001	3643939	5.00	5.79	
2	5.944	5.942	0.002	4456380	5.00	5.80	
						RPD = 0.25	
7 delta-BHC							
1	4.993	4.992	0.001	5107648	5.00	3.40	
2	6.565	6.564	0.001	6210520	5.00	3.50	
						RPD = 2.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1	5.277	5.276	0.001	8190022	5.00	5.61	
2	6.646	6.645	0.001	9544435	5.00	5.65	
						RPD = 0.59	
10 Aldrin							
1	5.741	5.740	0.001	7721483	5.00	5.28	
2	7.449	7.448	0.001	8849911	5.00	5.29	
						RPD = 0.20	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.012	7.013	-0.001	7348632	5.00	5.64	
2	8.883	8.882	0.001	8041728	5.00	5.60	
						RPD = 0.60	
13 gamma-Chlordane							
1	7.324	7.324	0.000	7193444	5.00	5.33	
2	9.277	9.276	0.001	8007046	5.00	5.44	
						RPD = 2.17	
14 alpha-Chlordane							
1	7.672	7.671	0.001	7259867	5.00	5.43	
2	9.576	9.575	0.001	7648674	5.00	5.38	
						RPD = 0.79	
15 Endosulfan I							
1	7.948	7.944	0.004	6878765	5.00	5.60	
2	9.646	9.645	0.001	7332027	5.00	5.55	
						RPD = 1.00	
16 4,4'-DDE							
1	8.048	8.047	0.001	6342738	5.00	5.35	
2	10.004	10.002	0.002	7101457	5.00	5.38	
						RPD = 0.45	
17 Dieldrin							
1	8.501	8.501	0.000	6922348	5.00	5.29	
2	10.160	10.158	0.002	7318841	5.00	5.35	
						RPD = 1.05	
18 Endrin							
1	8.953	8.955	-0.002	6450659	5.00	5.60	
2	10.674	10.672	0.002	6594140	5.00	5.47	
						RPD = 2.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.316	9.318	-0.002	4124926	5.00	4.74	
2	10.996	10.995	0.001	4753180	5.00	4.86	
						RPD = 2.46	
21 Endosulfan II							
1	9.402	9.402	0.000	6450342	5.00	5.58	
2	11.043	11.041	0.002	6528929	5.00	5.58	
						RPD = 0.13	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
23 4,4'-DDT							
1	9.831	9.831	0.000	4568680	5.00	4.78	
2	11.479	11.479	0.000	4641745	5.00	4.65	
						RPD = 2.80	
25 Endrin aldehyde							
1	10.201	10.199	0.002	4225378	5.00	4.74	
2	11.602	11.600	0.002	4182927	5.00	4.48	
						RPD = 5.72	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.787	10.785	0.002	2816927	5.00	6.15	
2	12.546	12.546	0.000	2821527	5.00	5.77	
						RPD = 6.37	
28 Endosulfan sulfate							
1	10.926	10.924	0.002	4704064	5.00	4.72	
2	12.023	12.023	0.000	4765017	5.00	4.50	
						RPD = 4.84	
29 Endrin ketone							
1	11.325	11.323	0.002	5091215	5.00	4.17	
2	12.767	12.766	0.001	5168648	5.00	4.21	
						RPD = 1.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.931	12.930	0.001	5593629	5.00	5.97	
2	14.485	14.484	0.001	5837367	5.00	5.73	
						RPD = 4.08	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

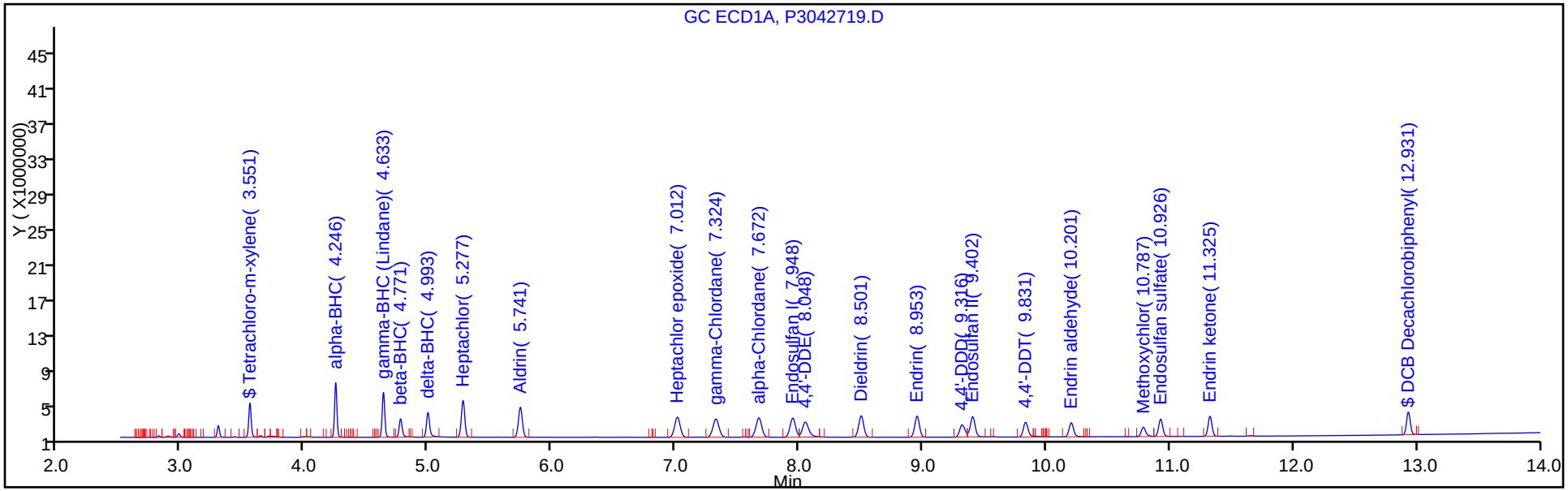
Report Date: 28-Apr-2015 08:11:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

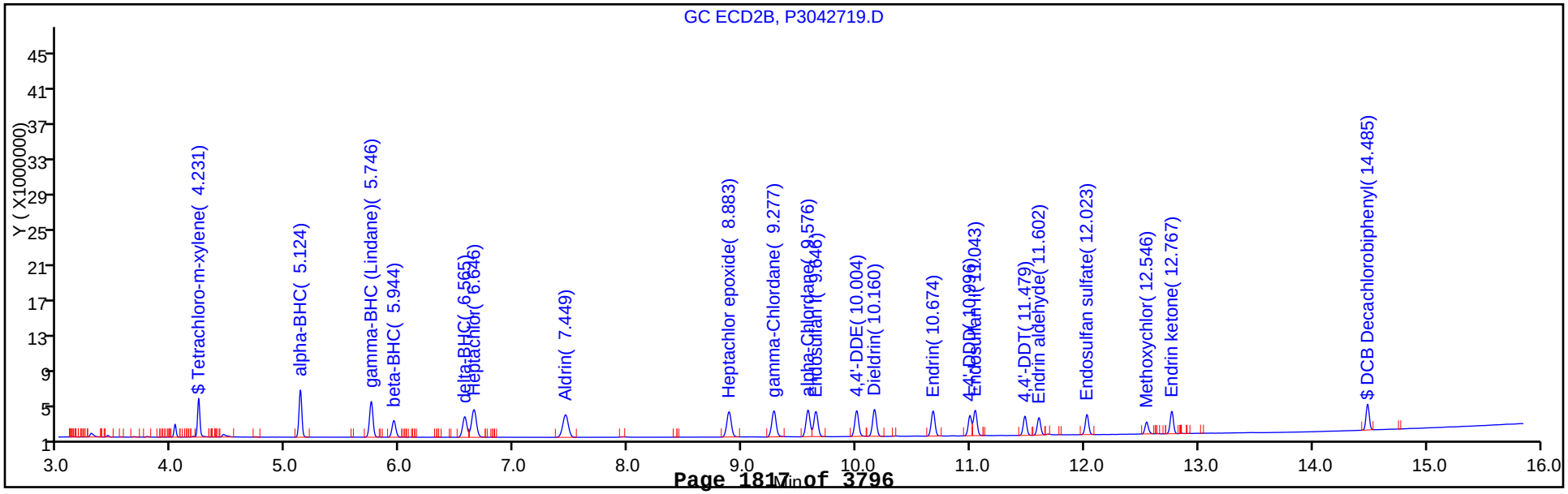
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042719.D

Injection Date:	27-Apr-2015 17:51:07	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW MS Lab Sample ID: 240-49236-2 MS

Matrix: Water (TCLP) Lab File ID: P3042714.D

Analysis Method: 8081A Date Collected: 04/10/2015 08:30

Extraction Method: 3520C Date Extracted: 04/22/2015 15:15

Sample wt/vol: 200(mL) Date Analyzed: 04/27/2015 15:52

Con. Extract Vol.: 3(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
57-74-9	Chlordane (technical)	0.0075	U Q	0.19	0.0075	0.00088
72-20-8	Endrin	0.000411	D Q J	0.063	0.00075	0.000081
58-89-9	gamma-BHC (Lindane)	0.00157	J D Q	0.063	0.00075	0.000081
76-44-8	Heptachlor	0.000356	D Q J	0.063	0.00075	0.000088
1024-57-3	Heptachlor epoxide	0.000591	D Q J	0.063	0.00075	0.000094
72-43-5	Methoxychlor	0.00106	D Q J	0.19	0.00075	0.000081
8001-35-2	Toxaphene	0.030	U Q	3.1	0.030	0.0012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	2	Q	44-144
877-09-8	Tetrachloro-m-xylene	34	Q	44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042714.D
Lims ID: 240-49236-F-2-I MS
Client ID:
Sample Type: MS
Inject. Date: 27-Apr-2015 15:52:40 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 240-0042968-014
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:20:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.550	0.004	4415561	13.3	4.49	
2	4.231	4.231	0.000	3902101	13.3	3.46	
						RPD = 25.84	
5 gamma-BHC (Lindane)							
1	4.635	4.633	0.002	32283789	33.3	20.9	
2	5.746	5.744	0.002	32740779	33.3	18.5	
						RPD = 12.23	
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1	5.282	5.276	0.006	6929243	33.3	4.75	
2	6.645	6.645	0.000	6997999	33.3	4.14	
						RPD = 13.70	
12 Heptachlor epoxide							
1	7.018	7.013	0.005	10268566	33.3	7.88	
2	8.882	8.882	0.000	10709196	33.3	7.46	
						RPD = 5.41	
18 Endrin							
1	8.950	8.955	-0.005	6315587	33.3	5.49	
2	10.672	10.672	0.000	7877799	33.3	6.53	
						RPD = 17.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
27 Methoxychlor							
1	10.780	10.785	-0.005	6478615	66.7	14.1	
2	12.545	12.546	-0.001	3102230	66.7	6.34	
						RPD = 76.14	
$ 30 DCB Decachlorobiphenyl							
1	12.934	12.930	0.004	311430	13.3	0.3326	
2	14.483	14.484	-0.001	239079	13.3	0.2349	
						RPD = 34.44	

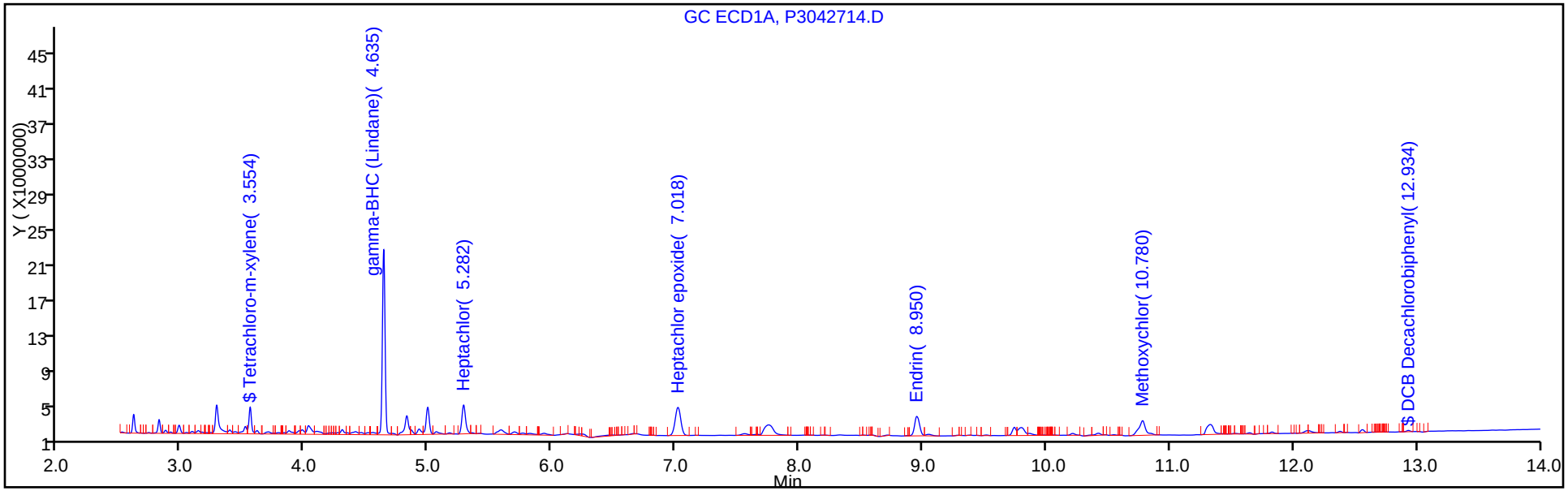
Report Date: 28-Apr-2015 08:11:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

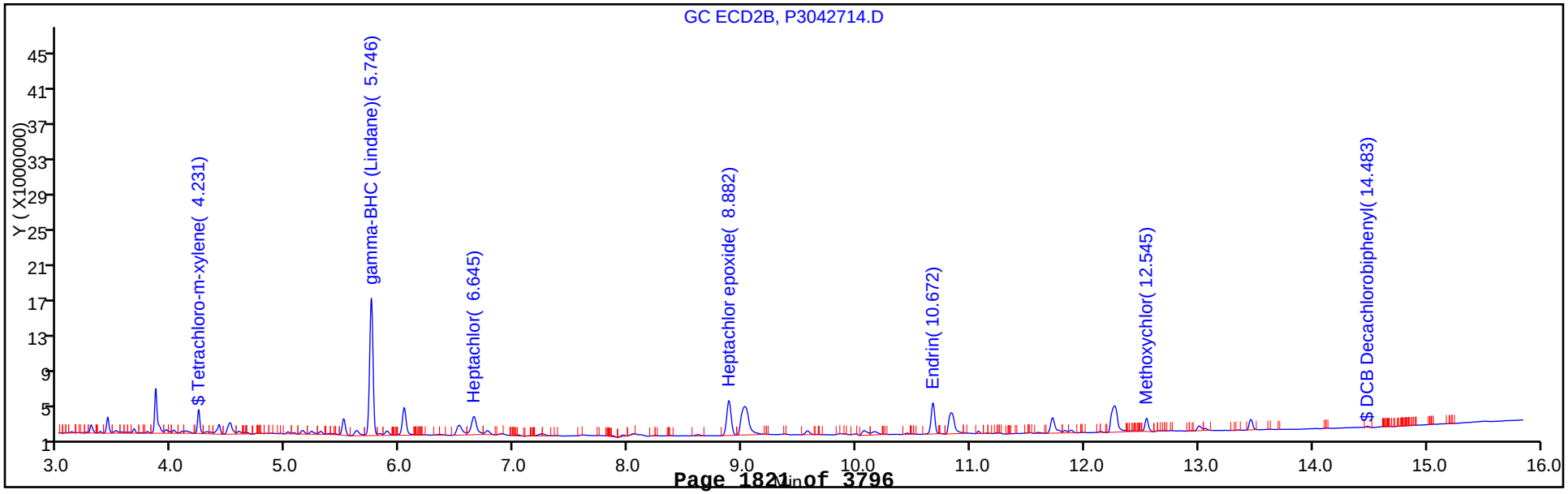
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042714.D

Injection Date:	27-Apr-2015 15:52:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-F-2-I MS			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW MS Lab Sample ID: 240-49236-2 MS

Matrix: Water (TCLP) Lab File ID: P3042714.D

Analysis Method: 8081A Date Collected: 04/10/2015 08:30

Extraction Method: 3520C Date Extracted: 04/22/2015 15:15

Sample wt/vol: 200(mL) Date Analyzed: 04/27/2015 15:52

Con. Extract Vol.: 3(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 178086 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	2	Q	44-144
877-09-8	Tetrachloro-m-xylene	26	Q	44-127

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042714.D
Lims ID: 240-49236-F-2-I MS
Client ID:
Sample Type: MS
Inject. Date: 27-Apr-2015 15:52:40 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 240-0042968-014
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150427-42968.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 28-Apr-2015 08:11:45 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK009

First Level Reviewer: matthewsb Date: 28-Apr-2015 07:20:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.550	0.004	4415561	13.3	4.49	
2	4.231	4.231	0.000	3902101	13.3	3.46	
						RPD = 25.84	
5 gamma-BHC (Lindane)							
1	4.635	4.633	0.002	32283789	33.3	20.9	
2	5.746	5.744	0.002	32740779	33.3	18.5	
						RPD = 12.23	
8 Chlordane (technical)							
1		5.161				ND	
1		6.047					
1		7.325					
1		7.669					
2		6.319					
2		7.942					
2		9.276					
2		9.574					
9 Heptachlor							
1	5.282	5.276	0.006	6929243	33.3	4.75	
2	6.645	6.645	0.000	6997999	33.3	4.14	
						RPD = 13.70	
12 Heptachlor epoxide							
1	7.018	7.013	0.005	10268566	33.3	7.88	
2	8.882	8.882	0.000	10709196	33.3	7.46	
						RPD = 5.41	
18 Endrin							
1	8.950	8.955	-0.005	6315587	33.3	5.49	
2	10.672	10.672	0.000	7877799	33.3	6.53	
						RPD = 17.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							
1		9.608				ND	
1		10.072					
1		10.384					
1		10.723					
1		10.833					
2		11.019					
2		11.186					
2		11.611					
2		12.346					
2		12.436					
27 Methoxychlor							
1	10.780	10.785	-0.005	6478615	66.7	14.1	
2	12.545	12.546	-0.001	3102230	66.7	6.34	
						RPD = 76.14	
$ 30 DCB Decachlorobiphenyl							
1	12.934	12.930	0.004	311430	13.3	0.3326	
2	14.483	14.484	-0.001	239079	13.3	0.2349	
						RPD = 34.44	

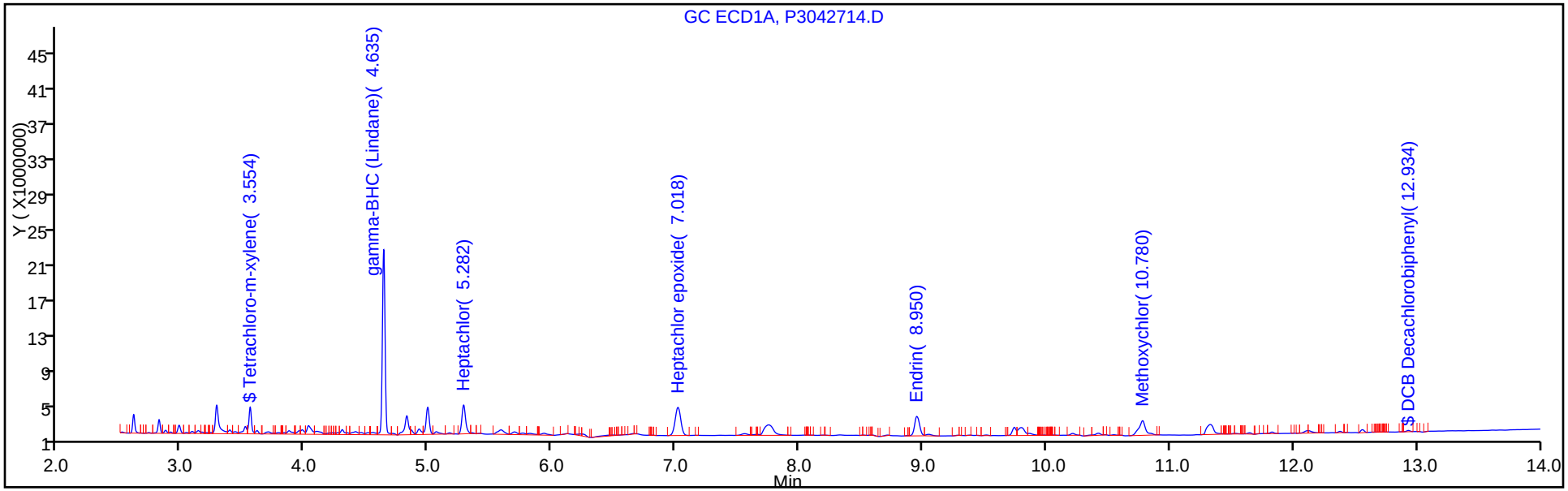
Report Date: 28-Apr-2015 08:11:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

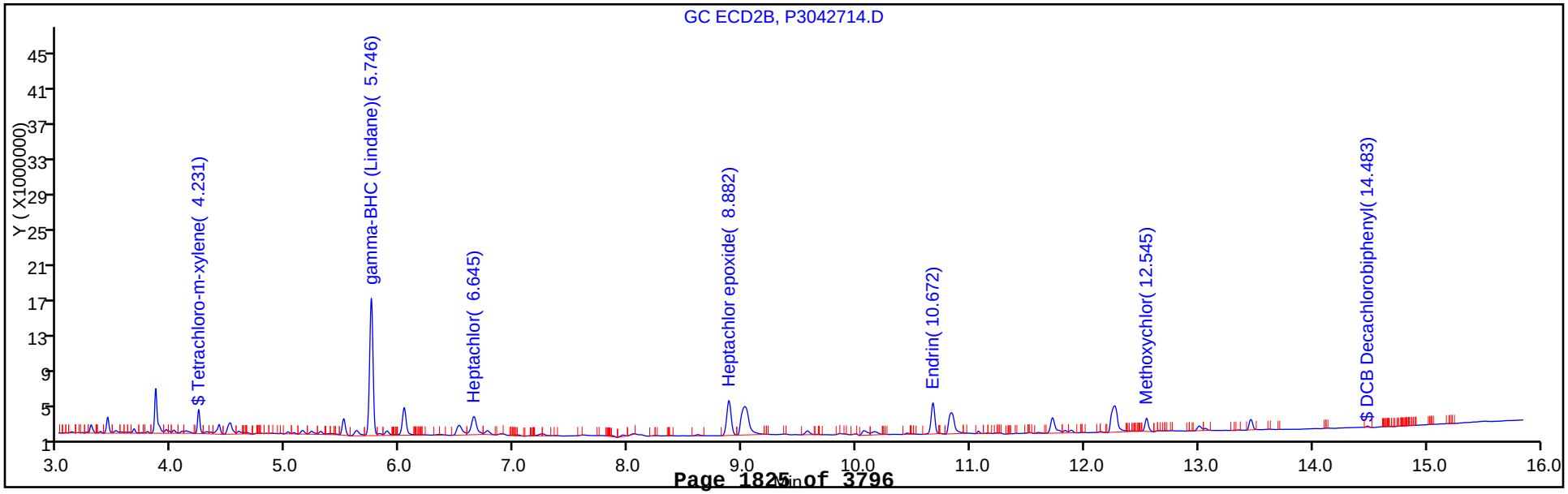
Data File: \\NCChrom\ChromData\A2HP3\20150427-42968.b\P3042714.D

Injection Date:	27-Apr-2015 15:52:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49236-F-2-I MS			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 03/31/2015 12:56

Analysis Batch Number: 174448 End Date: 03/31/2015 22:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 240-174448/5 IC		03/31/2015 12:56	1		CLP-1 0.53(mm)
STD 240-174448/5 IC		03/31/2015 12:56	1		CLP-2 0.53(mm)
STD 240-174448/6 IC		03/31/2015 13:19	1		CLP-1 0.53(mm)
STD 240-174448/6 IC		03/31/2015 13:19	1		CLP-2 0.53(mm)
STD 240-174448/7 IC		03/31/2015 13:42	1		CLP-1 0.53(mm)
STD 240-174448/7 IC		03/31/2015 13:42	1		CLP-2 0.53(mm)
STD 240-174448/8 IC		03/31/2015 14:05	1		CLP-1 0.53(mm)
STD 240-174448/8 IC		03/31/2015 14:05	1		CLP-2 0.53(mm)
STD 240-174448/9 IC		03/31/2015 14:28	1		CLP-1 0.53(mm)
STD 240-174448/9 IC		03/31/2015 14:28	1		CLP-2 0.53(mm)
STD 240-174448/10 IC		03/31/2015 14:51	1		CLP-1 0.53(mm)
STD 240-174448/10 IC		03/31/2015 14:51	1		CLP-2 0.53(mm)
ICV 240-174448/11		03/31/2015 15:15	1		CLP-1 0.53(mm)
ICV 240-174448/11		03/31/2015 15:15	1		CLP-2 0.53(mm)
STD 240-174448/12 IC		03/31/2015 15:37	1	P3033112.D	CLP-1 0.53(mm)
STD 240-174448/12 IC		03/31/2015 15:37	1	P3033112.D	CLP-2 0.53(mm)
STD 240-174448/13 IC		03/31/2015 16:01	1	P3033113.D	CLP-1 0.53(mm)
STD 240-174448/13 IC		03/31/2015 16:01	1	P3033113.D	CLP-2 0.53(mm)
STD 240-174448/14 ICRT		03/31/2015 16:24	1	P3033114.D	CLP-1 0.53(mm)
STD 240-174448/14 ICRT		03/31/2015 16:24	1	P3033114.D	CLP-2 0.53(mm)
STD 240-174448/15 IC		03/31/2015 16:47	1	P3033115.D	CLP-1 0.53(mm)
STD 240-174448/15 IC		03/31/2015 16:47	1	P3033115.D	CLP-2 0.53(mm)
STD 240-174448/16 IC		03/31/2015 17:11	1	P3033116.D	CLP-1 0.53(mm)
STD 240-174448/16 IC		03/31/2015 17:11	1	P3033116.D	CLP-2 0.53(mm)
ICV 240-174448/17		03/31/2015 17:34	1	P3033117.D	CLP-1 0.53(mm)
ICV 240-174448/17		03/31/2015 17:34	1	P3033117.D	CLP-2 0.53(mm)
STD 240-174448/18 IC		03/31/2015 17:57	1	P3033118.D	CLP-1 0.53(mm)
STD 240-174448/18 IC		03/31/2015 17:57	1	P3033118.D	CLP-2 0.53(mm)
STD 240-174448/19 IC		03/31/2015 18:19	1	P3033119.D	CLP-1 0.53(mm)
STD 240-174448/19 IC		03/31/2015 18:19	1	P3033119.D	CLP-2 0.53(mm)
STD 240-174448/20 ICRT		03/31/2015 18:42	1	P3033120.D	CLP-1 0.53(mm)
STD 240-174448/20 ICRT		03/31/2015 18:42	1	P3033120.D	CLP-2 0.53(mm)
STD 240-174448/21 IC		03/31/2015 19:04	1	P3033121.D	CLP-1 0.53(mm)
STD 240-174448/21 IC		03/31/2015 19:04	1	P3033121.D	CLP-2 0.53(mm)
STD 240-174448/22 IC		03/31/2015 19:26	1	P3033122.D	CLP-1 0.53(mm)
STD 240-174448/22 IC		03/31/2015 19:26	1	P3033122.D	CLP-2 0.53(mm)
ICV 240-174448/23		03/31/2015 19:48	1	P3033123.D	CLP-1 0.53(mm)
ICV 240-174448/23		03/31/2015 19:48	1	P3033123.D	CLP-2 0.53(mm)
PEM 240-174448/24		03/31/2015 20:11	1	P3033124.D	CLP-1 0.53(mm)
PEM 240-174448/24		03/31/2015 20:11	1	P3033124.D	CLP-2 0.53(mm)
STD 240-174448/25 IC		03/31/2015 20:34	1	P3033125.D	CLP-1 0.53(mm)
STD 240-174448/25 IC		03/31/2015 20:34	1	P3033125.D	CLP-2 0.53(mm)
STD 240-174448/26 IC		03/31/2015 20:57	1	P3033126.D	CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 03/31/2015 12:56

Analysis Batch Number: 174448 End Date: 03/31/2015 22:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 240-174448/26 IC		03/31/2015 20:57	1	P3033126.D	CLP-2 0.53(mm)
STD 240-174448/27 ICRT		03/31/2015 21:20	1	P3033127.D	CLP-1 0.53(mm)
STD 240-174448/27 ICRT		03/31/2015 21:20	1	P3033127.D	CLP-2 0.53(mm)
STD 240-174448/28 IC		03/31/2015 21:44	1	P3033128.D	CLP-1 0.53(mm)
STD 240-174448/28 IC		03/31/2015 21:44	1	P3033128.D	CLP-2 0.53(mm)
STD 240-174448/29 IC		03/31/2015 22:07	1	P3033129.D	CLP-1 0.53(mm)
STD 240-174448/29 IC		03/31/2015 22:07	1	P3033129.D	CLP-2 0.53(mm)
STD 240-174448/30 IC		03/31/2015 22:29	1	P3033130.D	CLP-1 0.53(mm)
STD 240-174448/30 IC		03/31/2015 22:29	1	P3033130.D	CLP-2 0.53(mm)
ICV 240-174448/31		03/31/2015 22:53	1	P3033131.D	CLP-1 0.53(mm)
ICV 240-174448/31		03/31/2015 22:53	1	P3033131.D	CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/16/2015 15:14

Analysis Batch Number: 176694 End Date: 04/17/2015 03:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-176694/5		04/16/2015 15:14	1	P3041605.D	CLP-1 0.53(mm)
PEM 240-176694/5		04/16/2015 15:14	1	P3041605.D	CLP-2 0.53(mm)
STD 240-176694/6 IC		04/16/2015 15:37	1		CLP-1 0.53(mm)
STD 240-176694/6 IC		04/16/2015 15:37	1		CLP-2 0.53(mm)
STD 240-176694/7 IC		04/16/2015 16:01	1		CLP-1 0.53(mm)
STD 240-176694/7 IC		04/16/2015 16:01	1		CLP-2 0.53(mm)
STD 240-176694/8 ICRT		04/16/2015 16:24	1		CLP-1 0.53(mm)
STD 240-176694/8 ICRT		04/16/2015 16:24	1		CLP-2 0.53(mm)
STD 240-176694/9 IC		04/16/2015 16:47	1		CLP-1 0.53(mm)
STD 240-176694/9 IC		04/16/2015 16:47	1		CLP-2 0.53(mm)
STD 240-176694/10 IC		04/16/2015 17:12	1		CLP-1 0.53(mm)
STD 240-176694/10 IC		04/16/2015 17:12	1		CLP-2 0.53(mm)
CCV 240-176694/11 CCVRT		04/16/2015 17:35	1		CLP-1 0.53(mm)
CCV 240-176694/11 CCVRT		04/16/2015 17:35	1		CLP-2 0.53(mm)
CCV 240-176694/12 CCVRT		04/16/2015 17:59	1	P3041612.D	CLP-1 0.53(mm)
CCV 240-176694/12 CCVRT		04/16/2015 17:59	1	P3041612.D	CLP-2 0.53(mm)
CCV 240-176694/13 CCVRT		04/16/2015 18:22	1		CLP-1 0.53(mm)
CCV 240-176694/13 CCVRT		04/16/2015 18:22	1		CLP-2 0.53(mm)
CCV 240-176694/14 CCVRT		04/16/2015 18:47	1	P3041614.D	CLP-1 0.53(mm)
CCV 240-176694/14 CCVRT		04/16/2015 18:47	1	P3041614.D	CLP-2 0.53(mm)
MRL 240-176694/15		04/16/2015 19:10	1	P3041615.D	CLP-1 0.53(mm)
MRL 240-176694/15		04/16/2015 19:10	1	P3041615.D	CLP-2 0.53(mm)
MRL 240-176694/16		04/16/2015 19:33	1	P3041616.D	CLP-1 0.53(mm)
MRL 240-176694/16		04/16/2015 19:33	1	P3041616.D	CLP-2 0.53(mm)
MB 240-176509/2-A		04/16/2015 19:56	1	P3041617.D	CLP-1 0.53(mm)
MB 240-176509/2-A		04/16/2015 19:56	1	P3041617.D	CLP-2 0.53(mm)
LCS 240-176509/3-A		04/16/2015 20:19	1	P3041618.D	CLP-1 0.53(mm)
LCS 240-176509/3-A		04/16/2015 20:19	1	P3041618.D	CLP-2 0.53(mm)
240-49236-3 RE	079SB-0385-0001-SW RE	04/16/2015 20:43	1	P3041619.D	CLP-1 0.53(mm)
240-49236-3 RE	079SB-0385-0001-SW RE	04/16/2015 20:43	1	P3041619.D	CLP-2 0.53(mm)
ZZZZZ		04/16/2015 21:06	1		CLP-1 0.53(mm)
ZZZZZ		04/16/2015 21:06	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2015 21:30	1		CLP-1 0.53(mm)
ZZZZZ		04/16/2015 21:30	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2015 21:52	1		CLP-1 0.53(mm)
ZZZZZ		04/16/2015 21:52	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2015 22:15	1		CLP-1 0.53(mm)
ZZZZZ		04/16/2015 22:15	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2015 22:38	1		CLP-1 0.53(mm)
ZZZZZ		04/16/2015 22:38	1		CLP-2 0.53(mm)
ZZZZZ		04/16/2015 23:01	1		CLP-1 0.53(mm)

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GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/16/2015 15:14

Analysis Batch Number: 176694 End Date: 04/17/2015 03:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/16/2015 23:01	1		CLP-2 0.53(mm)
CCV 240-176694/26		04/16/2015 23:24	1	P3041626.D	CLP-1 0.53(mm)
CCV 240-176694/26		04/16/2015 23:24	1	P3041626.D	CLP-2 0.53(mm)
ZZZZZ		04/16/2015 23:47	1		CLP-1 0.53(mm)
ZZZZZ		04/16/2015 23:47	1		CLP-2 0.53(mm)
ZZZZZ		04/17/2015 00:10	1		CLP-1 0.53(mm)
ZZZZZ		04/17/2015 00:10	1		CLP-2 0.53(mm)
ZZZZZ		04/17/2015 00:33	1		CLP-1 0.53(mm)
ZZZZZ		04/17/2015 00:33	1		CLP-2 0.53(mm)
MRL 240-176694/30		04/17/2015 00:56	1	P3041630.D	CLP-1 0.53(mm)
MRL 240-176694/30		04/17/2015 00:56	1	P3041630.D	CLP-2 0.53(mm)
MRL 240-176694/31		04/17/2015 01:19	1	P3041631.D	CLP-1 0.53(mm)
MRL 240-176694/31		04/17/2015 01:19	1	P3041631.D	CLP-2 0.53(mm)
CCV 240-176694/32		04/17/2015 01:40	1		CLP-1 0.53(mm)
CCV 240-176694/32		04/17/2015 01:40	1		CLP-2 0.53(mm)
CCV 240-176694/33		04/17/2015 02:03	1		CLP-1 0.53(mm)
CCV 240-176694/33		04/17/2015 02:03	1		CLP-2 0.53(mm)
CCV 240-176694/34		04/17/2015 02:26	1	P3041634.D	CLP-1 0.53(mm)
CCV 240-176694/34		04/17/2015 02:26	1	P3041634.D	CLP-2 0.53(mm)
CCV 240-176694/35		04/17/2015 02:48	1		CLP-1 0.53(mm)
CCV 240-176694/35		04/17/2015 02:48	1		CLP-2 0.53(mm)
CCV 240-176694/36		04/17/2015 03:11	1		CLP-1 0.53(mm)
CCV 240-176694/36		04/17/2015 03:11	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/21/2015 14:22

Analysis Batch Number: 177258 End Date: 04/22/2015 09:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-177258/5		04/21/2015 14:22	1		CLP-1 0.53(mm)
PEM 240-177258/5		04/21/2015 14:22	1		CLP-2 0.53(mm)
CCV 240-177258/6 CCVRT		04/21/2015 14:46	1		CLP-1 0.53(mm)
CCV 240-177258/6 CCVRT		04/21/2015 14:46	1		CLP-2 0.53(mm)
CCV 240-177258/7 CCVRT		04/21/2015 15:08	1		CLP-1 0.53(mm)
CCV 240-177258/7 CCVRT		04/21/2015 15:08	1		CLP-2 0.53(mm)
CCV 240-177258/8 CCVRT		04/21/2015 15:32	1	P3042108.D	CLP-1 0.53(mm)
CCV 240-177258/8 CCVRT		04/21/2015 15:32	1	P3042108.D	CLP-2 0.53(mm)
CCV 240-177258/9 CCVRT		04/21/2015 15:55	1	P3042109.D	CLP-1 0.53(mm)
CCV 240-177258/9 CCVRT		04/21/2015 15:55	1	P3042109.D	CLP-2 0.53(mm)
CCV 240-177258/10 CCVRT		04/21/2015 16:19	1	P3042110.D	CLP-1 0.53(mm)
CCV 240-177258/10 CCVRT		04/21/2015 16:19	1	P3042110.D	CLP-2 0.53(mm)
ZZZZZ		04/21/2015 17:05	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 17:05	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 17:28	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 17:28	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 17:52	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 17:52	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 18:15	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 18:15	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 18:38	10		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 18:38	10		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 19:01	10		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 19:01	10		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 19:24	50		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 19:24	50		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 19:47	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 19:47	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 20:10	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 20:10	1		CLP-2 0.53(mm)
CCV 240-177258/21		04/21/2015 20:33	1		CLP-1 0.53(mm)
CCV 240-177258/21		04/21/2015 20:33	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 20:56	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 20:56	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 21:19	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 21:19	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 21:42	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 21:42	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 22:04	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 22:04	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 22:27	1		CLP-1 0.53(mm)

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GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/21/2015 14:22

Analysis Batch Number: 177258 End Date: 04/22/2015 09:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/21/2015 22:27	1		CLP-2 0.53(mm)
PEM 240-177258/27		04/21/2015 22:49	1	P3042127.D	CLP-1 0.53(mm)
PEM 240-177258/27		04/21/2015 22:49	1	P3042127.D	CLP-2 0.53(mm)
CCV 240-177258/28		04/21/2015 23:12	1		CLP-1 0.53(mm)
CCV 240-177258/28		04/21/2015 23:12	1		CLP-2 0.53(mm)
MRL 240-177258/29		04/21/2015 23:35	1	P3042129.D	CLP-1 0.53(mm)
MRL 240-177258/29		04/21/2015 23:35	1	P3042129.D	CLP-2 0.53(mm)
MRL 240-177258/30		04/21/2015 23:58	1	P3042130.D	CLP-1 0.53(mm)
MRL 240-177258/30		04/21/2015 23:58	1	P3042130.D	CLP-2 0.53(mm)
MRL 240-177258/31		04/22/2015 00:22	1	P3042131.D	CLP-1 0.53(mm)
MRL 240-177258/31		04/22/2015 00:22	1	P3042131.D	CLP-2 0.53(mm)
ZZZZZ		04/22/2015 00:45	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 00:45	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 01:08	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 01:08	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 01:31	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 01:31	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 01:54	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 01:54	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 02:17	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 02:17	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 02:39	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 02:39	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 03:02	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 03:02	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 03:25	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 03:25	1		CLP-2 0.53(mm)
CCV 240-177258/40		04/22/2015 03:48	1	P3042140.D	CLP-1 0.53(mm)
CCV 240-177258/40		04/22/2015 03:48	1	P3042140.D	CLP-2 0.53(mm)
240-49236-1	079SB-0383-0001-IDW	04/22/2015 04:55	1	P3042143.D	CLP-1 0.53(mm)
240-49236-1	079SB-0383-0001-IDW	04/22/2015 04:55	1	P3042143.D	CLP-2 0.53(mm)
ZZZZZ		04/22/2015 05:18	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 05:18	1		CLP-2 0.53(mm)
MB 240-176661/5-A		04/22/2015 05:39	1	P3042145.D	CLP-1 0.53(mm)
MB 240-176661/5-A		04/22/2015 05:39	1	P3042145.D	CLP-2 0.53(mm)
LCS 240-176661/6-A		04/22/2015 06:03	5	P3042146.D	CLP-1 0.53(mm)
LCS 240-176661/6-A		04/22/2015 06:03	5	P3042146.D	CLP-2 0.53(mm)
MRL 240-177258/47		04/22/2015 06:25	1	P3042147.D	CLP-1 0.53(mm)
MRL 240-177258/47		04/22/2015 06:25	1	P3042147.D	CLP-2 0.53(mm)
MRL 240-177258/48		04/22/2015 06:49	1	P3042148.D	CLP-1 0.53(mm)
MRL 240-177258/48		04/22/2015 06:49	1	P3042148.D	CLP-2 0.53(mm)
MRL 240-177258/49		04/22/2015 07:12	1	P3042149.D	CLP-1 0.53(mm)
MRL 240-177258/49		04/22/2015 07:12	1	P3042149.D	CLP-2 0.53(mm)
CCV 240-177258/50		04/22/2015 07:36	1		CLP-1 0.53(mm)
CCV 240-177258/50		04/22/2015 07:36	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/21/2015 14:22

Analysis Batch Number: 177258 End Date: 04/22/2015 09:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-177258/51		04/22/2015 07:59	1		CLP-1 0.53(mm)
CCV 240-177258/51		04/22/2015 07:59	1		CLP-2 0.53(mm)
CCV 240-177258/52		04/22/2015 08:22	1	P3042152.D	CLP-1 0.53(mm)
CCV 240-177258/52		04/22/2015 08:22	1	P3042152.D	CLP-2 0.53(mm)
CCV 240-177258/53		04/22/2015 08:46	1	P3042153.D	CLP-1 0.53(mm)
CCV 240-177258/53		04/22/2015 08:46	1	P3042153.D	CLP-2 0.53(mm)
CCV 240-177258/54		04/22/2015 09:08	1	P3042154.D	CLP-1 0.53(mm)
CCV 240-177258/54		04/22/2015 09:08	1	P3042154.D	CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/27/2015 12:17

Analysis Batch Number: 178086 End Date: 04/28/2015 17:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-178086/5		04/27/2015 12:17	1	P3042705.D	CLP-1 0.53(mm)
PEM 240-178086/5		04/27/2015 12:17	1	P3042705.D	CLP-2 0.53(mm)
CCV 240-178086/6 CCVRT		04/27/2015 12:40	1	P3042706.D	CLP-1 0.53(mm)
CCV 240-178086/6 CCVRT		04/27/2015 12:40	1	P3042706.D	CLP-2 0.53(mm)
CCV 240-178086/7 CCVRT		04/27/2015 13:03	1	P3042707.D	CLP-1 0.53(mm)
CCV 240-178086/7 CCVRT		04/27/2015 13:03	1	P3042707.D	CLP-2 0.53(mm)
CCV 240-178086/8 CCVRT		04/27/2015 13:27	1	P3042708.D	CLP-1 0.53(mm)
CCV 240-178086/8 CCVRT		04/27/2015 13:27	1	P3042708.D	CLP-2 0.53(mm)
ZZZZZ		04/27/2015 13:50	1		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 13:50	1		CLP-2 0.53(mm)
MRL 240-178086/10		04/27/2015 14:15	1	P3042710.D	CLP-1 0.53(mm)
MRL 240-178086/10		04/27/2015 14:15	1	P3042710.D	CLP-2 0.53(mm)
MRL 240-178086/11		04/27/2015 14:40	1	P3042711.D	CLP-1 0.53(mm)
MRL 240-178086/11		04/27/2015 14:40	1	P3042711.D	CLP-2 0.53(mm)
MRL 240-178086/12		04/27/2015 15:04	1	P3042712.D	CLP-1 0.53(mm)
MRL 240-178086/12		04/27/2015 15:04	1	P3042712.D	CLP-2 0.53(mm)
240-49236-2 RE	079SB-0384-0001-IDW RE	04/27/2015 15:27	1	P3042713.D	CLP-1 0.53(mm)
240-49236-2 RE	079SB-0384-0001-IDW RE	04/27/2015 15:27	1	P3042713.D	CLP-2 0.53(mm)
240-49236-2 MS	079SB-0384-0001-IDW MS	04/27/2015 15:52	5	P3042714.D	CLP-1 0.53(mm)
240-49236-2 MS	079SB-0384-0001-IDW MS	04/27/2015 15:52	5	P3042714.D	CLP-2 0.53(mm)
MB 240-177491/3-A		04/27/2015 16:16	1	P3042715.D	CLP-1 0.53(mm)
MB 240-177491/3-A		04/27/2015 16:16	1	P3042715.D	CLP-2 0.53(mm)
LCS 240-177491/4-A		04/27/2015 16:39	5	P3042716.D	CLP-1 0.53(mm)
LCS 240-177491/4-A		04/27/2015 16:39	5	P3042716.D	CLP-2 0.53(mm)
MRL 240-178086/17		04/27/2015 17:03	1	P3042717.D	CLP-1 0.53(mm)
MRL 240-178086/17		04/27/2015 17:03	1	P3042717.D	CLP-2 0.53(mm)
MRL 240-178086/18		04/27/2015 17:27	1	P3042718.D	CLP-1 0.53(mm)
MRL 240-178086/18		04/27/2015 17:27	1	P3042718.D	CLP-2 0.53(mm)
MRL 240-178086/19		04/27/2015 17:51	1	P3042719.D	CLP-1 0.53(mm)
MRL 240-178086/19		04/27/2015 17:51	1	P3042719.D	CLP-2 0.53(mm)
CCV 240-178086/20		04/27/2015 18:13	1	P3042720.D	CLP-1 0.53(mm)
CCV 240-178086/20		04/27/2015 18:13	1	P3042720.D	CLP-2 0.53(mm)
CCV 240-178086/21		04/27/2015 18:38	1	P3042721.D	CLP-1 0.53(mm)
CCV 240-178086/21		04/27/2015 18:38	1	P3042721.D	CLP-2 0.53(mm)
CCV 240-178086/22		04/27/2015 19:02	1	P3042722.D	CLP-1 0.53(mm)
CCV 240-178086/22		04/27/2015 19:02	1	P3042722.D	CLP-2 0.53(mm)
ZZZZZ		04/27/2015 19:25	10		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 19:25	10		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 19:48	10		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 19:48	10		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 20:11	10		CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/27/2015 12:17

Analysis Batch Number: 178086 End Date: 04/28/2015 17:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/27/2015 20:11	10		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 20:35	10		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 20:35	10		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 20:58	20		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 20:58	20		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 21:22	100		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 21:22	100		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 21:44	10		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 21:44	10		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 22:08	1		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 22:08	1		CLP-2 0.53(mm)
ZZZZZ		04/27/2015 22:31	1		CLP-1 0.53(mm)
ZZZZZ		04/27/2015 22:31	1		CLP-2 0.53(mm)
CCV 240-178086/32		04/27/2015 22:55	1		CLP-1 0.53(mm)
CCV 240-178086/32		04/27/2015 22:55	1		CLP-2 0.53(mm)
PEM 240-178086/33		04/27/2015 23:18	1	P3042733.D	CLP-1 0.53(mm)
PEM 240-178086/33		04/27/2015 23:18	1	P3042733.D	CLP-2 0.53(mm)
CCV 240-178086/52		04/28/2015 06:45	1		CLP-1 0.53(mm)
CCV 240-178086/52		04/28/2015 06:45	1		CLP-2 0.53(mm)
CCV 240-178086/53		04/28/2015 07:08	1		CLP-1 0.53(mm)
CCV 240-178086/53		04/28/2015 07:08	1		CLP-2 0.53(mm)
PEM 240-178086/55		04/28/2015 07:54	1		CLP-1 0.53(mm)
PEM 240-178086/55		04/28/2015 07:54	1		CLP-2 0.53(mm)
CCV 240-178086/66		04/28/2015 12:11	1		CLP-1 0.53(mm)
CCV 240-178086/66		04/28/2015 12:11	1		CLP-2 0.53(mm)
CCV 240-178086/68		04/28/2015 12:58	1		CLP-1 0.53(mm)
CCV 240-178086/68		04/28/2015 12:58	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 13:21	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 13:21	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 13:44	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 13:44	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 14:09	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 14:09	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 14:32	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 14:32	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 14:56	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 14:56	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 15:21	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 15:21	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 15:45	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 15:45	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 16:09	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 16:09	1		CLP-2 0.53(mm)
ZZZZZ		04/28/2015 16:33	1		CLP-1 0.53(mm)
ZZZZZ		04/28/2015 16:33	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/27/2015 12:17

Analysis Batch Number: 178086 End Date: 04/28/2015 17:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-178086/78		04/28/2015 16:58	1		CLP-1 0.53(mm)
CCV 240-178086/78		04/28/2015 16:58	1		CLP-2 0.53(mm)
CCV 240-178086/79		04/28/2015 17:21	1		CLP-1 0.53(mm)
CCV 240-178086/79		04/28/2015 17:21	1		CLP-2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176509 Batch Start Date: 04/15/15 09:30 Batch Analyst: Coast, Chris

Batch Method: 3520C Batch End Date: 04/16/15 03:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	EX2/.2SURRW 00053	exNPDES spike 00003	AnalysisComment
240-49236-K-3	079SB-0385-0001-SW	3520C, 8081A	T	1040 mL	5 mL	7	1 mL		assoc. w/ 176510
MB 240-176509/2		3520C, 8081A		1000 mL	5 mL	7	1 mL		assoc. w/ 176510
LCS 240-176509/3		3520C, 8081A		1000 mL	5 mL	7	1 mL	0.5 mL	

Batch Notes	
Exchange Solvent Lot #	1864452
Na2SO4 Lot Number	1942692
pH Paper Lot Number	1928957
Prep Solvent Lot #	1943045
TCLP Fluid 1 ID	1943213

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176620 Batch Start Date: 04/15/15 17:00 Batch Analyst: Jones, Diane

Batch Method: 1311 Batch End Date: 04/16/15 09:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXpH(0-14) 00006	EXTCLPBUFF1 00469	EXTCLPFILTERS 00023	EXTCLPHCLW 00044	AnalysisComment	
240-49236-B-1	079SB-0383-0001-IDW	1311, 3520C, 8081A	P	1 mL	1 mL	1	1 mL	MS for Herb	
240-49236-F-2	079SB-0384-0001-IDW	1311, 3520C, 8081A	P	1 mL	1 mL	1	1 mL	Filter only H2O	

Batch Notes	
Tumbler Rotations per Minute	A, E = 31rpm

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176661 Batch Start Date: 04/16/15 13:30 Batch Analyst: Coast, Chris

Batch Method: 3520C Batch End Date: 04/18/15 07:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	EX2/.2SURRW 00053	EXTCLPPESTSPW 00018	
240-49236-B-1-C	079SB-0383-0001-IDW	3520C, 8081A	P	250 mL	3 mL	5	1 mL		
MB 240-176661/5		3520C, 8081A		250 mL	3 mL	5	1 mL		
LCS 240-176661/6		3520C, 8081A		250 mL	3 mL	5	1 mL	1 mL	

Batch Notes	
Exchange Solvent Lot #	1864451
Na2SO4 Lot Number	1942693
Prep Solvent Lot #	1952537

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 177491 Batch Start Date: 04/22/15 15:35 Batch Analyst: Ross, Justin

Batch Method: 3520C Batch End Date: 04/23/15 09:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	EX2/.2SURRW 00054	EXTCLPPESTSPW 00018	AnalysisComment
240-49236-F-2-A	079SB-0384-0001-IDW	3520C, 8081A	P	200 mL	3 mL	7	1 mL		limited volume
240-49236-F-2-A MS	079SB-0384-0001-IDW	3520C, 8081A	P	200 mL	3 mL	7	1 mL	1 mL	limited volume
MB 240-177491/3		3520C, 8081A		250 mL	3 mL	5	1 mL		
LCS 240-177491/4		3520C, 8081A		250 mL	3 mL	5	1 mL	1 mL	

Batch Notes	
Exchange Solvent Lot #	1864452
Na2SO4 Lot Number	1942692
Prep Solvent Lot #	1961984
TCLP Fluid 1 ID	1943213

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082 DOD

Polychlorinated Biphenyls (PCBs) by Gas Chromatography by Method 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079SB-0385-0001-SW	240-49236-3	76	76	23 Q	23 Q
	MB 240-176083/3-A	70	74	88	90
	LCS 240-176083/4-A	82	74	69	70

	QC LIMITS
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	40-135

Column to be used to flag recovery values

FORM II 8082

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-176376/4	111	104	118	111
	MRL 240-176376/10	111	119	130	120

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8082

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: SIG10031.D

Lab ID: LCS 240-176083/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	5.00	4.08	82	25-145	
Aroclor-1260	5.00	4.42	88	30-145	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: SIG10027.D

Lab ID: MRL 240-176376/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0541	108	70-130	
Aroclor-1260	0.0500	0.0543	109	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: SIG10033.D

Lab ID: MRL 240-176376/10 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0539	108	70-130	
Aroclor-1016	0.0500	0.0572	114	70-130	
Aroclor-1260	0.0500	0.0552	110	70-130	
Aroclor-1260	0.0500	0.0563	113	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: MB 240-176083/3-A

Matrix: Water Date Extracted: 04/13/2015 06:11

Lab File ID:(1) SIG10030.D Lab File ID:(2) SIG10030.D

Date Analyzed:(1) 04/14/2015 14:21 Date Analyzed:(2) 04/14/2015 14:21

Instrument ID:(1) A2HP10 Instrument ID:(2) A2HP10

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SB-0385-0001-SW	240-49236-3	04/14/2015 14:05	04/14/2015 14:05
	LCS 240-176083/4-A	04/14/2015 14:36	04/14/2015 14:36

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD05 240-174339/31 Date Analyzed: 03/30/2015 22:40

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): SIG10031.D Heated Purge: (Y/N) N

Calibration ID: 27551

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				1.46	7.23	
UPPER LIMIT				1.49	7.26	
LOWER LIMIT				1.43	7.20	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD05 240-174339/31 ICRT		03/30/2015 22:40	SIG10031.D	1.46	7.23	

Column used to flag values outside QC limits

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD05 240-174339/31 Date Analyzed: 03/30/2015 22:40

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): SIG10031.D Heated Purge: (Y/N) N

Calibration ID: 27552

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				1.85	8.29	
UPPER LIMIT				1.88	8.32	
LOWER LIMIT				1.82	8.26	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD05 240-174339/31 ICRT		03/30/2015 22:40	SIG10031.D	1.85	8.29	

Column used to flag values outside QC limits

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-176376/3 Date Analyzed: 04/14/2015 13:19

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): SIG10026.D Heated Purge: (Y/N) N

Calibration ID: 27551

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.44	7.20	
UPPER LIMIT				1.47	7.23	
LOWER LIMIT				1.41	7.17	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-176376/3 CCVRT		04/14/2015 13:19	SIG10026.D	1.44	7.20	
240-49236-3	079SB-0385-0001-SW	04/14/2015 14:05	SIG10029.D	1.44	7.20	
MB 240-176083/3-A		04/14/2015 14:21	SIG10030.D	1.44	7.20	
LCS 240-176083/4-A		04/14/2015 14:36	SIG10031.D	1.44	7.20	
CCV 240-176376/9		04/14/2015 14:52	SIG10032.D	1.44	7.20	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-176376/3 Date Analyzed: 04/14/2015 13:19

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): SIG10026.D Heated Purge: (Y/N) N

Calibration ID: 27552

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.83	8.28	
UPPER LIMIT				1.86	8.31	
LOWER LIMIT				1.80	8.25	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-176376/3 CCVRT		04/14/2015 13:19	SIG10026.D	1.83	8.28	
240-49236-3	079SB-0385-0001-SW	04/14/2015 14:05	SIG10029.D	1.84	8.28	
MB 240-176083/3-A		04/14/2015 14:21	SIG10030.D	1.83	8.28	
LCS 240-176083/4-A		04/14/2015 14:36	SIG10031.D	1.83	8.27	
CCV 240-176376/9		04/14/2015 14:52	SIG10032.D	1.83	8.27	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176083/4-A

Instrument ID (1): A2HP10 Instrument ID (2): A2HP10

Date Analyzed (1): 04/14/2015 14:36 Date Analyzed (2): 04/14/2015 14:36

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.37	2.32	2.42	3.90	4.08	2.1
		2	2.81	2.76	2.86	3.86		
		3	3.30	3.25	3.35	4.52		
		4	3.45	3.40	3.50	4.20		
		5	3.97	3.92	4.02	3.90		
	2	1	1.77	1.72	1.82	3.85	4.16	
		2	2.11	2.06	2.16	4.06		
		3	2.57	2.52	2.62	4.43		
		4	2.70	2.65	2.75	4.38		
		5	3.13	3.08	3.18	4.09		
Aroclor-1260	1	1	5.34	5.29	5.39	4.31	4.42	3.0
		2	5.58	5.53	5.63	4.46		
		3	5.95	5.90	6.00	4.99		
		4	6.65	6.60	6.70	4.13		
		5	7.03	6.98	7.08	4.21		
	2	1	4.42	4.37	4.47	4.20	4.29	
		2	4.72	4.67	4.77	4.31		
		3	5.01	4.96	5.06	4.84		
		4	5.74	5.69	5.79	3.90		
		5	6.03	5.98	6.08	4.22		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW Lab Sample ID: 240-49236-3

Matrix: Water Lab File ID: SIG10029.D

Analysis Method: 8082 Date Collected: 04/10/2015 08:45

Extraction Method: 3520C Date Extracted: 04/13/2015 06:11

Sample wt/vol: 1050(mL) Date Analyzed: 04/14/2015 14:05

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		40-140
2051-24-3	DCB Decachlorobiphenyl	23	Q	40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10029.D
Lims ID: 240-49236-M-3-A Lab Sample ID: 240-49236-3
Client ID: 079SB-0385-0001-SW
Sample Type: Client
Inject. Date: 14-Apr-2015 14:05:47 ALS Bottle#: 29 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-006
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene						
1	1.437	1.435	0.002	22892476	0.0304	
2	1.835	1.832	0.003	22682867	0.0303	
					RPD = 0.35	
3 PCB-1221						
1		1.600			ND	
1		1.732				
1		1.768				
2		2.154				
2		2.303				
2		2.367				
4 PCB-1232						
1		1.768			ND	
1		2.106				
1		2.563				
1		2.700				
1		3.128				
2		2.366				
2		2.808				
2		3.301				
2		3.448				
2		4.096				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
6 PCB-1016						
1		1.769			ND	
1		2.108				
1		2.566				
1		2.702				
1		3.128				
2		2.365				
2		2.809				
2		3.302				
2		3.449				
2		3.965				
5 PCB-1242						
1		1.769			ND	
1		2.107				
1		2.565				
1		2.701				
1		3.128				
2		2.367				
2		2.810				
2		3.302				
2		3.449				
2		4.097				
7 PCB-1248						
1		2.105			ND	
1		2.563				
1		3.126				
1		3.757				
1		4.220				
2		2.808				
2		3.300				
2		4.096				
2		4.428				
2		5.129				
8 PCB-1254						
1		3.526			ND	
1		3.809				
1		4.219				
1		4.519				
1		5.013				
2		4.422				
2		4.641				
2		5.129				
2		5.381				
2		5.954				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
10 PCB-1260						
1		4.421			ND	
1		4.722				
1		5.013				
1		5.737				
1		6.030				
2		5.343				
2		5.580				
2		5.953				
2		6.648				
2		7.030				
$ 12 DCB Decachlorobiphenyl						
1	7.202	7.201	0.001	5406696	0.009154	
2	8.275	8.275	0.000	5935278	0.009198	
					RPD = 0.48	

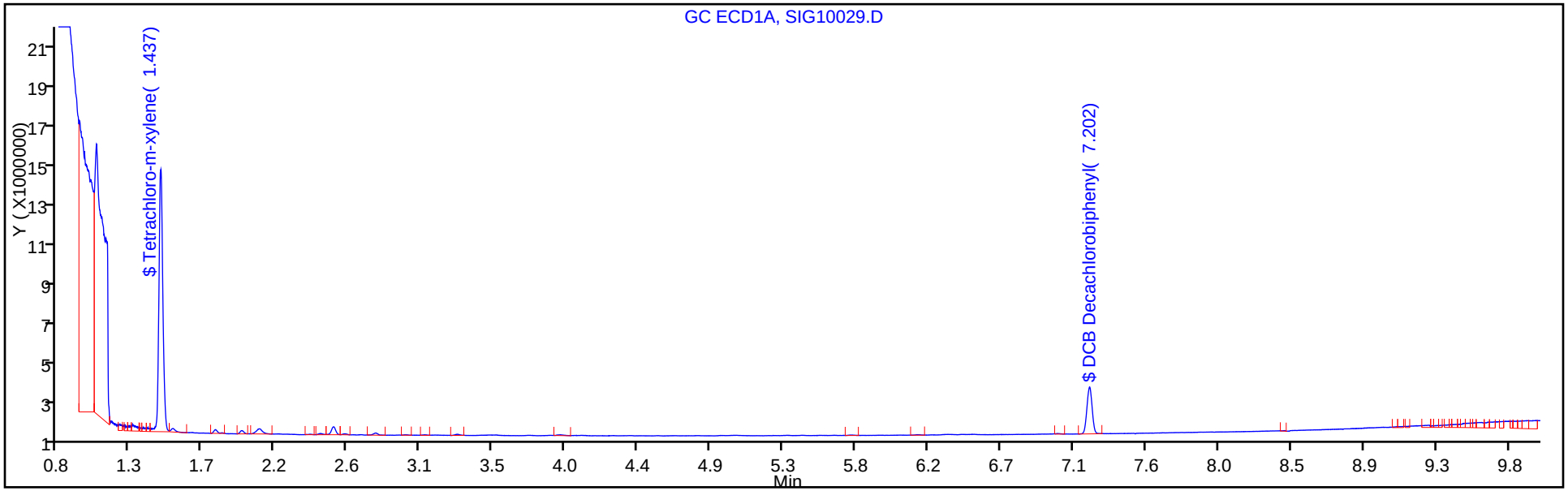
Report Date: 15-Apr-2015 10:01:50 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

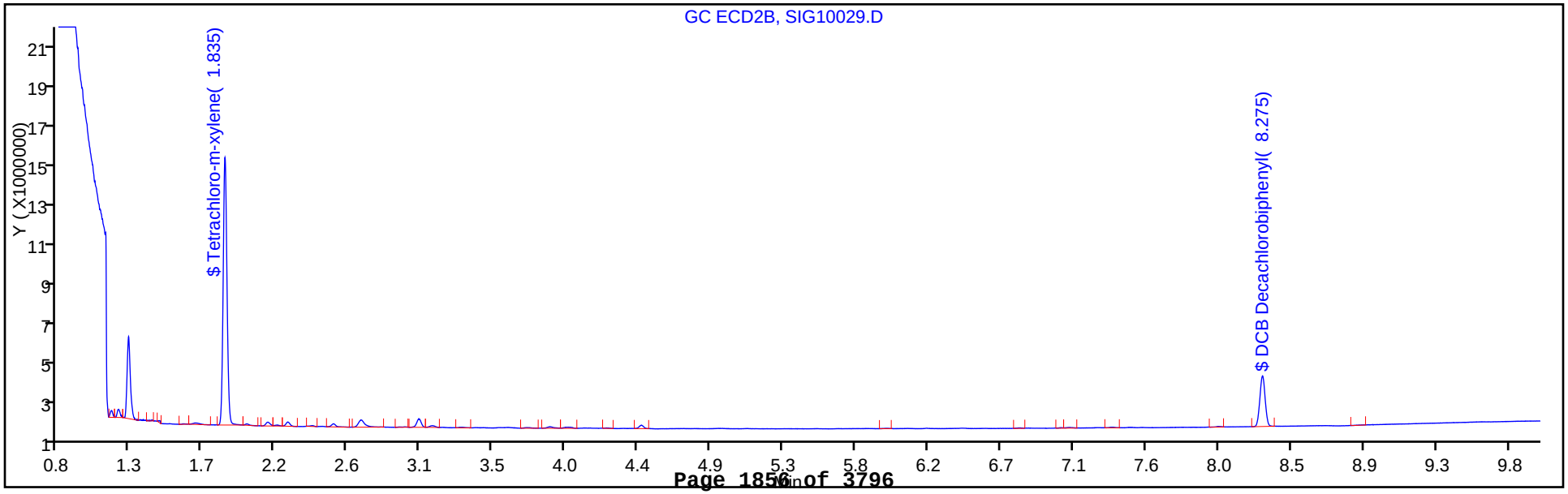
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10029.D

Injection Date:	14-Apr-2015 14:05:47	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	240-49236-M-3-A	Lab Sample ID:	240-49236-3	Worklist Smp#:	6
Client ID:	079SB-0385-0001-SW				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW | Lab Sample ID: 240-49236-3

Matrix: Water | Lab File ID: SIG10029.D

Analysis Method: 8082 | Date Collected: 04/10/2015 08:45

Extraction Method: 3520C | Date Extracted: 04/13/2015 06:11

Sample wt/vol: 1050(mL) | Date Analyzed: 04/14/2015 14:05

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.19	U Q	0.48	0.19	0.12
12674-11-2	Aroclor-1016	0.19	U Q	0.48	0.19	0.16
11141-16-5	Aroclor-1232	0.19	U Q	0.48	0.19	0.15
53469-21-9	Aroclor-1242	0.38	U Q	0.48	0.38	0.21
12672-29-6	Aroclor-1248	0.19	U Q	0.48	0.19	0.095
11097-69-1	Aroclor-1254	0.19	U Q	0.48	0.19	0.15
11096-82-5	Aroclor-1260	0.19	U Q	0.48	0.19	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		40-140
2051-24-3	DCB Decachlorobiphenyl	23	Q	40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10029.D
Lims ID: 240-49236-M-3-A Lab Sample ID: 240-49236-3
Client ID: 079SB-0385-0001-SW
Sample Type: Client
Inject. Date: 14-Apr-2015 14:05:47 ALS Bottle#: 29 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-006
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene						
1	1.437	1.435	0.002	22892476	0.0304	
2	1.835	1.832	0.003	22682867	0.0303	
					RPD = 0.35	
3 PCB-1221						
1		1.600			ND	
1		1.732				
1		1.768				
2		2.154				
2		2.303				
2		2.367				
4 PCB-1232						
1		1.768			ND	
1		2.106				
1		2.563				
1		2.700				
1		3.128				
2		2.366				
2		2.808				
2		3.301				
2		3.448				
2		4.096				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
6 PCB-1016						
1		1.769			ND	
1		2.108				
1		2.566				
1		2.702				
1		3.128				
2		2.365				
2		2.809				
2		3.302				
2		3.449				
2		3.965				
5 PCB-1242						
1		1.769			ND	
1		2.107				
1		2.565				
1		2.701				
1		3.128				
2		2.367				
2		2.810				
2		3.302				
2		3.449				
2		4.097				
7 PCB-1248						
1		2.105			ND	
1		2.563				
1		3.126				
1		3.757				
1		4.220				
2		2.808				
2		3.300				
2		4.096				
2		4.428				
2		5.129				
8 PCB-1254						
1		3.526			ND	
1		3.809				
1		4.219				
1		4.519				
1		5.013				
2		4.422				
2		4.641				
2		5.129				
2		5.381				
2		5.954				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
10 PCB-1260						
1		4.421			ND	
1		4.722				
1		5.013				
1		5.737				
1		6.030				
2		5.343				
2		5.580				
2		5.953				
2		6.648				
2		7.030				
$ 12 DCB Decachlorobiphenyl						
1	7.202	7.201	0.001	5406696	0.009154	
2	8.275	8.275	0.000	5935278	0.009198	
					RPD = 0.48	

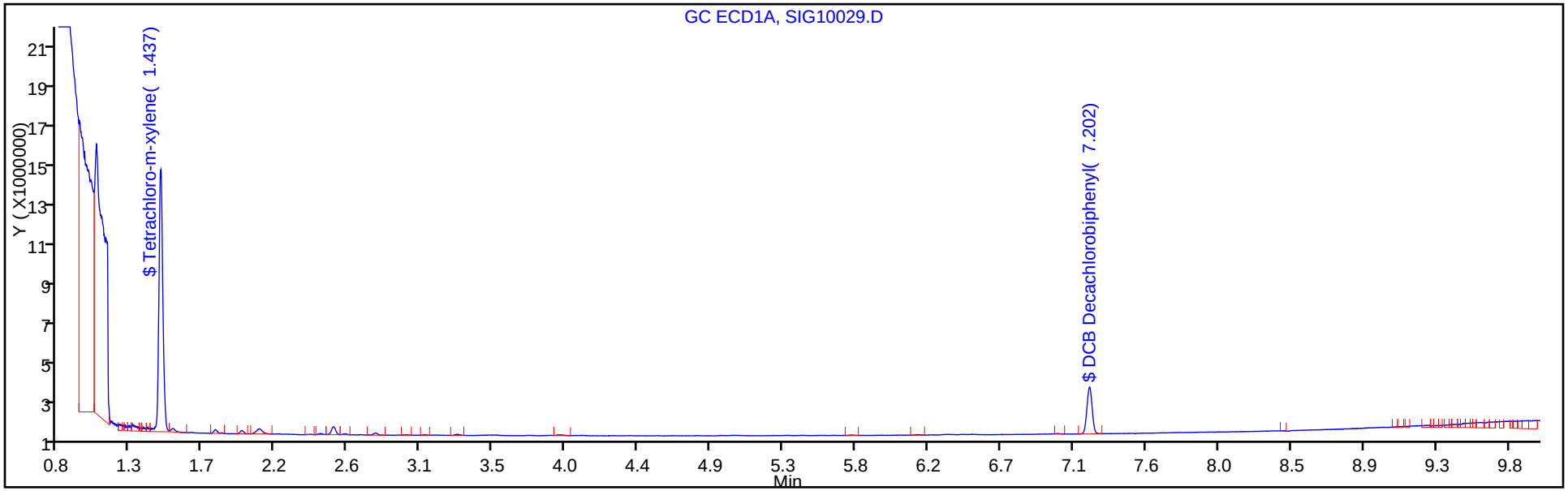
Report Date: 15-Apr-2015 10:01:50 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

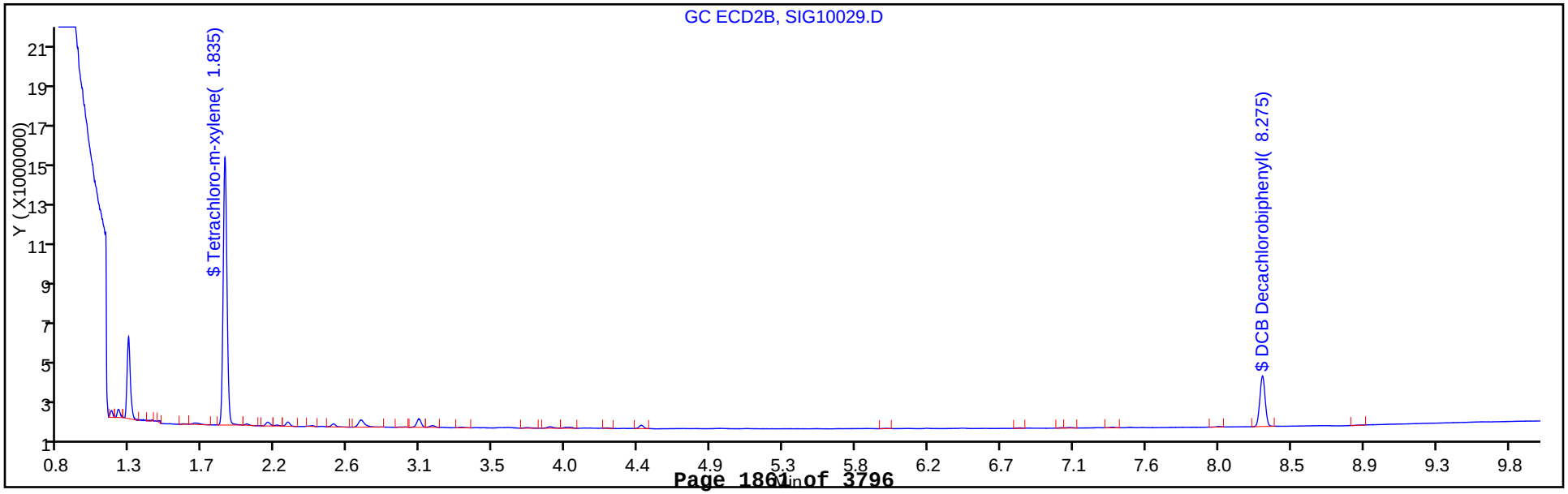
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10029.D

Injection Date:	14-Apr-2015 14:05:47	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	240-49236-M-3-A	Lab Sample ID:	240-49236-3	Worklist Smp#:	6
Client ID:	079SB-0385-0001-SW				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 15:41 Calibration End Date: 03/30/2015 16:58 Calibration ID: 27527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/4	SIG10004.D
Level 2	STD01 240-174339/5	SIG10005.D
Level 3	STD02 240-174339/6	SIG10006.D
Level 4	STD05 240-174339/7	SIG10007.D
Level 5	STD1 240-174339/8	SIG10008.D
Level 6	STD2 240-174339/9	SIG10009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	1.771	1.772	1.771	1.773	1.772	1.772					1.721 - 1.821	1.772
PCB-1232 Peak 2	2.108	2.110	2.109	2.111	2.110	2.110					2.058 - 2.158	2.110
PCB-1232 Peak 3	2.568	2.568	2.566	2.570	2.568	2.568					2.518 - 2.618	2.568
PCB-1232 Peak 4	2.703	2.706	2.704	2.705	2.706	2.704					2.653 - 2.753	2.705
PCB-1232 Peak 5	3.132	3.131	3.130	3.133	3.132	3.131					3.082 - 3.182	3.132
PCB-1262 Peak 1	4.422	4.423	4.422	4.424	4.423	4.423					4.372 - 4.472	4.423
PCB-1262 Peak 2	4.724	4.724	4.725	4.725	4.725	4.724					4.674 - 4.774	4.725
PCB-1262 Peak 3	5.140	5.143	5.144	5.143	5.144	5.144					5.090 - 5.190	5.143
PCB-1262 Peak 4	5.737	5.737	5.735	5.736	5.736	5.737					5.687 - 5.787	5.736
PCB-1262 Peak 5	6.075	6.076	6.077	6.075	6.076	6.076					6.025 - 6.125	6.076

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 15:41 Calibration End Date: 03/30/2015 16:58 Calibration ID: 27527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/4	SIG10004.D
Level 2	STD01 240-174339/5	SIG10005.D
Level 3	STD02 240-174339/6	SIG10006.D
Level 4	STD05 240-174339/7	SIG10007.D
Level 5	STD1 240-174339/8	SIG10008.D
Level 6	STD2 240-174339/9	SIG10009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	16800580 13057898	16587290 11632999	15446905	14466298	Ave		14665328.3				13.9		20.0			
PCB-1232 Peak 2	11598800 9634169	13194520 8931256	11387330	10824444	Ave		10928419.8				13.9		20.0			
PCB-1232 Peak 3	27102640 21074914	26537850 19887486	23332520	23154556	Ave		23514994.3				12.2		20.0			
PCB-1232 Peak 4	11548660 9735208	11833940 8997847	9980205	10369868	Ave		10410954.6				10.5		20.0			
PCB-1232 Peak 5	10588720 8753756	9911760 8135504	9507600	9284666	Ave		9363667.67				9.2		20.0			
PCB-1262 Peak 1	13239120 9917983	12017730 9392096	11298965	10716726	Ave		11097103.3				12.7		20.0			
PCB-1262 Peak 2	17901100 12743274	16213810 12515387	15164530	14085122	Ave		14770537.2				14.1		20.0			
PCB-1262 Peak 3	18714120 14469921	17474190 14264584	16947120	15853068	Ave		16287167.2				10.7		20.0			
PCB-1262 Peak 4	36131580 28988498	35810580 29174505	33412125	31340252	Ave		32476256.7				9.7		20.0			
PCB-1262 Peak 5	14213820 11198768	14268320 11018097	13112180	12319828	Ave		12688502.2				11.2		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 15:41 Calibration End Date: 03/30/2015 16:58 Calibration ID: 27527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/4	SIG10004.D
Level 2	STD01 240-174339/5	SIG10005.D
Level 3	STD02 240-174339/6	SIG10006.D
Level 4	STD05 240-174339/7	SIG10007.D
Level 5	STD1 240-174339/8	SIG10008.D
Level 6	STD2 240-174339/9	SIG10009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	840029 23265998	1658729	3089381	7233149	13057898	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	579940 17862511	1319452	2277466	5412222	9634169	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	1355132 39774971	2653785	4666504	11577278	21074914	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	577433 17995693	1183394	1996041	5184934	9735208	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	529436 16271008	991176	1901520	4642333	8753756	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 1	Ave	661956 18784192	1201773	2259793	5358363	9917983	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 2	Ave	895055 25030774	1621381	3032906	7042561	12743274	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 3	Ave	935706 28529168	1747419	3389424	7926534	14469921	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 4	Ave	1806579 58349010	3581058	6682425	15670126	28988498	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 5	Ave	710691 22036194	1426832	2622436	6159914	11198768	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average by Height

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10004.D
Lims ID: STD005 1232 1262
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 15:41:29 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-004
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:41 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:02:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.771	1.771	0.000	840029	0.0500	0.0573	
1	2.108	2.108	0.000	579940	0.0500	0.0531	
1	2.568	2.568	0.000	1355132	0.0500	0.0576	
1	2.703	2.703	0.000	577433	0.0500	0.0555	
1	3.132	3.132	0.000	529436	0.0500	0.0565	
		Average of Peak Amounts =				0.0560	
2	2.367	2.367	0.000	981800	0.0500	0.0597	
2	2.808	2.808	0.000	869952	0.0500	0.0636	
2	3.300	3.300	0.000	1578042	0.0500	0.0606	
2	3.449	3.449	0.000	793900	0.0500	0.0632	
2	4.092	4.092	0.000	588484	0.0500	0.0590	
		Average of Peak Amounts =				0.0612	
						RPD = 8.90	
9 PCB-1262							
1	4.422	4.422	0.000	661956H	0.0500	0.0597	
1	4.724	4.724	0.000	895055H	0.0500	0.0606	
1	5.140	5.140	0.000	935706H	0.0500	0.0575	
1	5.737	5.737	0.000	1806579H	0.0500	0.0556	
1	6.075	6.075	0.000	710691H	0.0500	0.0560	
		Average of Peak Amounts =				0.0579	
2	5.573	5.573	0.000	753299H	0.0500	0.0566	
2	6.052	6.052	0.000	998140H	0.0500	0.0544	
2	6.360	6.360	0.000	1041675H	0.0500	0.0565	
2	6.641	6.641	0.000	1873051H	0.0500	0.0532	
2	7.022	7.022	0.000	1249069H	0.0500	0.0550	
		Average of Peak Amounts =				0.0552	
						RPD = 4.78	

Reagents:

SG3262@.05PPM_00002 Amount Added: 1.00 Units: mL

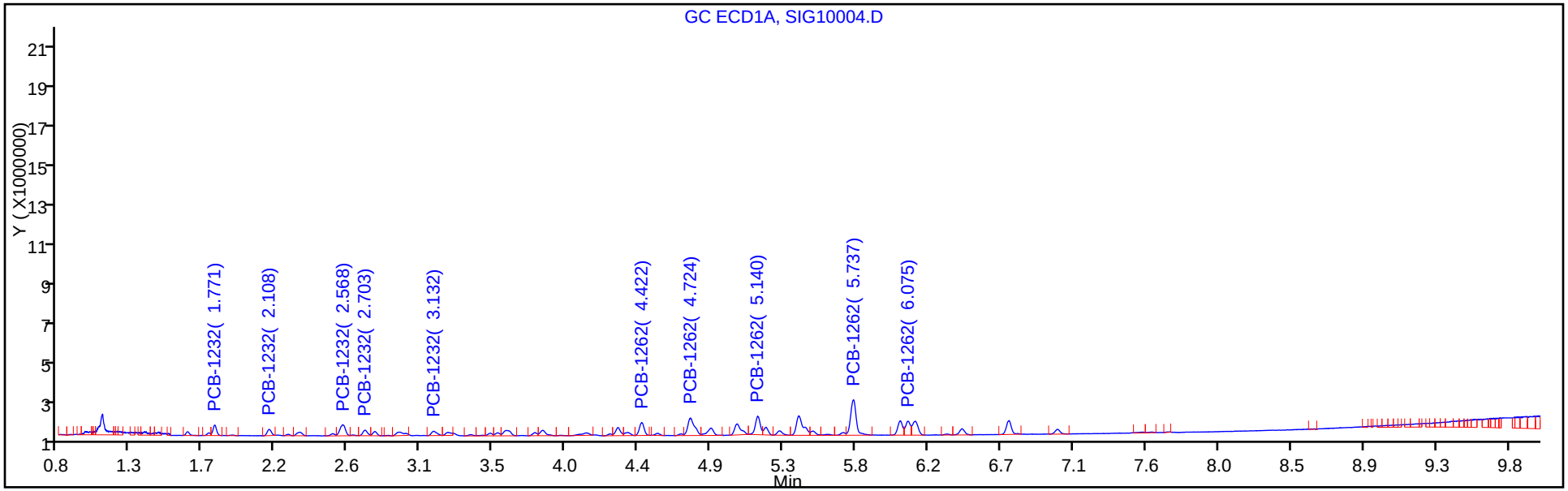
Report Date: 31-Mar-2015 06:13:43 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

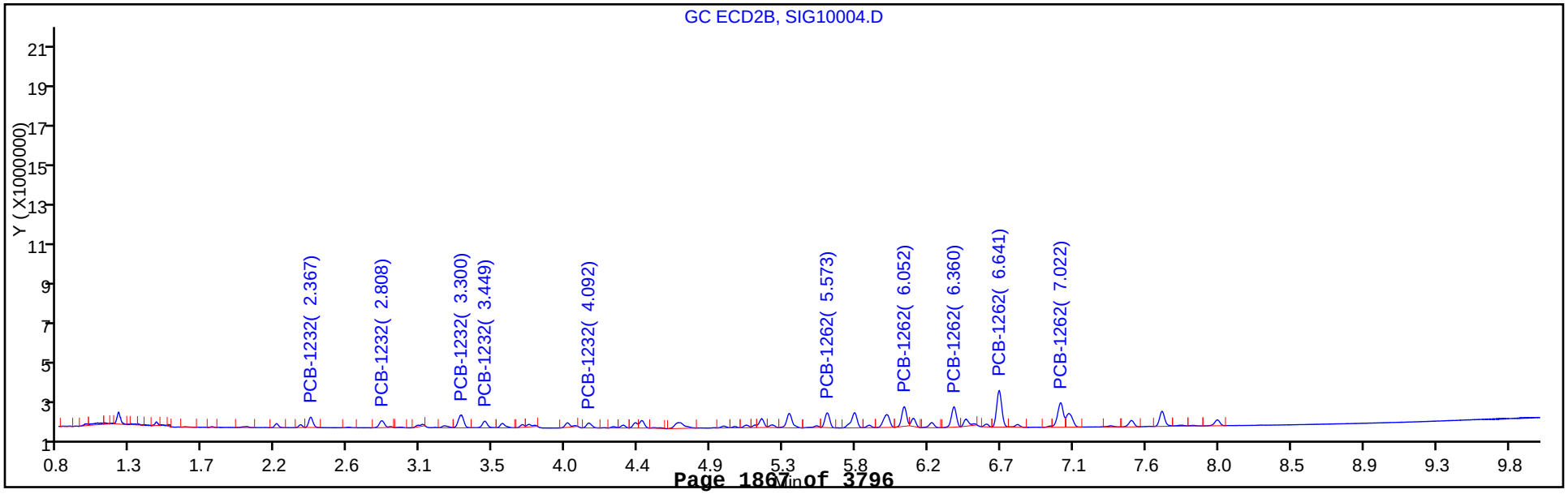
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10004.D

Injection Date:	30-Mar-2015 15:41:29	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1232 1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10005.D
Lims ID: STD01 1232 1262
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 15:57:00 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-005
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:43 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:03:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.772	1.771	0.001	1658729	0.1000	0.1131	
1	2.110	2.108	0.002	1319452	0.1000	0.1207	
1	2.568	2.568	0.000	2653785	0.1000	0.1129	
1	2.706	2.703	0.003	1183394	0.1000	0.1137	
1	3.131	3.132	-0.001	991176	0.1000	0.1059	
		Average of Peak Amounts =				0.1132	
2	2.368	2.367	0.001	1899568	0.1000	0.1154	
2	2.809	2.808	0.001	1565384	0.1000	0.1144	
2	3.300	3.300	0.000	2900061	0.1000	0.1114	
2	3.449	3.449	0.000	1486906	0.1000	0.1183	
2	4.093	4.092	0.001	1069612	0.1000	0.1073	
		Average of Peak Amounts =				0.1134	
						RPD = 0.11	
9 PCB-1262							
1	4.423	4.422	0.001	1201773H	0.1000	0.1083	
1	4.724	4.724	0.000	1621381H	0.1000	0.1098	
1	5.143	5.140	0.003	1747419H	0.1000	0.1073	
1	5.737	5.737	0.000	3581058H	0.1000	0.1103	
1	6.076	6.075	0.001	1426832H	0.1000	0.1125	
		Average of Peak Amounts =				0.1096	
2	5.573	5.573	0.000	1415480H	0.1000	0.1064	
2	6.050	6.052	-0.002	2001483H	0.1000	0.1092	
2	6.360	6.360	0.000	1951728H	0.1000	0.1059	
2	6.640	6.641	-0.001	3632999H	0.1000	0.1032	
2	7.022	7.022	0.000	2408530H	0.1000	0.1060	
		Average of Peak Amounts =				0.1062	
						RPD = 3.21	

Reagents:

SG3262@0.1PPM_00002 Amount Added: 1.00 Units: mL

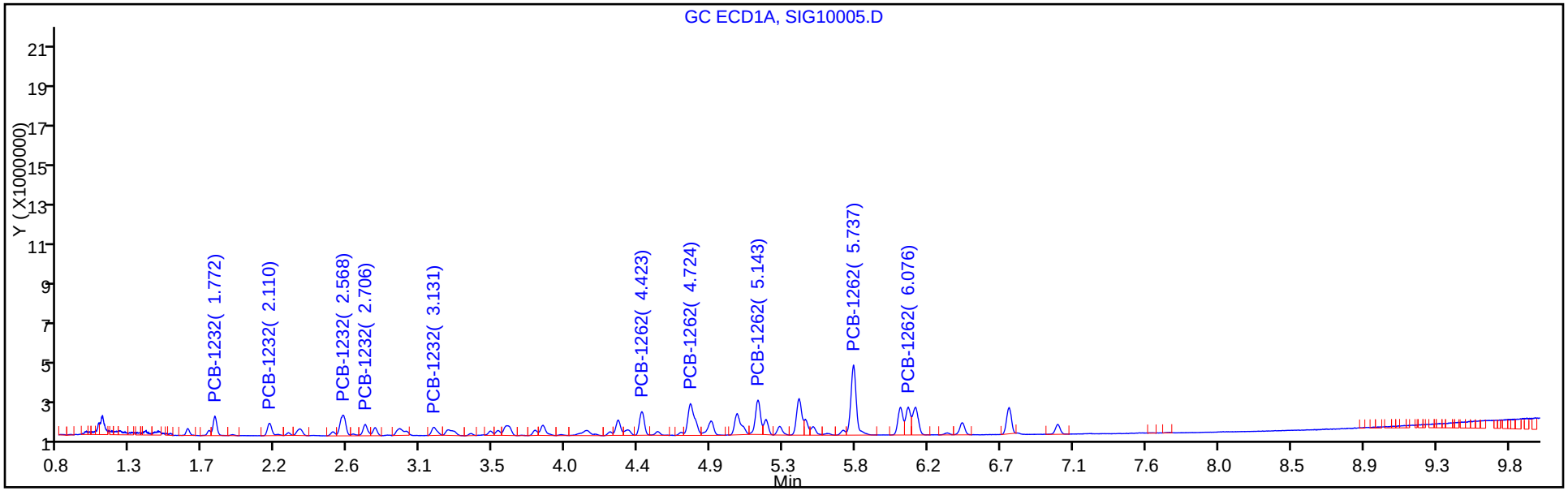
Report Date: 31-Mar-2015 06:13:44 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

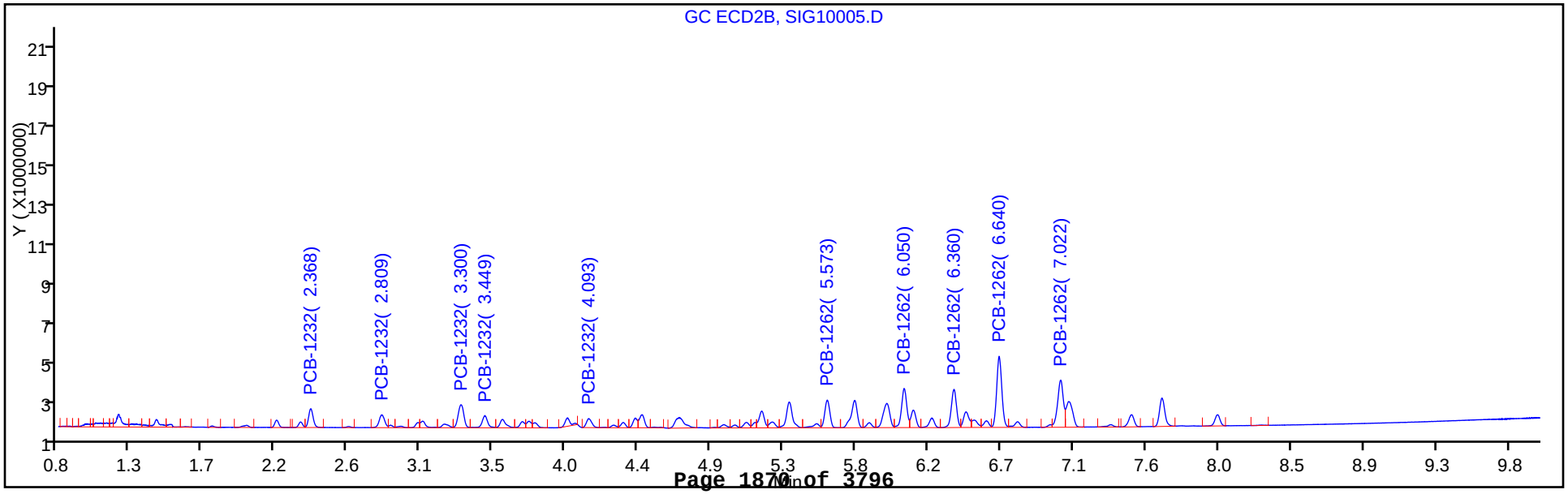
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10005.D

Injection Date:	30-Mar-2015 15:57:00	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1232 1262			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10006.D
Lims ID: STD02 1232 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 16:12:28 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-006
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:45 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.771	1.771	0.000	3089381	0.2000	0.2107	
1	2.109	2.108	0.001	2277466	0.2000	0.2084	
1	2.566	2.568	-0.002	4666504	0.2000	0.1984	
1	2.704	2.703	0.001	1996041	0.2000	0.1917	
1	3.130	3.132	-0.002	1901520	0.2000	0.2031	
		Average of Peak Amounts =				0.2025	
2	2.367	2.367	0.000	3264663	0.2000	0.1984	
2	2.809	2.808	0.001	2748813	0.2000	0.2008	
2	3.300	3.300	0.000	5207790	0.2000	0.2001	
2	3.448	3.449	-0.001	2510495	0.2000	0.1998	
2	4.092	4.092	0.000	2111923	0.2000	0.2118	
		Average of Peak Amounts =				0.2022	
						RPD = 0.14	
9 PCB-1262							
1	4.422	4.422	0.000	2259793H	0.2000	0.2036	
1	4.725	4.724	0.001	3032906H	0.2000	0.2053	
1	5.144	5.140	0.004	3389424H	0.2000	0.2081	
1	5.735	5.737	-0.002	6682425H	0.2000	0.2058	
1	6.077	6.075	0.002	2622436H	0.2000	0.2067	
		Average of Peak Amounts =				0.2059	
2	5.574	5.573	0.001	2791277H	0.2000	0.2099	
2	6.050	6.052	-0.002	3685382H	0.2000	0.2010	
2	6.360	6.360	0.000	3674138H	0.2000	0.1993	
2	6.640	6.641	-0.001	6877007H	0.2000	0.1954	
2	7.021	7.022	-0.001	4542410H	0.2000	0.2000	
		Average of Peak Amounts =				0.2011	
						RPD = 2.34	

Reagents:

SG3262@.2PPM_00002 Amount Added: 1.00 Units: mL

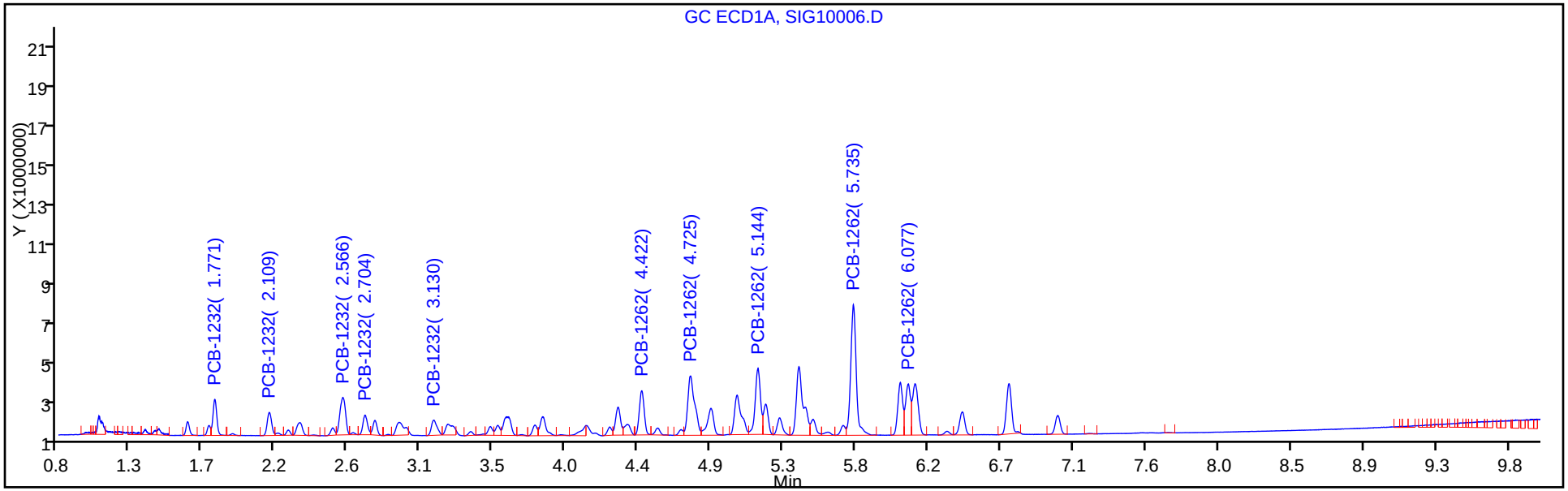
Report Date: 31-Mar-2015 06:13:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

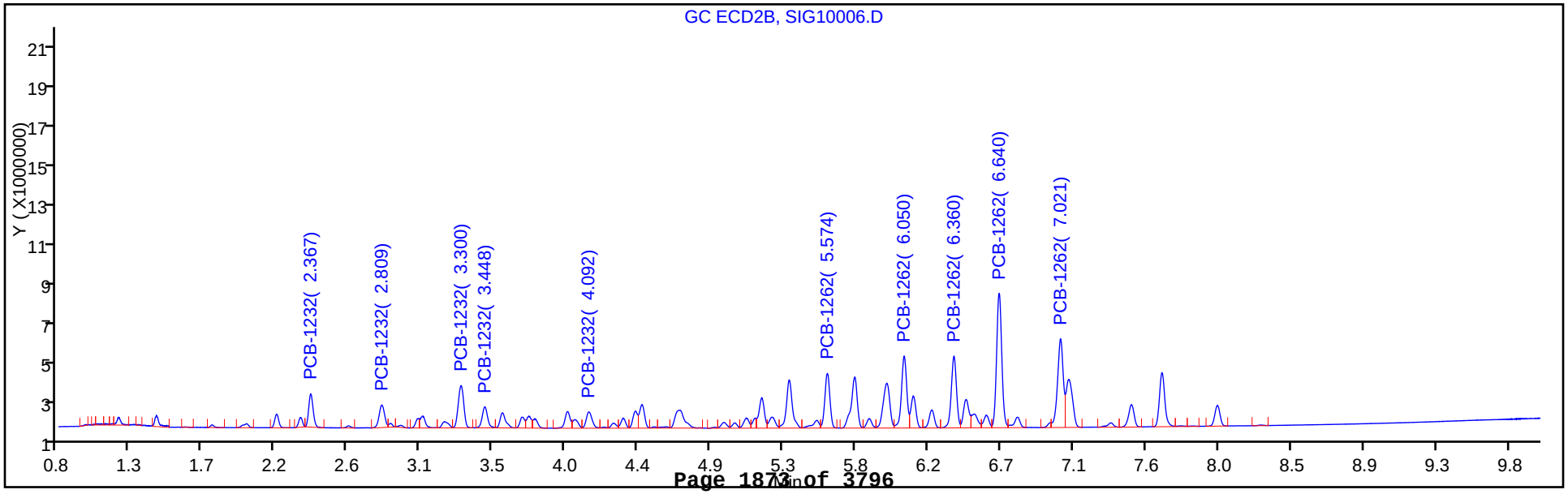
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10006.D

Injection Date:	30-Mar-2015 16:12:28	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1232 1262			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10007.D
Lims ID: STD05 1232 1262
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 16:27:54 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-007
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:48 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.773	1.771	0.002	7233149	0.5000	0.4932	
1	2.111	2.108	0.003	5412222	0.5000	0.4952	
1	2.570	2.568	0.002	11577278	0.5000	0.4923	
1	2.705	2.703	0.002	5184934	0.5000	0.4980	
1	3.133	3.132	0.001	4642333	0.5000	0.4958	
		Average of Peak Amounts =				0.4949	
2	2.367	2.367	0.000	7969401	0.5000	0.4842	
2	2.808	2.808	0.000	6500598	0.5000	0.4750	
2	3.301	3.300	0.001	12298801	0.5000	0.4726	
2	3.448	3.449	-0.001	5806181	0.5000	0.4620	
2	4.095	4.092	0.003	4830424	0.5000	0.4844	
		Average of Peak Amounts =				0.4757	
						RPD = 3.97	
9 PCB-1262							
1	4.424	4.422	0.002	5358363H	0.5000	0.4829	
1	4.725	4.724	0.001	7042561H	0.5000	0.4768	
1	5.143	5.140	0.003	7926534H	0.5000	0.4867	
1	5.736	5.737	-0.001	15670126H	0.5000	0.4825	
1	6.075	6.075	0.000	6159914H	0.5000	0.4855	
		Average of Peak Amounts =				0.4829	
2	5.575	5.573	0.002	6380050H	0.5000	0.4797	
2	6.052	6.052	0.000	8893439H	0.5000	0.4851	
2	6.361	6.360	0.001	8921079H	0.5000	0.4840	
2	6.641	6.641	0.000	17579172H	0.5000	0.4995	
2	7.023	7.022	0.001	11150612H	0.5000	0.4909	
		Average of Peak Amounts =				0.4879	
						RPD = 1.03	

Reagents:

SG3262@0.5PPM_00004 Amount Added: 1.00 Units: mL

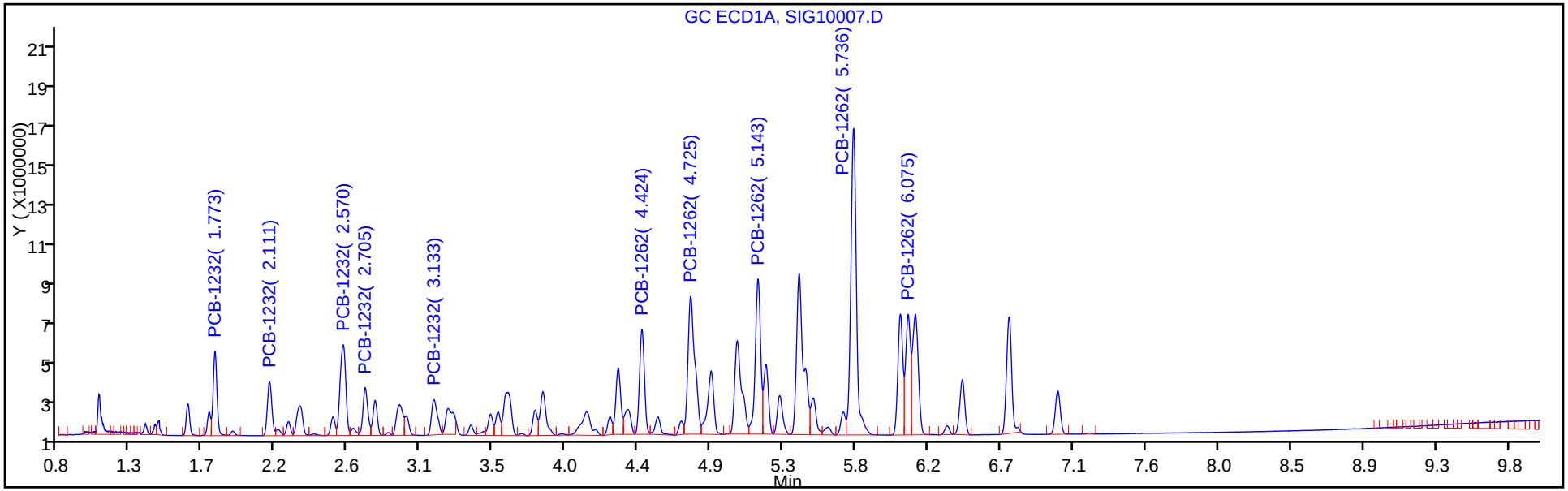
Report Date: 31-Mar-2015 06:13:49 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

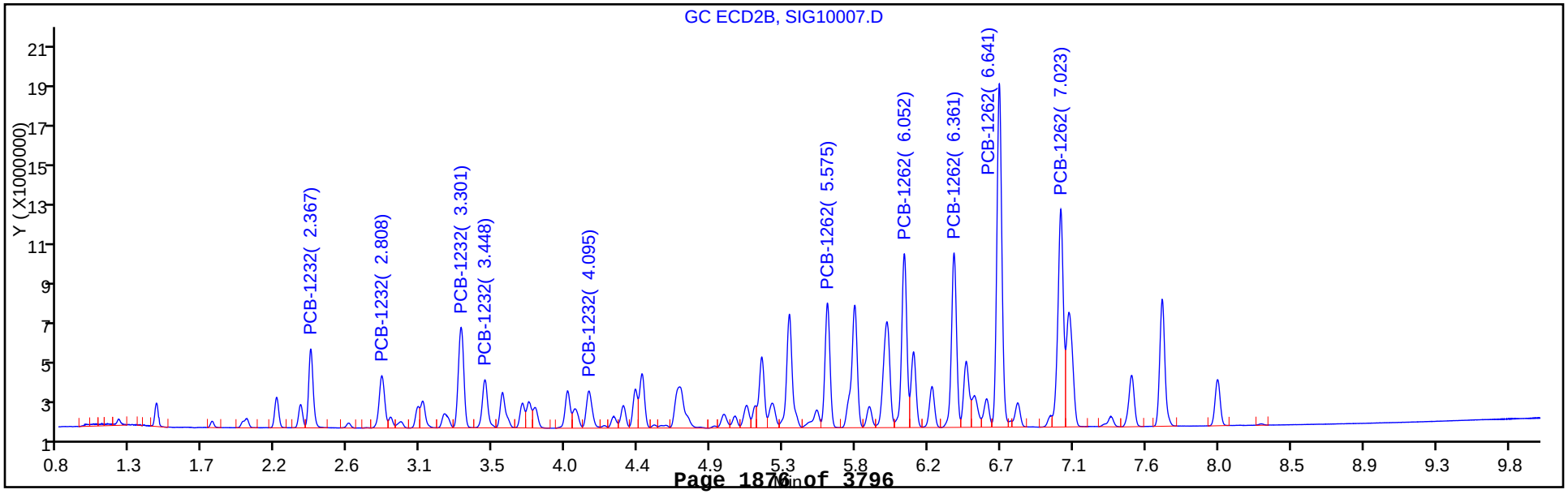
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10007.D

Injection Date:	30-Mar-2015 16:27:54	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1232 1262			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10008.D
Lims ID: STD1 1232 1262
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 16:43:22 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-008
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:50 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.772	1.771	0.001	13057898	1.00	0.8904	
1	2.110	2.108	0.002	9634169	1.00	0.8816	
1	2.568	2.568	0.000	21074914	1.00	0.8962	
1	2.706	2.703	0.003	9735208	1.00	0.9351	
1	3.132	3.132	0.000	8753756	1.00	0.9349	
		Average of Peak Amounts =				0.9076	
2	2.368	2.367	0.001	14401649	1.00	0.8750	
2	2.809	2.808	0.001	11585089	1.00	0.8464	
2	3.300	3.300	0.000	22712675	1.00	0.8728	
2	3.449	3.449	0.000	10632437	1.00	0.8460	
2	4.094	4.092	0.002	8911369	1.00	0.8937	
		Average of Peak Amounts =				0.8668	
						RPD = 4.60	
9 PCB-1262							
1	4.423	4.422	0.001	9917983H	1.00	0.8937	
1	4.725	4.724	0.001	12743274H	1.00	0.8627	
1	5.144	5.140	0.004	14469921H	1.00	0.8884	
1	5.736	5.737	-0.001	28988498H	1.00	0.8926	
1	6.076	6.075	0.001	11198768H	1.00	0.8826	
		Average of Peak Amounts =				0.8840	
2	5.575	5.573	0.002	11722061H	1.00	0.8814	
2	6.052	6.052	0.000	16880040H	1.00	0.9208	
2	6.359	6.360	-0.001	17003668H	1.00	0.9225	
2	6.639	6.641	-0.002	33627131H	1.00	0.9555	
2	7.022	7.022	0.000	20804806H	1.00	0.9159	
		Average of Peak Amounts =				0.9192	
						RPD = 3.91	

Reagents:

SG3262@1.0PPM_00002 Amount Added: 1.00 Units: mL

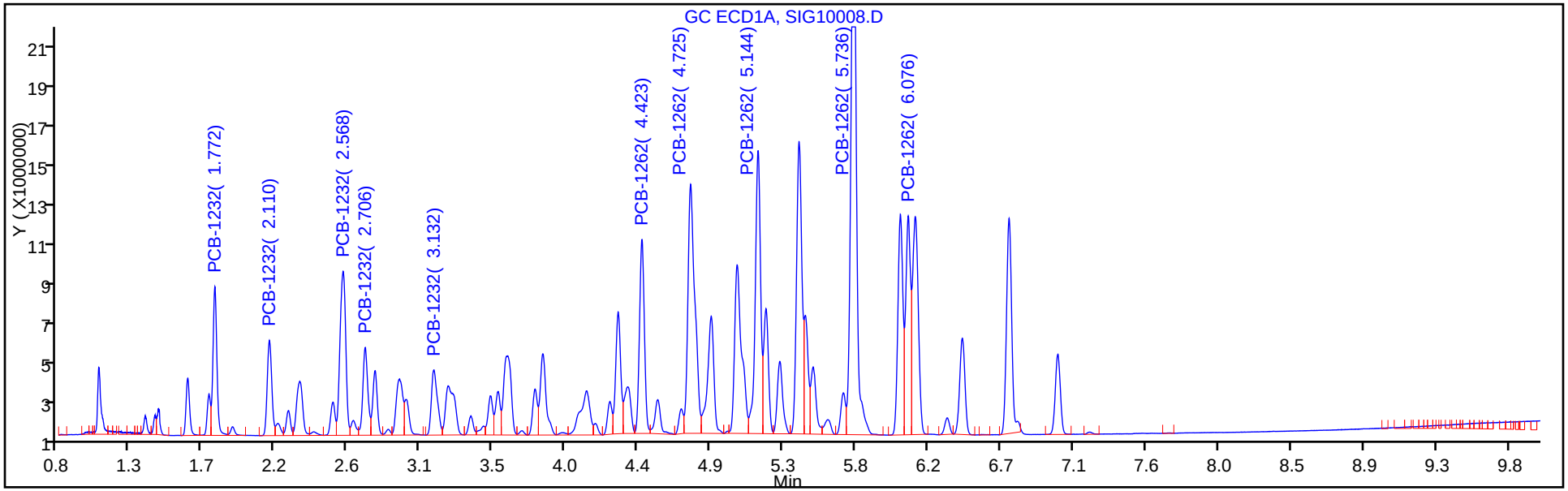
Report Date: 31-Mar-2015 06:13:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

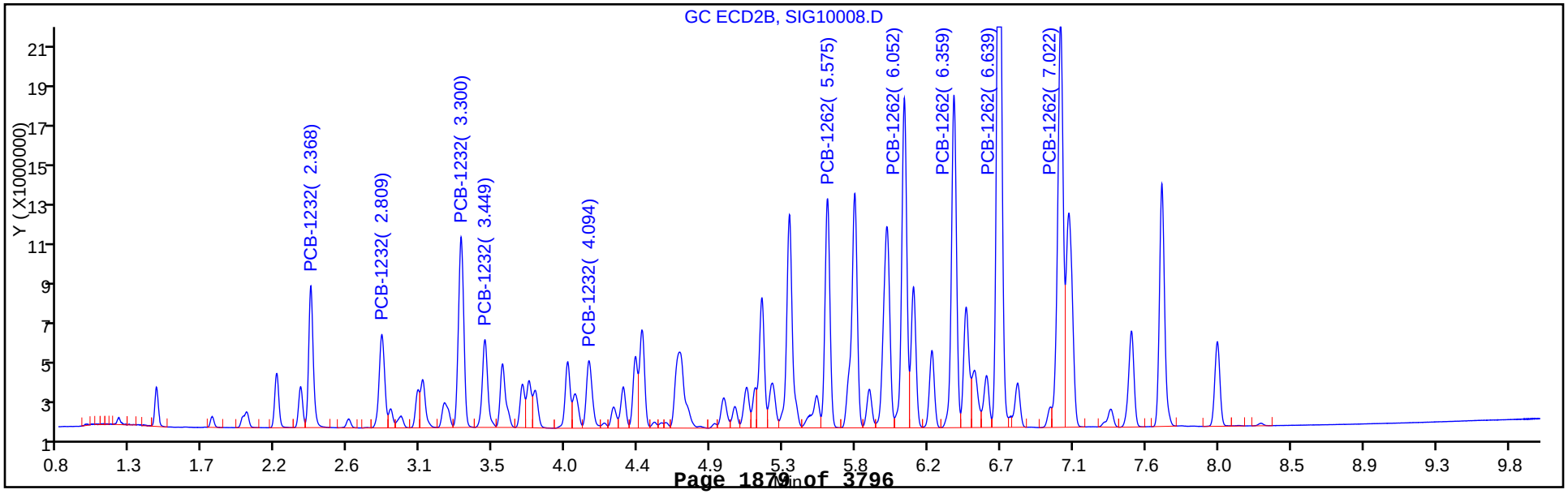
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10008.D

Injection Date:	30-Mar-2015 16:43:22	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1232 1262			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10009.D
Lims ID: STD2 1232 1262
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 16:58:57 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-009
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:52 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.772	1.771	0.001	23265998	2.00	1.59	
1	2.110	2.108	0.002	17862511	2.00	1.63	
1	2.568	2.568	0.000	39774971	2.00	1.69	
1	2.704	2.703	0.001	17995693	2.00	1.73	
1	3.131	3.132	-0.001	16271008	2.00	1.74	
		Average of Peak Amounts =				1.68	
2	2.367	2.367	0.000	26909776	2.00	1.64	
2	2.808	2.808	0.000	21475050	2.00	1.57	
2	3.300	3.300	0.000	44434094	2.00	1.71	
2	3.449	3.449	0.000	19720090	2.00	1.57	
2	4.094	4.092	0.002	16456950	2.00	1.65	
		Average of Peak Amounts =				1.63	
						RPD = 3.00	
9 PCB-1262							
1	4.423	4.422	0.001	18784192H	2.00	1.69	
1	4.724	4.724	0.000	25030774H	2.00	1.69	
1	5.144	5.140	0.004	28529168H	2.00	1.75	
1	5.737	5.737	0.000	58349010H	2.00	1.80	
1	6.076	6.075	0.001	22036194H	2.00	1.74	
		Average of Peak Amounts =				1.73	
2	5.574	5.573	0.001	24266284H	2.00	1.82	
2	6.052	6.052	0.000	33840437H	2.00	1.85	
2	6.361	6.360	0.001	34041523H	2.00	1.85	
2	6.641	6.641	0.000	68375289H	2.00	1.94	
2	7.022	7.022	0.000	42813683H	2.00	1.88	
		Average of Peak Amounts =				1.87	
						RPD = 7.47	

Reagents:

SG3262@2.0ppm_00002 Amount Added: 1.00 Units: mL

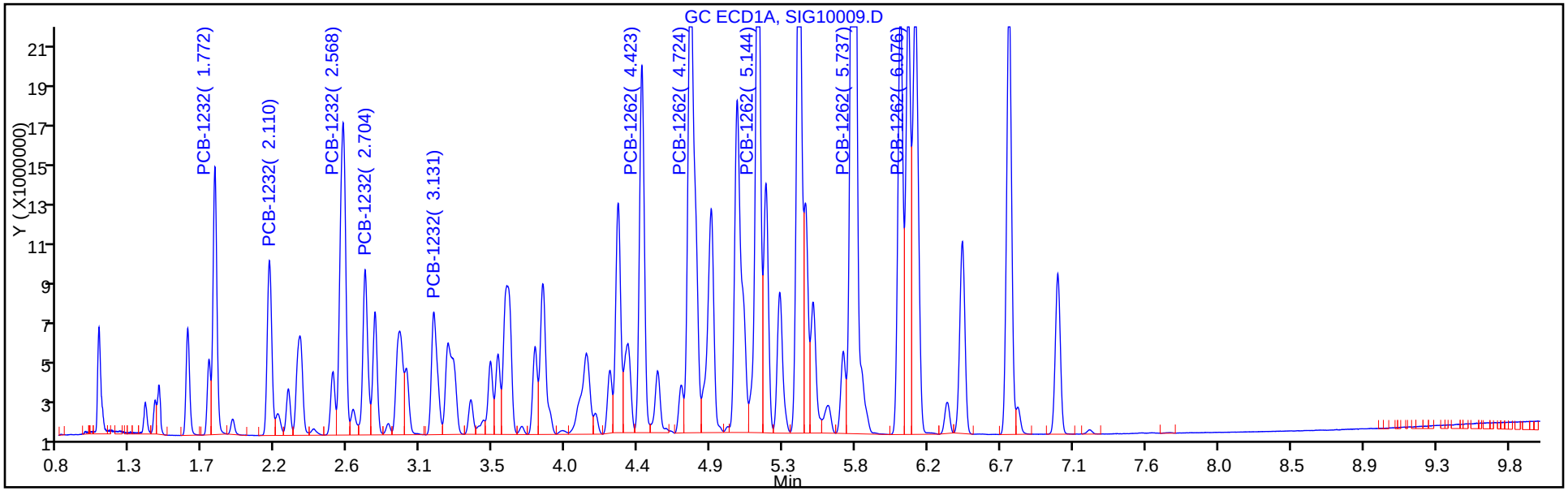
Report Date: 31-Mar-2015 06:13:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

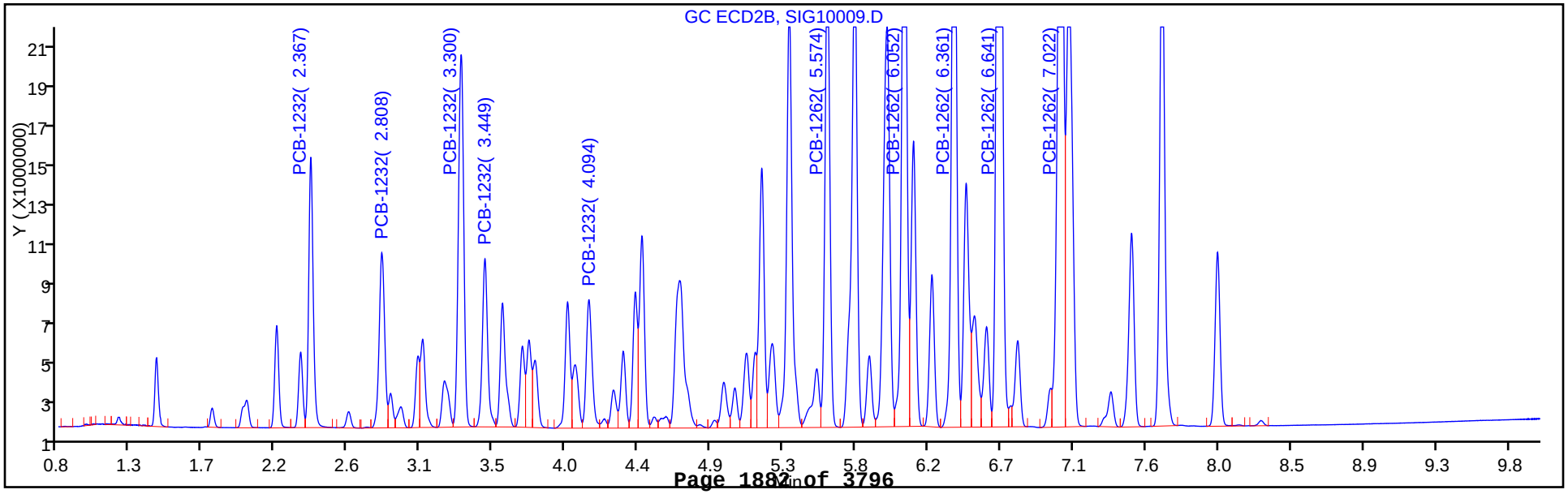
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10009.D

Injection Date:	30-Mar-2015 16:58:57	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1232 1262			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 15:41 Calibration End Date: 03/30/2015 16:58 Calibration ID: 27528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/4	SIG10004.D
Level 2	STD01 240-174339/5	SIG10005.D
Level 3	STD02 240-174339/6	SIG10006.D
Level 4	STD05 240-174339/7	SIG10007.D
Level 5	STD1 240-174339/8	SIG10008.D
Level 6	STD2 240-174339/9	SIG10009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	2.367	2.368	2.367	2.367	2.368	2.367					2.317 - 2.417	2.367
PCB-1232 Peak 2	2.808	2.809	2.809	2.808	2.809	2.808					2.758 - 2.858	2.809
PCB-1232 Peak 3	3.300	3.300	3.300	3.301	3.300	3.300					3.250 - 3.350	3.300
PCB-1232 Peak 4	3.449	3.449	3.448	3.448	3.449	3.449					3.399 - 3.499	3.449
PCB-1232 Peak 5	4.092	4.093	4.092	4.095	4.094	4.094					4.042 - 4.142	4.093
PCB-1262 Peak 1	5.573	5.573	5.574	5.575	5.575	5.574					5.523 - 5.623	5.574
PCB-1262 Peak 2	6.052	6.050	6.050	6.052	6.052	6.052					6.002 - 6.102	6.051
PCB-1262 Peak 3	6.360	6.360	6.360	6.361	6.359	6.361					6.310 - 6.410	6.360
PCB-1262 Peak 4	6.641	6.640	6.640	6.641	6.639	6.641					6.591 - 6.691	6.640
PCB-1262 Peak 5	7.022	7.022	7.021	7.023	7.022	7.022					6.972 - 7.072	7.022

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 15:41 Calibration End Date: 03/30/2015 16:58 Calibration ID: 27528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/4	SIG10004.D
Level 2	STD01 240-174339/5	SIG10005.D
Level 3	STD02 240-174339/6	SIG10006.D
Level 4	STD05 240-174339/7	SIG10007.D
Level 5	STD1 240-174339/8	SIG10008.D
Level 6	STD2 240-174339/9	SIG10009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	19636000 14401649	18995680 13454888	16323315	15938802	Ave		16458389.0				14.9		20.0			
PCB-1232 Peak 2	17399040 11585089	15653840 10737525	13744065	13001196	Ave		13686792.5				18.3		20.0			
PCB-1232 Peak 3	31560840 22712675	29000610 22217047	26038950	24597602	Ave		26021287.3				14.1		20.0			
PCB-1232 Peak 4	15878000 10632437	14869060 9860045	12552475	11612362	Ave		12567396.5				18.9		20.0			
PCB-1232 Peak 5	11769680 8911369	10696120 8228475	10559615	9660848	Ave		9971017.83				13.0		20.0			
PCB-1262 Peak 1	15065980 11722061	14154800 12133142	13956385	12760100	Ave		13298744.7				9.8		20.0			
PCB-1262 Peak 2	19962800 16880040	20014830 16920219	18426910	17786878	Ave		18331946.1				7.7		20.0			
PCB-1262 Peak 3	20833500 17003668	19517280 17020762	18370690	17842158	Ave		18431342.9				8.2		20.0			
PCB-1262 Peak 4	37461020 33627131	36329990 34187645	34385035	35158344	Ave		35191527.4				4.1		20.0			
PCB-1262 Peak 5	24981380 20804806	24085300 21406842	22712050	22301224	Ave		22715266.9				7.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 15:41 Calibration End Date: 03/30/2015 16:58 Calibration ID: 27528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/4	SIG10004.D
Level 2	STD01 240-174339/5	SIG10005.D
Level 3	STD02 240-174339/6	SIG10006.D
Level 4	STD05 240-174339/7	SIG10007.D
Level 5	STD1 240-174339/8	SIG10008.D
Level 6	STD2 240-174339/9	SIG10009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	981800 26909776	1899568	3264663	7969401	14401649	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	869952 21475050	1565384	2748813	6500598	11585089	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	1578042 44434094	2900061	5207790	12298801	22712675	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	793900 19720090	1486906	2510495	5806181	10632437	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	588484 16456950	1069612	2111923	4830424	8911369	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 1	Ave	753299 24266284	1415480	2791277	6380050	11722061	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 2	Ave	998140 33840437	2001483	3685382	8893439	16880040	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 3	Ave	1041675 34041523	1951728	3674138	8921079	17003668	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 4	Ave	1873051 68375289	3632999	6877007	17579172	33627131	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 5	Ave	1249069 42813683	2408530	4542410	11150612	20804806	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average by Height

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10004.D
Lims ID: STD005 1232 1262
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 15:41:29 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-004
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:41 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:02:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.771	1.771	0.000	840029	0.0500	0.0573	
1	2.108	2.108	0.000	579940	0.0500	0.0531	
1	2.568	2.568	0.000	1355132	0.0500	0.0576	
1	2.703	2.703	0.000	577433	0.0500	0.0555	
1	3.132	3.132	0.000	529436	0.0500	0.0565	
		Average of Peak Amounts =				0.0560	
2	2.367	2.367	0.000	981800	0.0500	0.0597	
2	2.808	2.808	0.000	869952	0.0500	0.0636	
2	3.300	3.300	0.000	1578042	0.0500	0.0606	
2	3.449	3.449	0.000	793900	0.0500	0.0632	
2	4.092	4.092	0.000	588484	0.0500	0.0590	
		Average of Peak Amounts =				0.0612	
						RPD = 8.90	
9 PCB-1262							
1	4.422	4.422	0.000	661956H	0.0500	0.0597	
1	4.724	4.724	0.000	895055H	0.0500	0.0606	
1	5.140	5.140	0.000	935706H	0.0500	0.0575	
1	5.737	5.737	0.000	1806579H	0.0500	0.0556	
1	6.075	6.075	0.000	710691H	0.0500	0.0560	
		Average of Peak Amounts =				0.0579	
2	5.573	5.573	0.000	753299H	0.0500	0.0566	
2	6.052	6.052	0.000	998140H	0.0500	0.0544	
2	6.360	6.360	0.000	1041675H	0.0500	0.0565	
2	6.641	6.641	0.000	1873051H	0.0500	0.0532	
2	7.022	7.022	0.000	1249069H	0.0500	0.0550	
		Average of Peak Amounts =				0.0552	
						RPD = 4.78	

Reagents:

SG3262@.05PPM_00002 Amount Added: 1.00 Units: mL

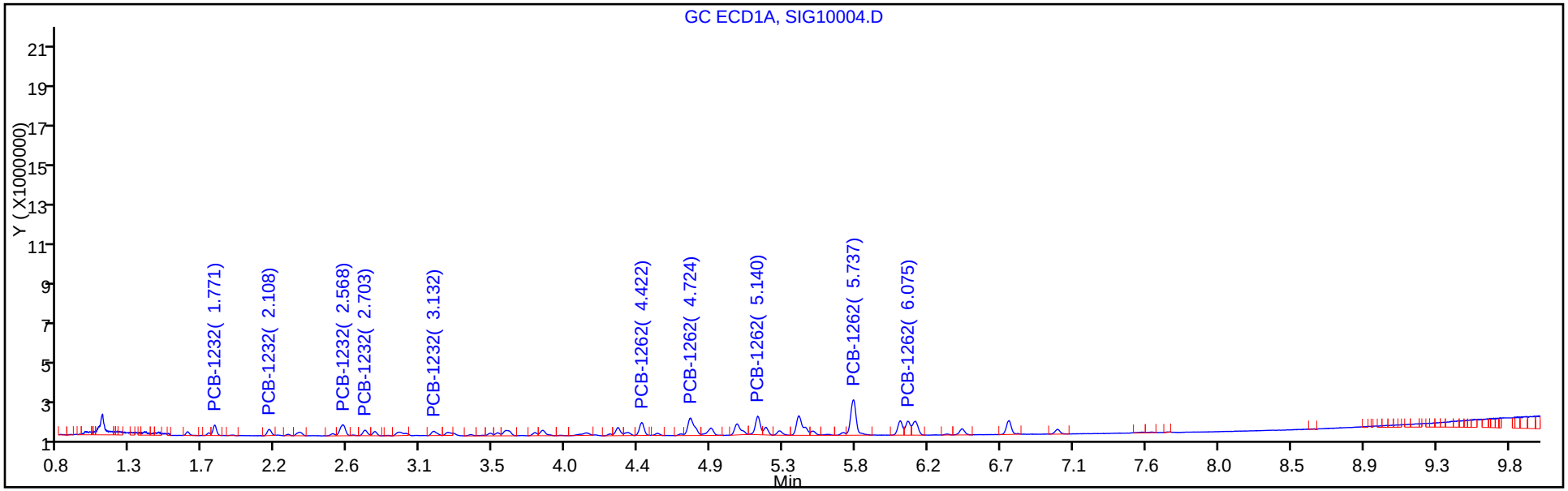
Report Date: 31-Mar-2015 06:13:43 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

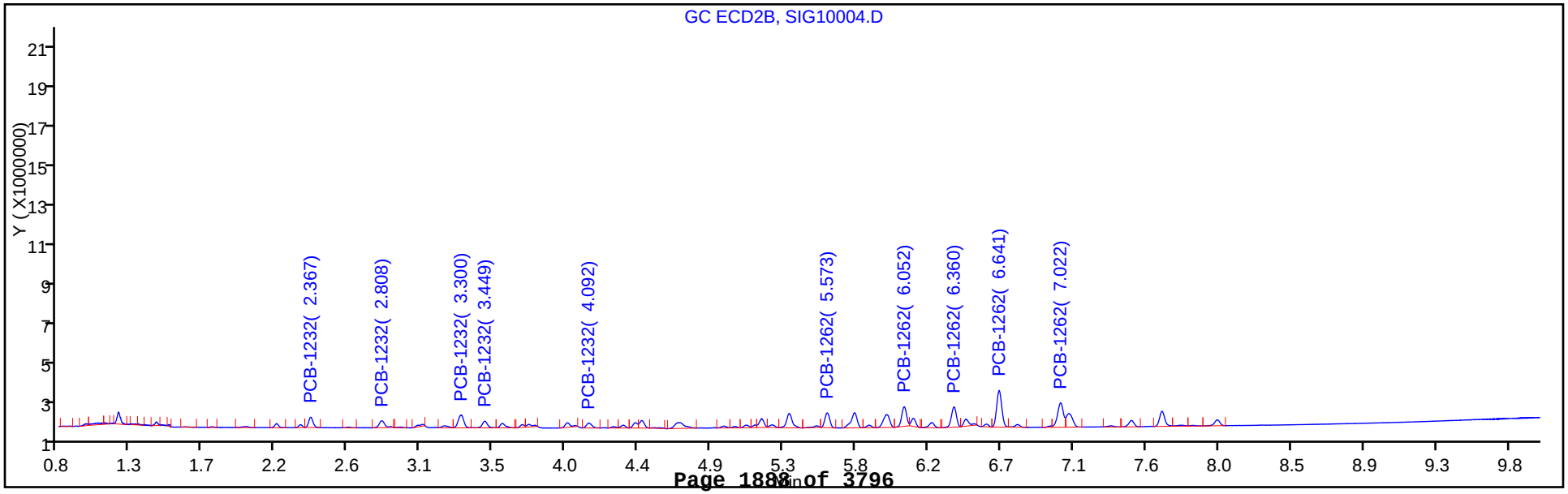
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10004.D

Injection Date:	30-Mar-2015 15:41:29	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1232 1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10005.D
Lims ID: STD01 1232 1262
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 15:57:00 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-005
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:43 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:03:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.772	1.771	0.001	1658729	0.1000	0.1131	
1	2.110	2.108	0.002	1319452	0.1000	0.1207	
1	2.568	2.568	0.000	2653785	0.1000	0.1129	
1	2.706	2.703	0.003	1183394	0.1000	0.1137	
1	3.131	3.132	-0.001	991176	0.1000	0.1059	
		Average of Peak Amounts =				0.1132	
2	2.368	2.367	0.001	1899568	0.1000	0.1154	
2	2.809	2.808	0.001	1565384	0.1000	0.1144	
2	3.300	3.300	0.000	2900061	0.1000	0.1114	
2	3.449	3.449	0.000	1486906	0.1000	0.1183	
2	4.093	4.092	0.001	1069612	0.1000	0.1073	
		Average of Peak Amounts =				0.1134	
						RPD = 0.11	
9 PCB-1262							
1	4.423	4.422	0.001	1201773H	0.1000	0.1083	
1	4.724	4.724	0.000	1621381H	0.1000	0.1098	
1	5.143	5.140	0.003	1747419H	0.1000	0.1073	
1	5.737	5.737	0.000	3581058H	0.1000	0.1103	
1	6.076	6.075	0.001	1426832H	0.1000	0.1125	
		Average of Peak Amounts =				0.1096	
2	5.573	5.573	0.000	1415480H	0.1000	0.1064	
2	6.050	6.052	-0.002	2001483H	0.1000	0.1092	
2	6.360	6.360	0.000	1951728H	0.1000	0.1059	
2	6.640	6.641	-0.001	3632999H	0.1000	0.1032	
2	7.022	7.022	0.000	2408530H	0.1000	0.1060	
		Average of Peak Amounts =				0.1062	
						RPD = 3.21	

Reagents:

SG3262@0.1PPM_00002 Amount Added: 1.00 Units: mL

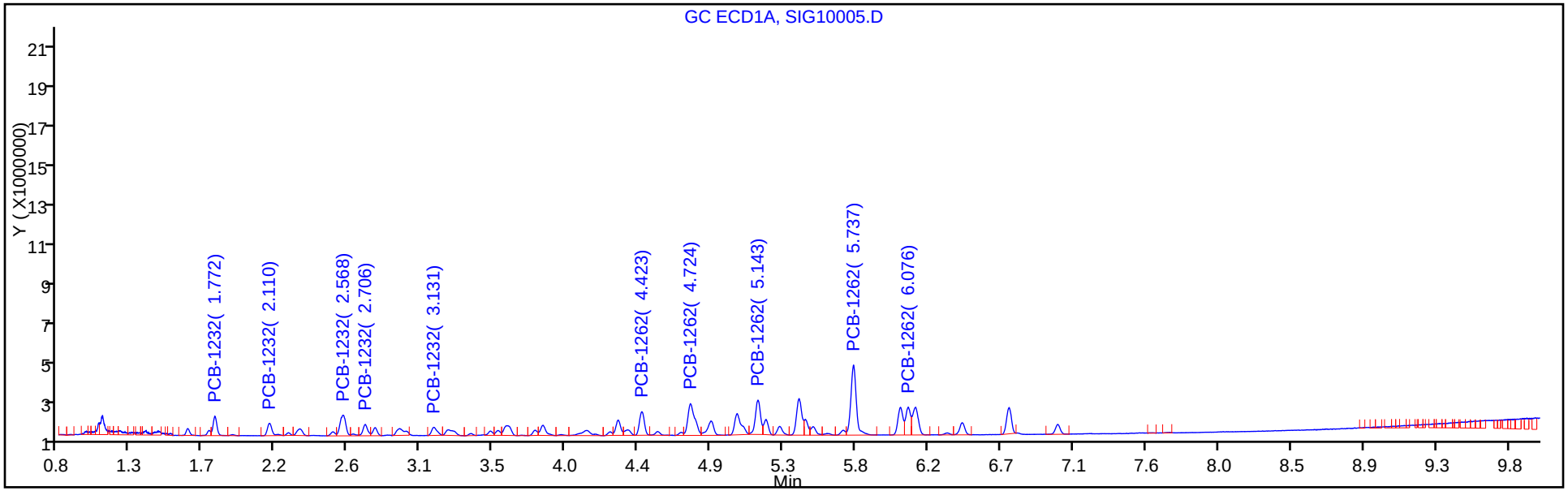
Report Date: 31-Mar-2015 06:13:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

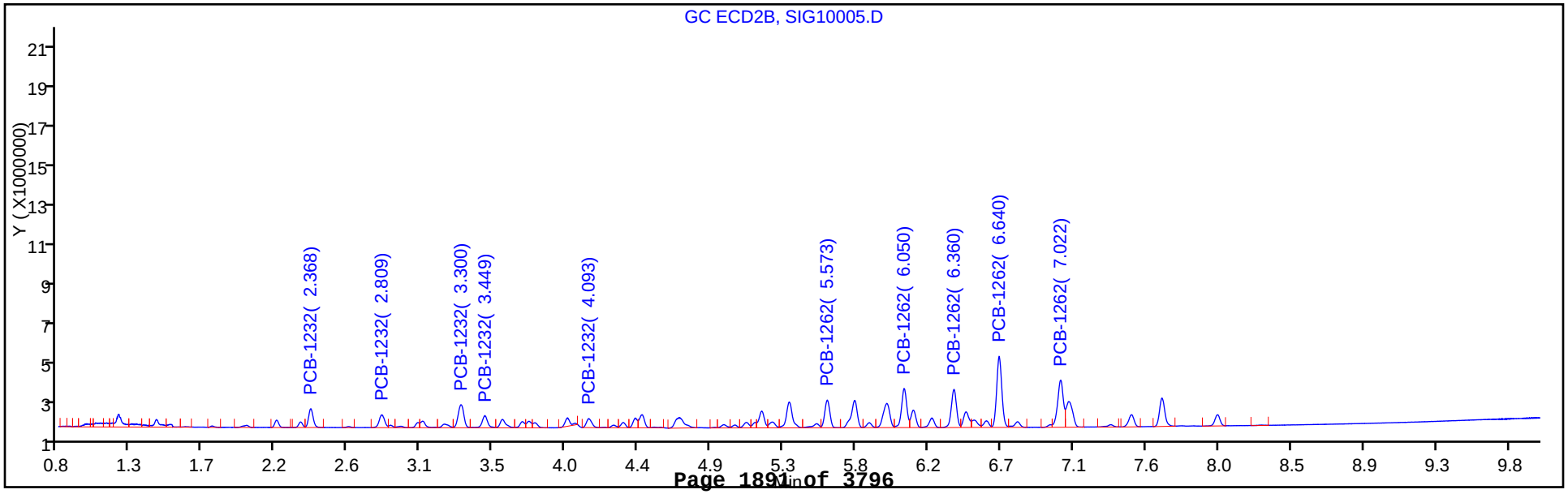
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10005.D

Injection Date:	30-Mar-2015 15:57:00	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1232 1262			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10006.D
Lims ID: STD02 1232 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 16:12:28 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-006
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:45 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.771	1.771	0.000	3089381	0.2000	0.2107	
1	2.109	2.108	0.001	2277466	0.2000	0.2084	
1	2.566	2.568	-0.002	4666504	0.2000	0.1984	
1	2.704	2.703	0.001	1996041	0.2000	0.1917	
1	3.130	3.132	-0.002	1901520	0.2000	0.2031	
		Average of Peak Amounts =				0.2025	
2	2.367	2.367	0.000	3264663	0.2000	0.1984	
2	2.809	2.808	0.001	2748813	0.2000	0.2008	
2	3.300	3.300	0.000	5207790	0.2000	0.2001	
2	3.448	3.449	-0.001	2510495	0.2000	0.1998	
2	4.092	4.092	0.000	2111923	0.2000	0.2118	
		Average of Peak Amounts =				0.2022	
						RPD = 0.14	
9 PCB-1262							
1	4.422	4.422	0.000	2259793H	0.2000	0.2036	
1	4.725	4.724	0.001	3032906H	0.2000	0.2053	
1	5.144	5.140	0.004	3389424H	0.2000	0.2081	
1	5.735	5.737	-0.002	6682425H	0.2000	0.2058	
1	6.077	6.075	0.002	2622436H	0.2000	0.2067	
		Average of Peak Amounts =				0.2059	
2	5.574	5.573	0.001	2791277H	0.2000	0.2099	
2	6.050	6.052	-0.002	3685382H	0.2000	0.2010	
2	6.360	6.360	0.000	3674138H	0.2000	0.1993	
2	6.640	6.641	-0.001	6877007H	0.2000	0.1954	
2	7.021	7.022	-0.001	4542410H	0.2000	0.2000	
		Average of Peak Amounts =				0.2011	
						RPD = 2.34	

Reagents:

SG3262@.2PPM_00002 Amount Added: 1.00 Units: mL

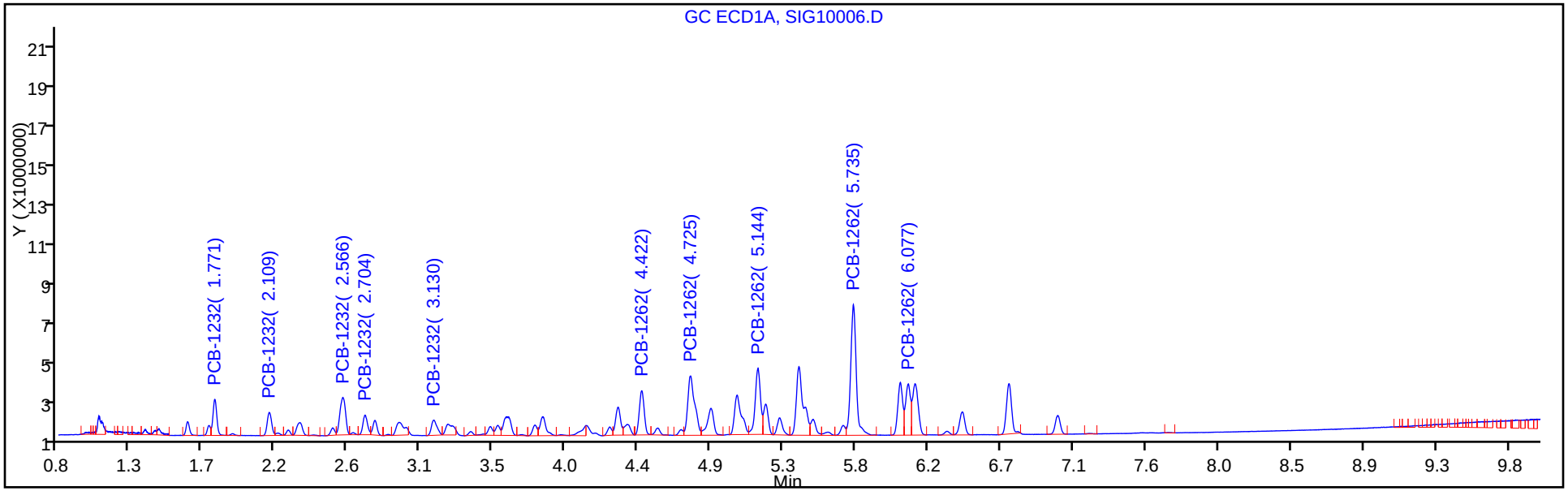
Report Date: 31-Mar-2015 06:13:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

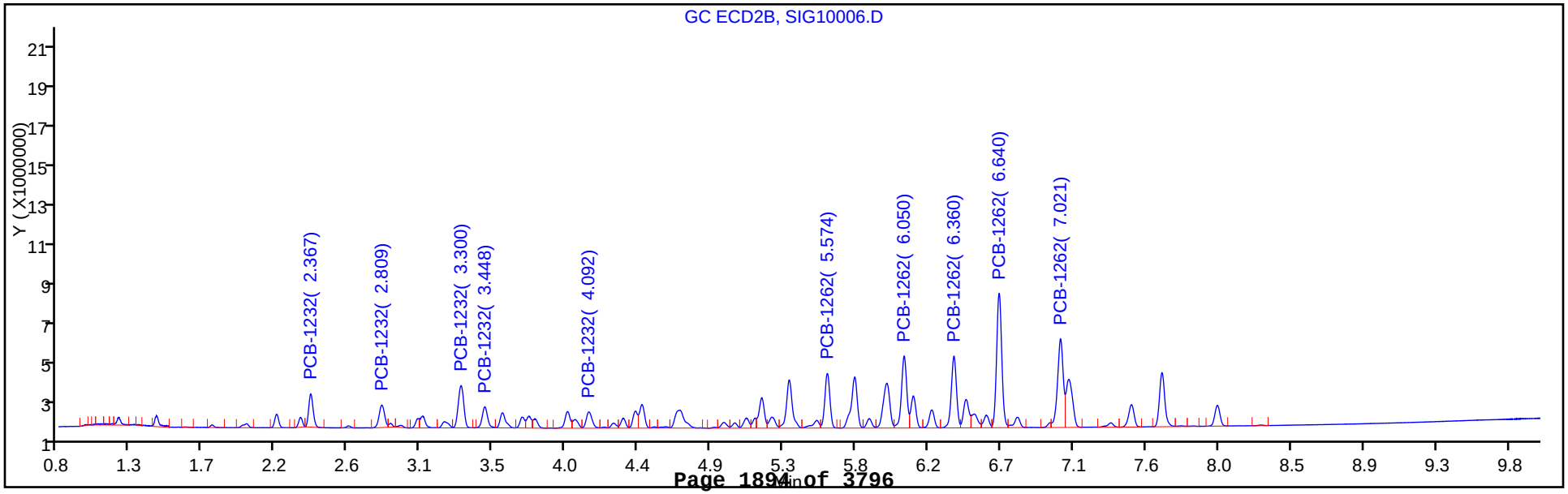
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10006.D

Injection Date:	30-Mar-2015 16:12:28	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1232 1262			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10007.D
Lims ID: STD05 1232 1262
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 16:27:54 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-007
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:48 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.773	1.771	0.002	7233149	0.5000	0.4932	
1	2.111	2.108	0.003	5412222	0.5000	0.4952	
1	2.570	2.568	0.002	11577278	0.5000	0.4923	
1	2.705	2.703	0.002	5184934	0.5000	0.4980	
1	3.133	3.132	0.001	4642333	0.5000	0.4958	
		Average of Peak Amounts =				0.4949	
2	2.367	2.367	0.000	7969401	0.5000	0.4842	
2	2.808	2.808	0.000	6500598	0.5000	0.4750	
2	3.301	3.300	0.001	12298801	0.5000	0.4726	
2	3.448	3.449	-0.001	5806181	0.5000	0.4620	
2	4.095	4.092	0.003	4830424	0.5000	0.4844	
		Average of Peak Amounts =				0.4757	
						RPD = 3.97	
9 PCB-1262							
1	4.424	4.422	0.002	5358363H	0.5000	0.4829	
1	4.725	4.724	0.001	7042561H	0.5000	0.4768	
1	5.143	5.140	0.003	7926534H	0.5000	0.4867	
1	5.736	5.737	-0.001	15670126H	0.5000	0.4825	
1	6.075	6.075	0.000	6159914H	0.5000	0.4855	
		Average of Peak Amounts =				0.4829	
2	5.575	5.573	0.002	6380050H	0.5000	0.4797	
2	6.052	6.052	0.000	8893439H	0.5000	0.4851	
2	6.361	6.360	0.001	8921079H	0.5000	0.4840	
2	6.641	6.641	0.000	17579172H	0.5000	0.4995	
2	7.023	7.022	0.001	11150612H	0.5000	0.4909	
		Average of Peak Amounts =				0.4879	
						RPD = 1.03	

Reagents:

SG3262@0.5PPM_00004 Amount Added: 1.00 Units: mL

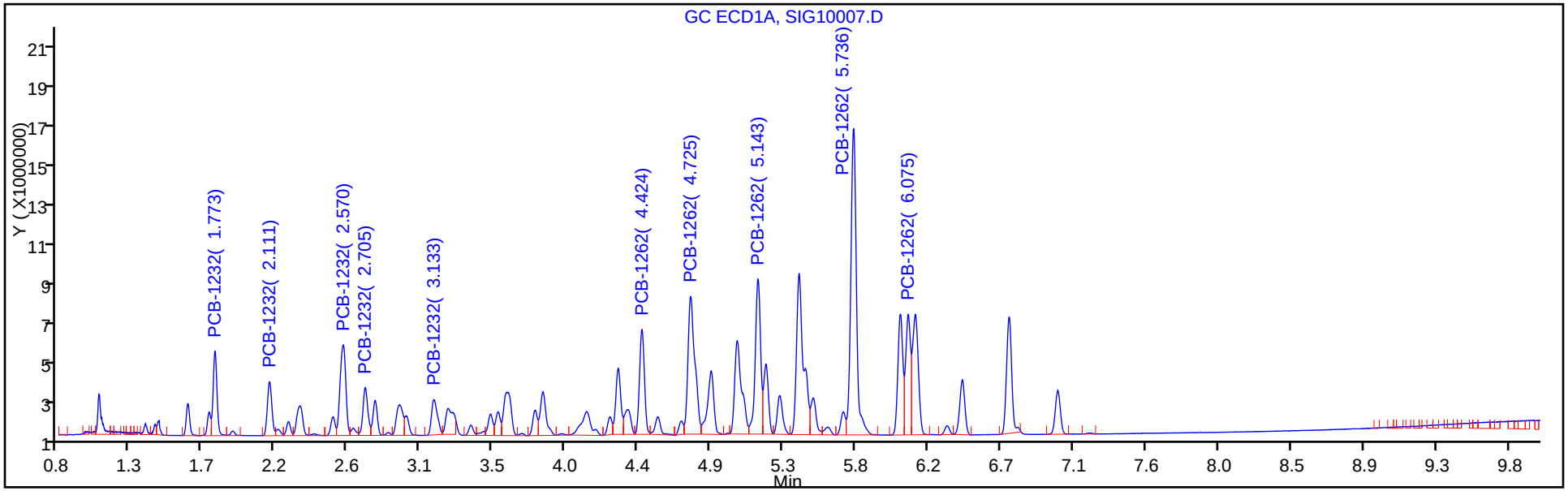
Report Date: 31-Mar-2015 06:13:49 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

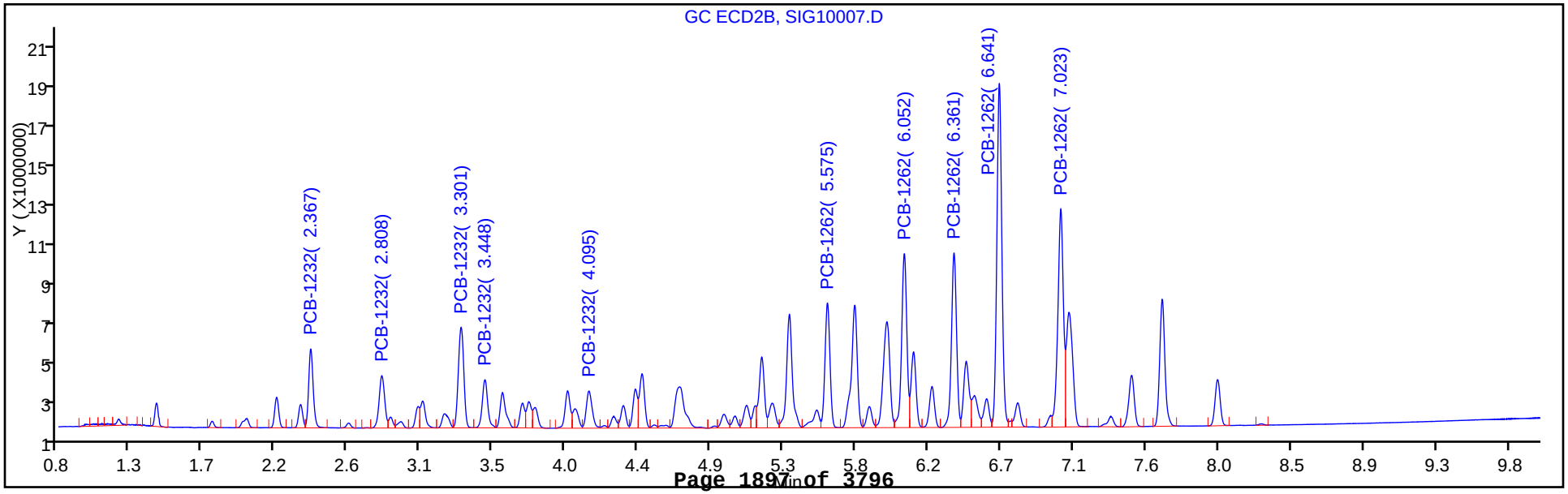
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10007.D

Injection Date:	30-Mar-2015 16:27:54	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1232 1262			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10008.D
Lims ID: STD1 1232 1262
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 16:43:22 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-008
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:50 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.772	1.771	0.001	13057898	1.00	0.8904	
1	2.110	2.108	0.002	9634169	1.00	0.8816	
1	2.568	2.568	0.000	21074914	1.00	0.8962	
1	2.706	2.703	0.003	9735208	1.00	0.9351	
1	3.132	3.132	0.000	8753756	1.00	0.9349	
		Average of Peak Amounts =				0.9076	
2	2.368	2.367	0.001	14401649	1.00	0.8750	
2	2.809	2.808	0.001	11585089	1.00	0.8464	
2	3.300	3.300	0.000	22712675	1.00	0.8728	
2	3.449	3.449	0.000	10632437	1.00	0.8460	
2	4.094	4.092	0.002	8911369	1.00	0.8937	
		Average of Peak Amounts =				0.8668	
						RPD = 4.60	
9 PCB-1262							
1	4.423	4.422	0.001	9917983H	1.00	0.8937	
1	4.725	4.724	0.001	12743274H	1.00	0.8627	
1	5.144	5.140	0.004	14469921H	1.00	0.8884	
1	5.736	5.737	-0.001	28988498H	1.00	0.8926	
1	6.076	6.075	0.001	11198768H	1.00	0.8826	
		Average of Peak Amounts =				0.8840	
2	5.575	5.573	0.002	11722061H	1.00	0.8814	
2	6.052	6.052	0.000	16880040H	1.00	0.9208	
2	6.359	6.360	-0.001	17003668H	1.00	0.9225	
2	6.639	6.641	-0.002	33627131H	1.00	0.9555	
2	7.022	7.022	0.000	20804806H	1.00	0.9159	
		Average of Peak Amounts =				0.9192	
						RPD = 3.91	

Reagents:

SG3262@1.0PPM_00002 Amount Added: 1.00 Units: mL

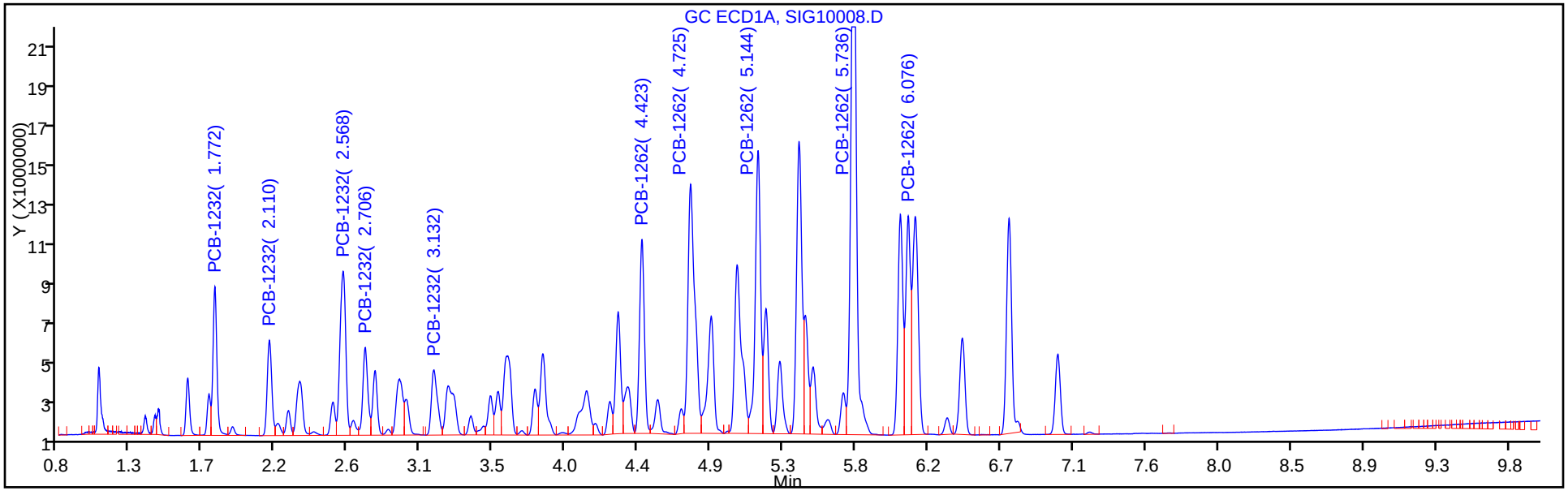
Report Date: 31-Mar-2015 06:13:51 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

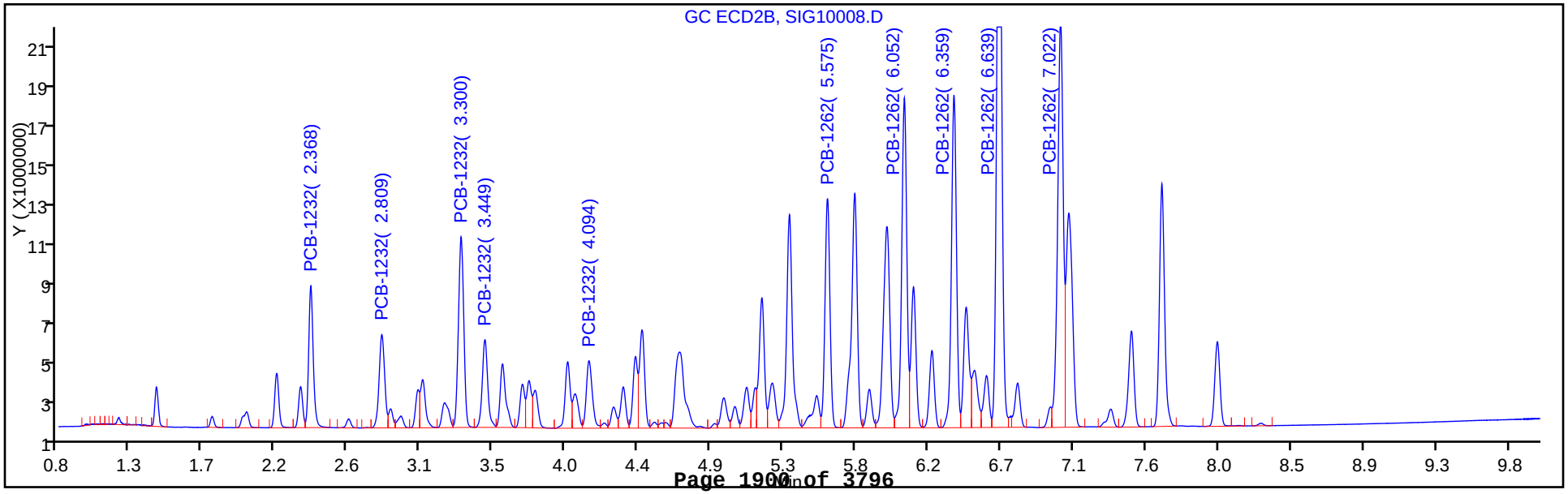
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10008.D

Injection Date:	30-Mar-2015 16:43:22	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1232 1262			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10009.D
Lims ID: STD2 1232 1262
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 16:58:57 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-009
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub10

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:52 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 PCB-1232							
1	1.772	1.771	0.001	23265998	2.00	1.59	
1	2.110	2.108	0.002	17862511	2.00	1.63	
1	2.568	2.568	0.000	39774971	2.00	1.69	
1	2.704	2.703	0.001	17995693	2.00	1.73	
1	3.131	3.132	-0.001	16271008	2.00	1.74	
		Average of Peak Amounts =				1.68	
2	2.367	2.367	0.000	26909776	2.00	1.64	
2	2.808	2.808	0.000	21475050	2.00	1.57	
2	3.300	3.300	0.000	44434094	2.00	1.71	
2	3.449	3.449	0.000	19720090	2.00	1.57	
2	4.094	4.092	0.002	16456950	2.00	1.65	
		Average of Peak Amounts =				1.63	
						RPD = 3.00	
9 PCB-1262							
1	4.423	4.422	0.001	18784192H	2.00	1.69	
1	4.724	4.724	0.000	25030774H	2.00	1.69	
1	5.144	5.140	0.004	28529168H	2.00	1.75	
1	5.737	5.737	0.000	58349010H	2.00	1.80	
1	6.076	6.075	0.001	22036194H	2.00	1.74	
		Average of Peak Amounts =				1.73	
2	5.574	5.573	0.001	24266284H	2.00	1.82	
2	6.052	6.052	0.000	33840437H	2.00	1.85	
2	6.361	6.360	0.001	34041523H	2.00	1.85	
2	6.641	6.641	0.000	68375289H	2.00	1.94	
2	7.022	7.022	0.000	42813683H	2.00	1.88	
		Average of Peak Amounts =				1.87	
						RPD = 7.47	

Reagents:

SG3262@2.0ppm_00002 Amount Added: 1.00 Units: mL

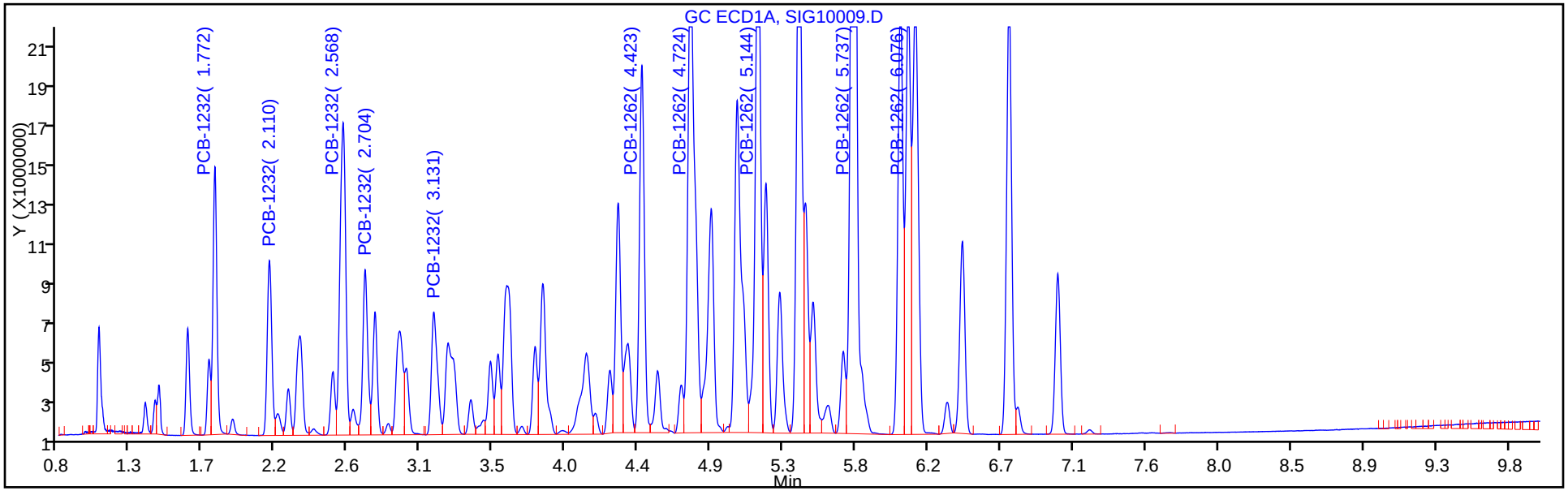
Report Date: 31-Mar-2015 06:13:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

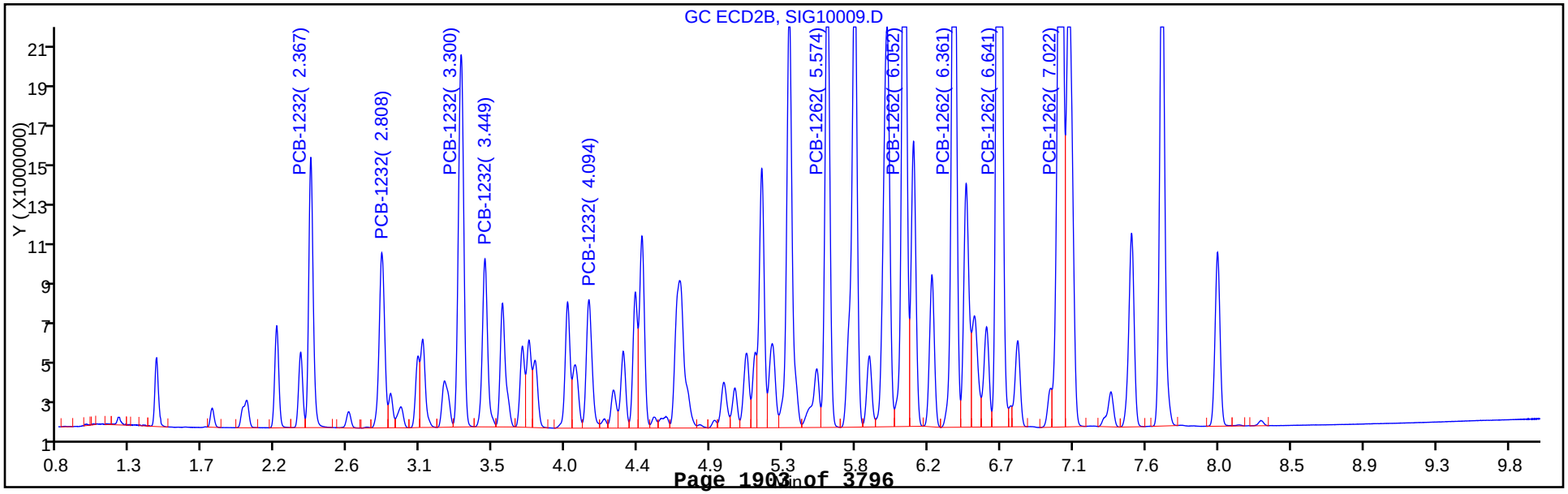
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10009.D

Injection Date:	30-Mar-2015 16:58:57	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1232 1262			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 17:14 Calibration End Date: 03/30/2015 18:31 Calibration ID: 27533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/10	SIG10010.D
Level 2	STD01 240-174339/11	SIG10011.D
Level 3	STD02 240-174339/12	SIG10012.D
Level 4	STD05 240-174339/13	SIG10013.D
Level 5	STD1 240-174339/14	SIG10014.D
Level 6	STD2 240-174339/15	SIG10015.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	1.771	1.772	1.772	1.771	1.772	1.772					1.721 - 1.821	1.772
PCB-1242 Peak 2	2.111	2.110	2.110	2.109	2.110	2.111					2.061 - 2.161	2.110
PCB-1242 Peak 3	2.563	2.567	2.570	2.568	2.567	2.568					2.513 - 2.613	2.567
PCB-1242 Peak 4	2.706	2.705	2.705	2.703	2.705	2.704					2.656 - 2.756	2.705
PCB-1242 Peak 5	3.131	3.130	3.130	3.132	3.131	3.130					3.081 - 3.181	3.131
PCB-1268 Peak 1	6.076	6.076	6.075	6.075	6.075	6.077					6.026 - 6.126	6.076
PCB-1268 Peak 2	6.115	6.113	6.114	6.115	6.115	6.114					6.065 - 6.165	6.114
PCB-1268 Peak 3	6.318	6.317	6.316	6.317	6.317	6.317					6.268 - 6.368	6.317
PCB-1268 Peak 4	6.703	6.701	6.700	6.703	6.702	6.701					6.653 - 6.753	6.702
PCB-1268 Peak 5	7.004	7.005	7.003	7.003	7.005	7.003					6.954 - 7.054	7.004

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 17:14 Calibration End Date: 03/30/2015 18:31 Calibration ID: 27533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/10	SIG10010.D
Level 2	STD01 240-174339/11	SIG10011.D
Level 3	STD02 240-174339/12	SIG10012.D
Level 4	STD05 240-174339/13	SIG10013.D
Level 5	STD1 240-174339/14	SIG10014.D
Level 6	STD2 240-174339/15	SIG10015.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	11510120 9329446	11725580 8305390	10571420	9878068	Ave		10220003.9				12.9		20.0			
PCB-1242 Peak 2	21199200 16969620	22087120 15173354	19146605	18019896	Ave		18765965.8				13.9		20.0			
PCB-1242 Peak 3	47439620 36647861	45281700 33669969	39887830	36917370	Ave		39974058.3				13.4		20.0			
PCB-1242 Peak 4	21237580 16616577	20424220 15158043	18391635	15895412	Ave		17953911.1				13.9		20.0			
PCB-1242 Peak 5	19825780 16402311	20141380 15002327	18196545	16768714	Ave		17722842.8				11.4		20.0			
PCB-1268 Peak 1	88978480 70935317	88511560 68525154	78046325	76305940	Ave		78550462.6				11.0		20.0			
PCB-1268 Peak 2	84574240 72193667	82375210 67897998	74451265	74478778	Ave		75995193.0				8.3		20.0			
PCB-1268 Peak 3	68430720 56833676	65264760 55044064	60389535	60573444	Ave		61089366.4				8.2		20.0			
PCB-1268 Peak 4	34950640 28511059	33823370 26994607	31393135	30608252	Ave		31046843.8				9.8		20.0			
PCB-1268 Peak 5	214992520 193651952	217927910 185690833	200966300	203256802	Ave		202747719				6.1		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 17:14 Calibration End Date: 03/30/2015 18:31 Calibration ID: 27533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/10	SIG10010.D
Level 2	STD01 240-174339/11	SIG10011.D
Level 3	STD02 240-174339/12	SIG10012.D
Level 4	STD05 240-174339/13	SIG10013.D
Level 5	STD1 240-174339/14	SIG10014.D
Level 6	STD2 240-174339/15	SIG10015.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	575506 16610779	1172558	2114284	4939034	9329446	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Ave	1059960 30346707	2208712	3829321	9009948	16969620	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	2371981 67339937	4528170	7977566	18458685	36647861	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	1061879 30316085	2042422	3678327	7947706	16616577	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Ave	991289 30004654	2014138	3639309	8384357	16402311	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 1	Ave	4448924 137050307	8851156	15609265	38152970	70935317	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 2	Ave	4228712 135795996	8237521	14890253	37239389	72193667	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 3	Ave	3421536 110088127	6526476	12077907	30286722	56833676	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 4	Ave	1747532 53989213	3382337	6278627	15304126	28511059	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 5	Ave	10749626 371381665	21792791	40193260	101628401	193651952	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10010.D
Lims ID: STD005 1242 1268
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 17:14:24 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-010
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:54 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:04:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.771	1.771	0.000	575506	0.0500	0.0563	
1	2.111	2.111	0.000	1059960	0.0500	0.0565	
1	2.563	2.563	0.000	2371981	0.0500	0.0593	
1	2.706	2.706	0.000	1061879	0.0500	0.0591	
1	3.131	3.131	0.000	991289	0.0500	0.0559	
		Average of Peak Amounts =				0.0574	
2	2.369	2.369	0.000	818109	0.0500	0.0413	
2	2.811	2.811	0.000	1412738	0.0500	0.0376	
2	3.301	3.301	0.000	2573528	0.0500	0.0589	
2	3.447	3.447	0.000	1226296	0.0500	0.0613	
2	4.093	4.093	0.000	1084497	0.0500	0.0586	
		Average of Peak Amounts =				0.0515	
						RPD = 10.84	
11 PCB-1268							
1	6.076	6.076	0.000	4448924	0.0500	0.0566	
1	6.115	6.115	0.000	4228712	0.0500	0.0556	
1	6.318	6.318	0.000	3421536	0.0500	0.0560	
1	6.703	6.703	0.000	1747532	0.0500	0.0563	
1	7.004	7.004	0.000	10749626	0.0500	0.0530	
		Average of Peak Amounts =				0.0555	
2	7.020	7.020	0.000	4591821	0.0500	0.0553	
2	7.069	7.069	0.000	4576295	0.0500	0.0538	
2	7.332	7.332	0.000	3701825	0.0500	0.0544	
2	7.650	7.650	0.000	1800113	0.0500	0.0553	
2	7.995	7.995	0.000	11358105	0.0500	0.0498	
		Average of Peak Amounts =				0.0537	
						RPD = 3.27	

Reagents:

SG4268@.05PPM_00003 Amount Added: 1.00 Units: mL

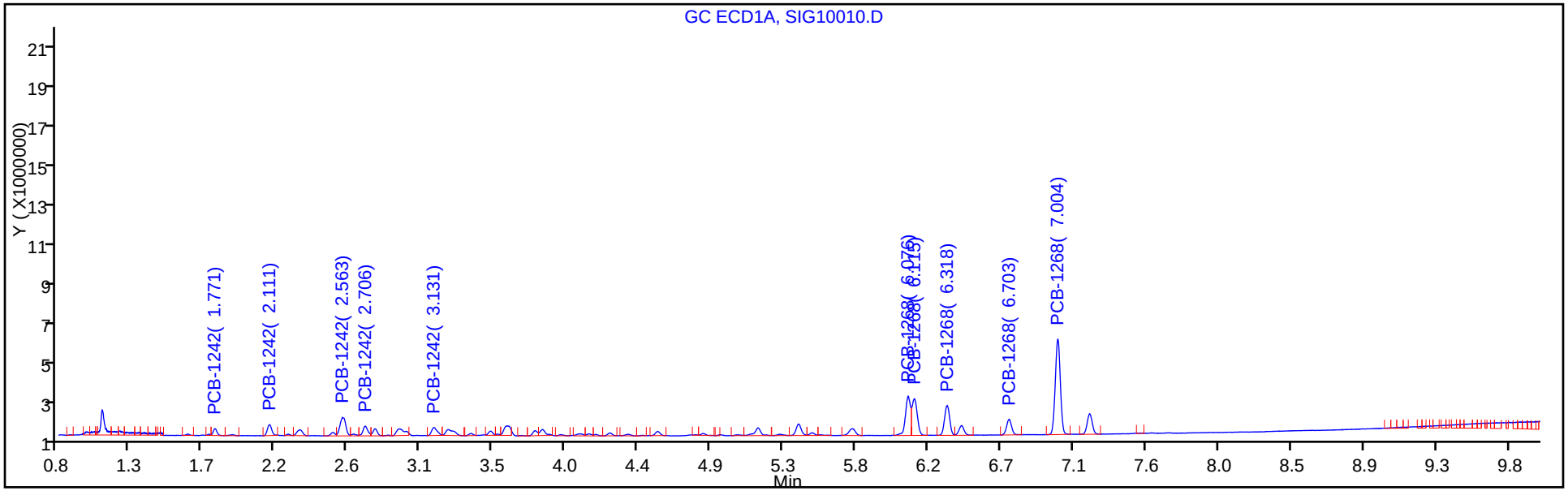
Report Date: 31-Mar-2015 06:13:55 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

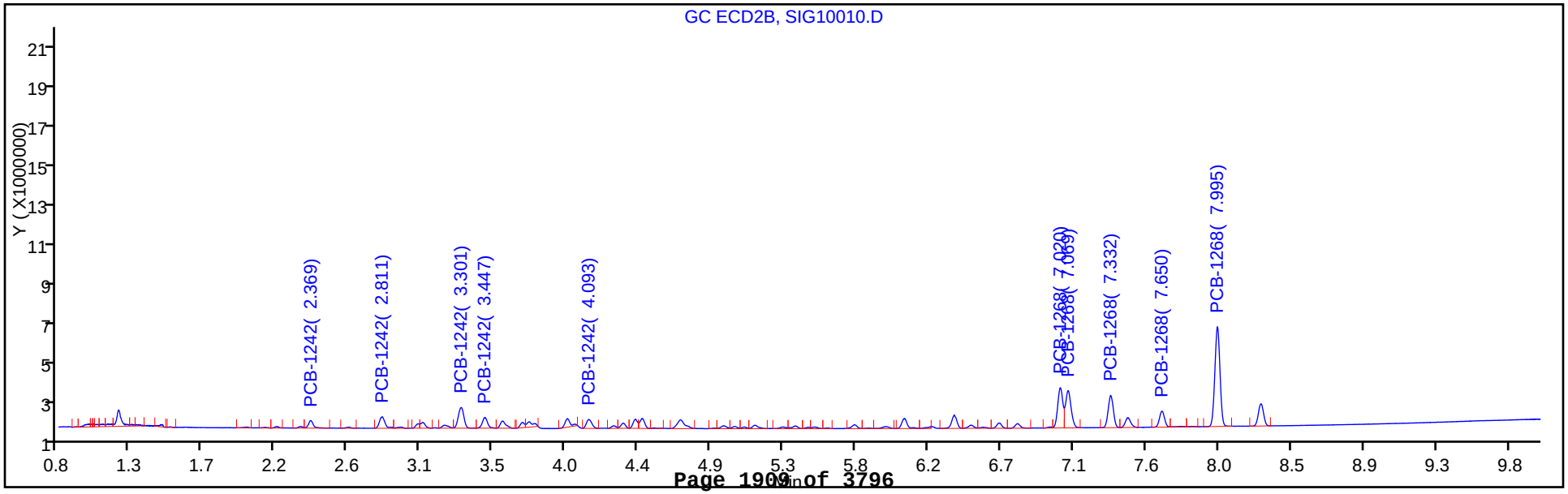
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10010.D

Injection Date:	30-Mar-2015 17:14:24	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1242 1268			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10011.D
Lims ID: STD01 1242 1268
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 17:29:51 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-011
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:56 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	1172558	0.1000	0.1147	
1	2.110	2.111	-0.001	2208712	0.1000	0.1177	
1	2.567	2.563	0.004	4528170	0.1000	0.1133	
1	2.705	2.706	-0.001	2042422	0.1000	0.1138	
1	3.130	3.131	-0.001	2014138	0.1000	0.1136	
		Average of Peak Amounts =				0.1146	
2	2.367	2.369	-0.002	1432544	0.1000	0.1051	
2	2.808	2.811	-0.003	2674967	0.1000	0.1106	
2	3.299	3.301	-0.002	4798531	0.1000	0.1099	
2	3.448	3.447	0.001	2272372	0.1000	0.1135	
2	4.093	4.093	0.000	2121747	0.1000	0.1146	
		Average of Peak Amounts =				0.1107	
						RPD = 3.46	
11 PCB-1268							
1	6.076	6.076	0.000	8851156	0.1000	0.1127	
1	6.113	6.115	-0.002	8237521	0.1000	0.1084	
1	6.317	6.318	-0.001	6526476	0.1000	0.1068	
1	6.701	6.703	-0.002	3382337	0.1000	0.1089	
1	7.005	7.004	0.001	21792791	0.1000	0.1075	
		Average of Peak Amounts =				0.1089	
2	7.021	7.020	0.001	8877985	0.1000	0.1069	
2	7.068	7.069	-0.001	8981861	0.1000	0.1056	
2	7.333	7.332	0.001	7279280	0.1000	0.1071	
2	7.653	7.650	0.003	3512915	0.1000	0.1079	
2	7.995	7.995	0.000	23539619	0.1000	0.1033	
		Average of Peak Amounts =				0.1062	
						RPD = 2.52	

Reagents:

SG4268@.1PPM_00003 Amount Added: 1.00 Units: mL

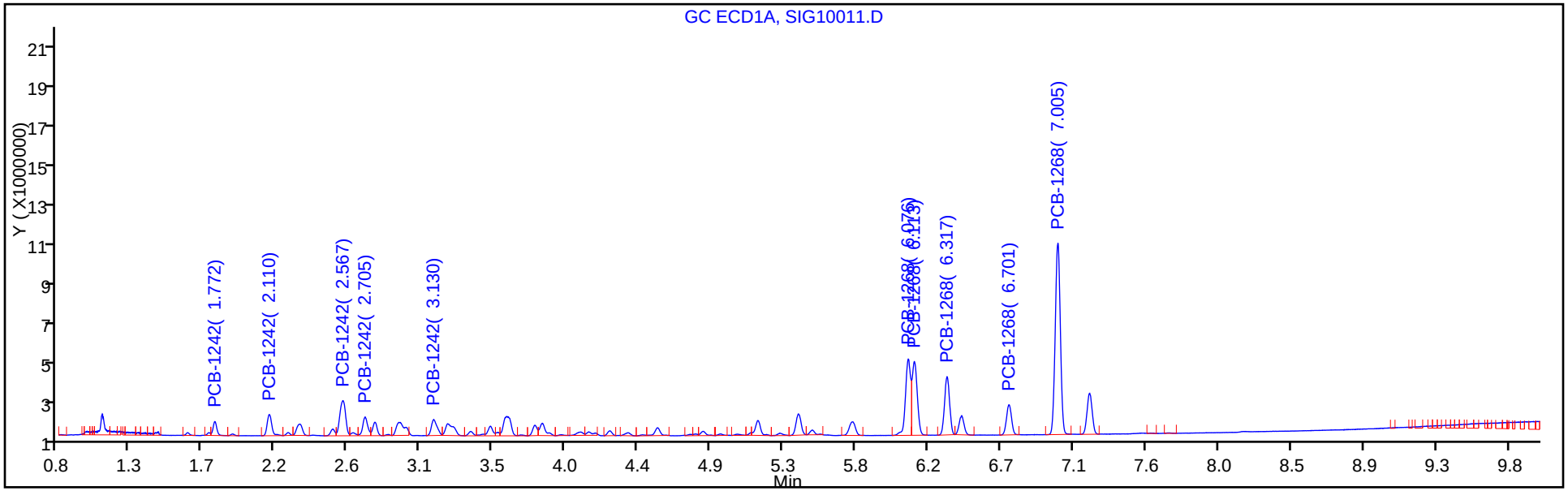
Report Date: 31-Mar-2015 06:13:57 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

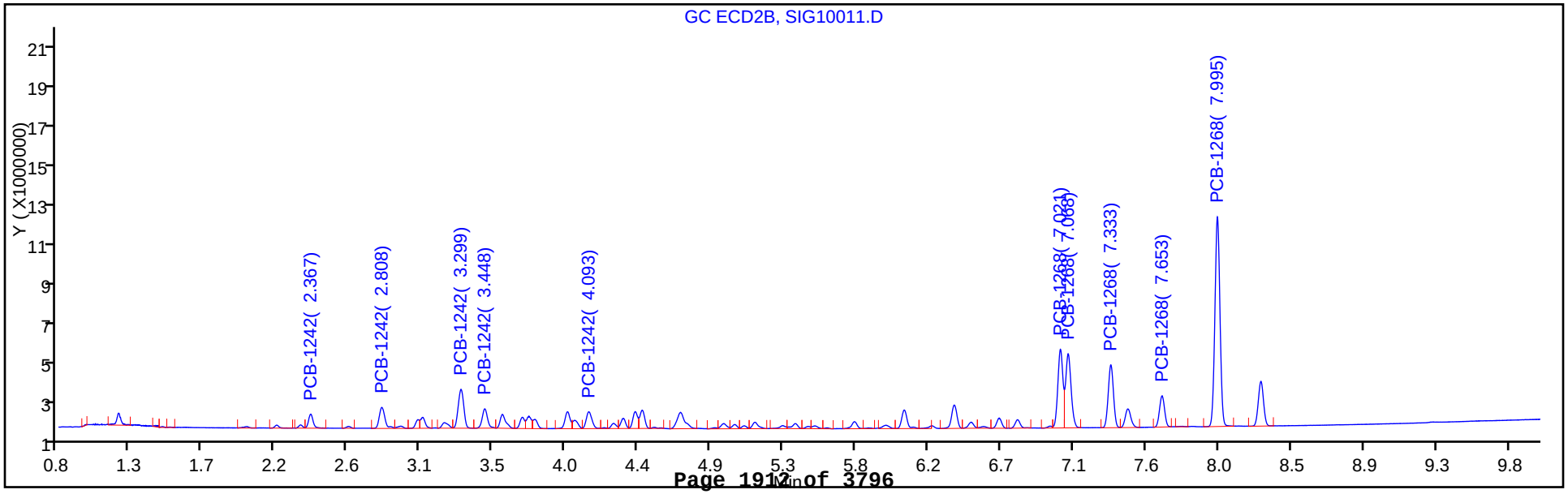
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10011.D

Injection Date:	30-Mar-2015 17:29:51	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1242 1268			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10012.D
Lims ID: STD02 1242 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 17:45:16 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-012
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:58 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	2114284	0.2000	0.2069	
1	2.110	2.111	-0.001	3829321	0.2000	0.2041	
1	2.570	2.563	0.007	7977566	0.2000	0.1996	
1	2.705	2.706	-0.001	3678327	0.2000	0.2049	
1	3.130	3.131	-0.001	3639309	0.2000	0.2053	
		Average of Peak Amounts =				0.2041	
2	2.367	2.369	-0.002	2475004	0.2000	0.2132	
2	2.810	2.811	-0.001	4567893	0.2000	0.2200	
2	3.301	3.301	0.000	8479882	0.2000	0.1942	
2	3.448	3.447	0.001	3999864	0.2000	0.1998	
2	4.095	4.093	0.002	3742010	0.2000	0.2021	
		Average of Peak Amounts =				0.2059	
						RPD = 0.84	
11 PCB-1268							
1	6.075	6.076	-0.001	15609265	0.2000	0.1987	
1	6.114	6.115	-0.001	14890253	0.2000	0.1959	
1	6.316	6.318	-0.002	12077907	0.2000	0.1977	
1	6.700	6.703	-0.003	6278627	0.2000	0.2022	
1	7.003	7.004	-0.001	40193260	0.2000	0.1982	
		Average of Peak Amounts =				0.1986	
2	7.021	7.020	0.001	15904246	0.2000	0.1915	
2	7.069	7.069	0.000	16355682	0.2000	0.1922	
2	7.334	7.332	0.002	13087450	0.2000	0.1925	
2	7.652	7.650	0.002	6420502	0.2000	0.1973	
2	7.995	7.995	0.000	44410213	0.2000	0.1949	
		Average of Peak Amounts =				0.1937	
						RPD = 2.49	

Reagents:

SG4268@.2PPM_00002 Amount Added: 1.00 Units: mL

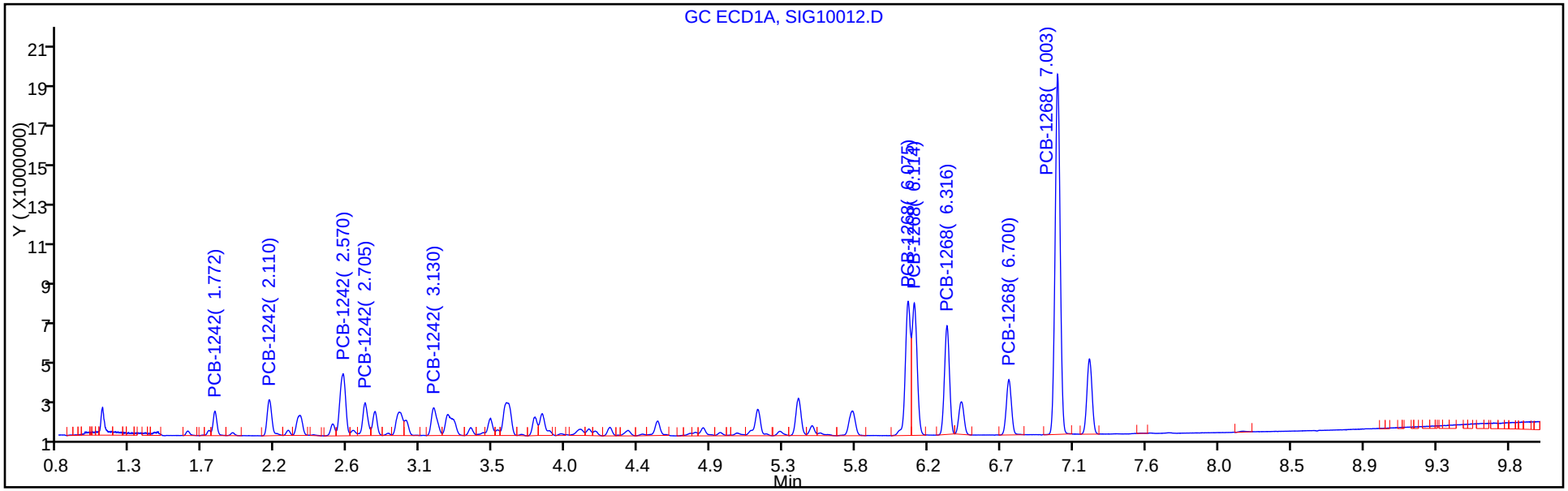
Report Date: 31-Mar-2015 06:13:59 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

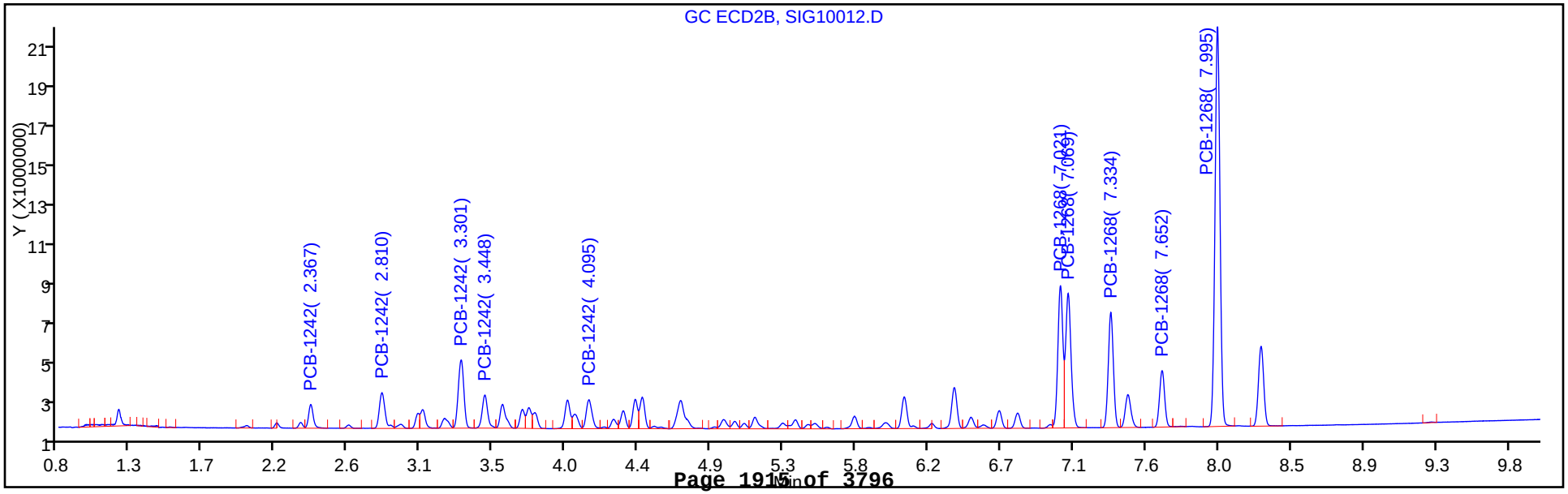
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10012.D

Injection Date:	30-Mar-2015 17:45:16	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1242 1268			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10013.D
Lims ID: STD05 1242 1268
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 18:00:50 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-013
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:00 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.771	1.771	0.000	4939034	0.5000	0.4833	
1	2.109	2.111	-0.002	9009948	0.5000	0.4801	
1	2.568	2.563	0.005	18458685	0.5000	0.4618	
1	2.703	2.706	-0.003	7947706	0.5000	0.4427	
1	3.132	3.131	0.001	8384357	0.5000	0.4731	
		Average of Peak Amounts =				0.4682	
2	2.367	2.369	-0.002	5530634	0.5000	0.5303	
2	2.808	2.811	-0.003	9862900	0.5000	0.5261	
2	3.301	3.301	0.000	20507336	0.5000	0.4696	
2	3.448	3.447	0.001	9252432	0.5000	0.4621	
2	4.093	4.093	0.000	8624694	0.5000	0.4659	
		Average of Peak Amounts =				0.4908	
						RPD = 4.72	
11 PCB-1268							
1	6.075	6.076	-0.001	38152970	0.5000	0.4857	
1	6.115	6.115	0.000	37239389	0.5000	0.4900	
1	6.317	6.318	-0.001	30286722	0.5000	0.4958	
1	6.703	6.703	0.000	15304126	0.5000	0.4929	
1	7.003	7.004	-0.001	101628401	0.5000	0.5013	
		Average of Peak Amounts =				0.4931	
2	7.021	7.020	0.001	40736949	0.5000	0.4905	
2	7.068	7.069	-0.001	42124185	0.5000	0.4951	
2	7.333	7.332	0.001	33661181	0.5000	0.4951	
2	7.652	7.650	0.002	15912802	0.5000	0.4889	
2	7.996	7.995	0.001	117728602	0.5000	0.5167	
		Average of Peak Amounts =				0.4973	
						RPD = 0.83	

Reagents:

SG4268@0.5PPM_00003 Amount Added: 1.00 Units: mL

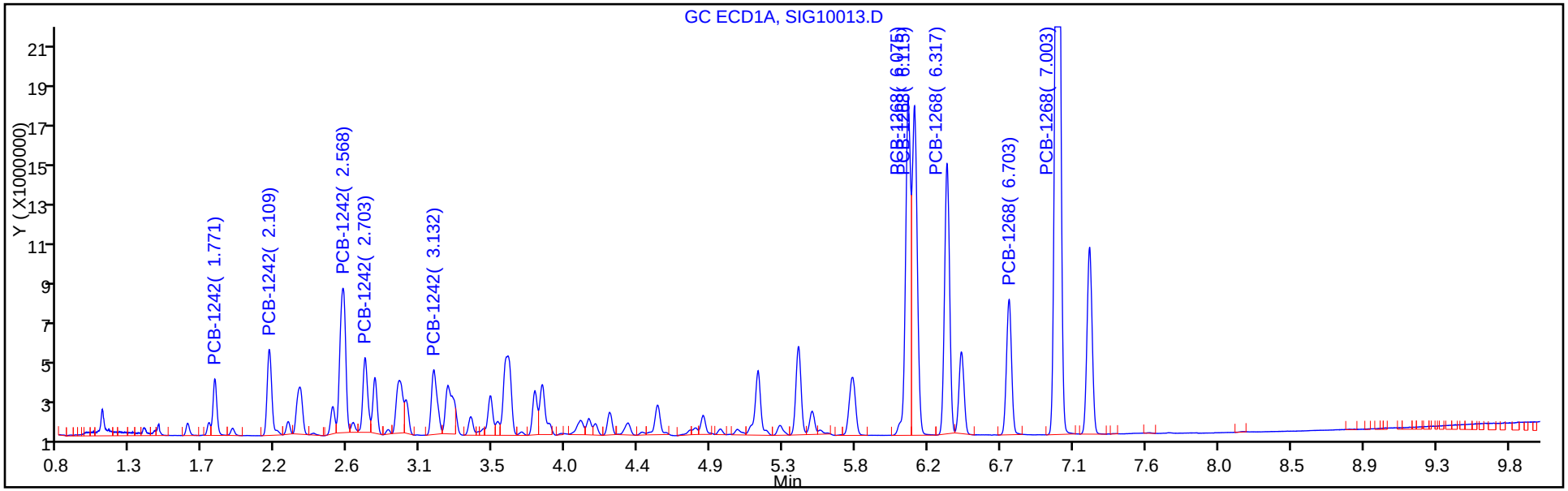
Report Date: 31-Mar-2015 06:14:01 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

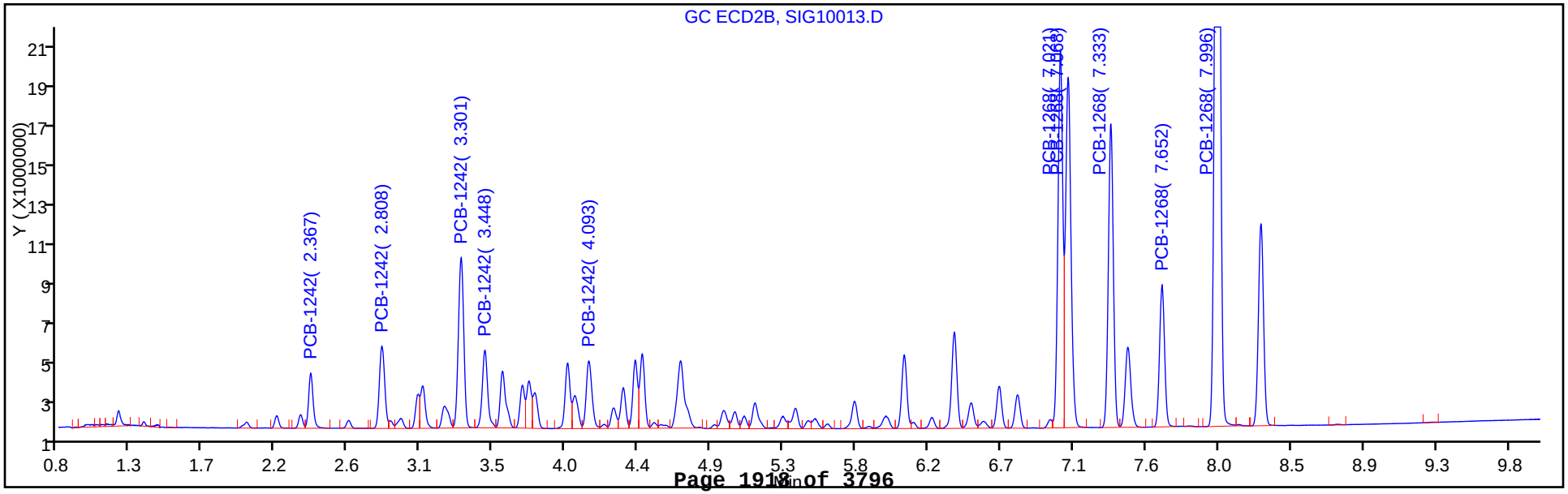
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10013.D

Injection Date:	30-Mar-2015 18:00:50	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1242 1268			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10014.D
Lims ID: STD1 1242 1268
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 18:16:20 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-014
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:03 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	9329446	1.00	0.9129	
1	2.110	2.111	-0.001	16969620	1.00	0.9043	
1	2.567	2.563	0.004	36647861	1.00	0.9168	
1	2.705	2.706	-0.001	16616577	1.00	0.9255	
1	3.131	3.131	0.000	16402311	1.00	0.9255	
		Average of Peak Amounts =				0.9170	
2	2.367	2.369	-0.002	10366059	1.00	1.03	
2	2.809	2.811	-0.002	18492407	1.00	1.03	
2	3.300	3.301	-0.001	40297934	1.00	0.9227	
2	3.448	3.447	0.001	17776265	1.00	0.8879	
2	4.093	4.093	0.000	16562630	1.00	0.8947	
		Average of Peak Amounts =				0.9525	
						RPD = 3.80	
11 PCB-1268							
1	6.075	6.076	-0.001	70935317	1.00	0.9031	
1	6.115	6.115	0.000	72193667	1.00	0.9500	
1	6.317	6.318	-0.001	56833676	1.00	0.9303	
1	6.702	6.703	-0.001	28511059	1.00	0.9183	
1	7.005	7.004	0.001	193651952	1.00	0.9551	
		Average of Peak Amounts =				0.9314	
2	7.020	7.020	0.000	78832278	1.00	0.9491	
2	7.067	7.069	-0.002	82276709	1.00	0.9671	
2	7.334	7.332	0.002	64450818	1.00	0.9480	
2	7.652	7.650	0.002	30282008	1.00	0.9304	
2	7.996	7.995	0.001	225780946	1.00	0.99	
		Average of Peak Amounts =				0.9571	
						RPD = 2.73	

Reagents:

SG42/68@1.0PP_00003 Amount Added: 1.00 Units: mL

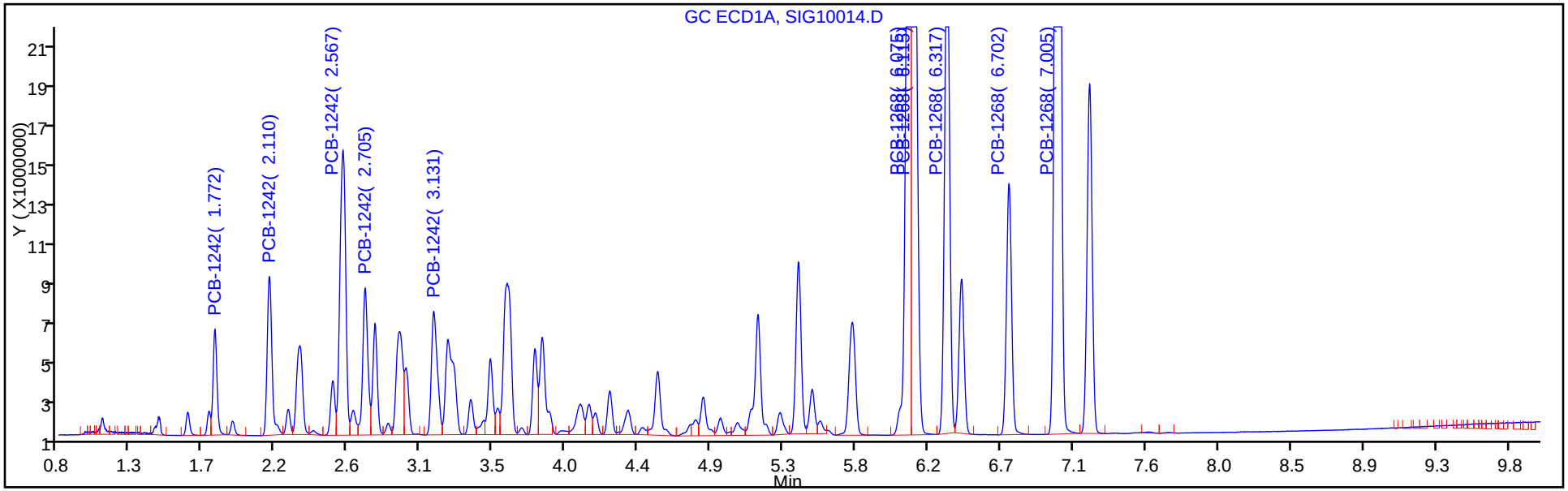
Report Date: 31-Mar-2015 06:14:04 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

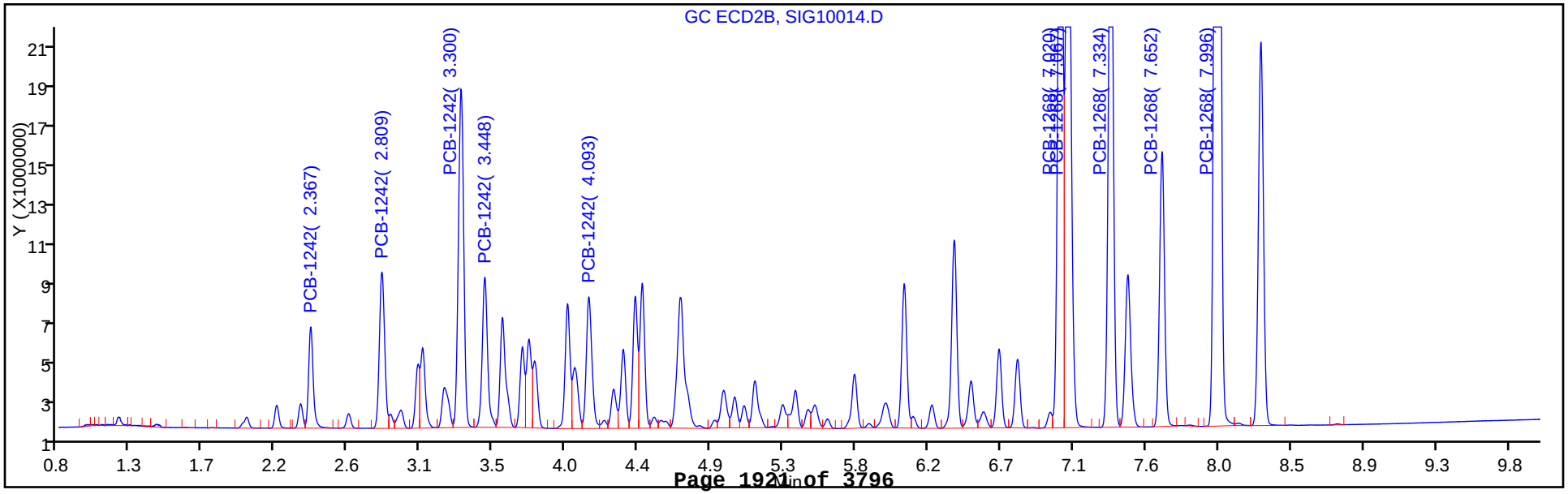
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10014.D

Injection Date:	30-Mar-2015 18:16:20	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1242 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10015.D
Lims ID: STD2 1242 1268
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 18:31:51 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-015
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:05 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	16610779	2.00	1.63	
1	2.111	2.111	0.000	30346707	2.00	1.62	
1	2.568	2.563	0.005	67339937	2.00	1.68	
1	2.704	2.706	-0.002	30316085	2.00	1.69	
1	3.130	3.131	-0.001	30004654	2.00	1.69	
		Average of Peak Amounts =				1.66	
2	2.366	2.369	-0.003	18998989	2.00	1.93	
2	2.808	2.811	-0.003	34158044	2.00	1.93	
2	3.300	3.301	-0.001	77729306	2.00	1.78	
2	3.447	3.447	0.000	33188564	2.00	1.66	
2	4.093	4.093	0.000	31281793	2.00	1.69	
		Average of Peak Amounts =				1.80	
						RPD = 7.83	
11 PCB-1268							
1	6.077	6.076	0.001	137050307	2.00	1.74	
1	6.114	6.115	-0.001	135795996	2.00	1.79	
1	6.317	6.318	-0.001	110088127	2.00	1.80	
1	6.701	6.703	-0.002	53989213	2.00	1.74	
1	7.003	7.004	-0.001	371381665	2.00	1.83	
		Average of Peak Amounts =				1.78	
2	7.021	7.020	0.001	155818616	2.00	1.88	
2	7.068	7.069	-0.001	161621548	2.00	1.90	
2	7.333	7.332	0.001	127789469	2.00	1.88	
2	7.652	7.650	0.002	59873041	2.00	1.84	
2	7.996	7.995	0.001	442534558	2.00	1.94	
		Average of Peak Amounts =				1.89	
						RPD = 5.81	

Reagents:

SG4268@2.0PPM_00002 Amount Added: 1.00 Units: mL

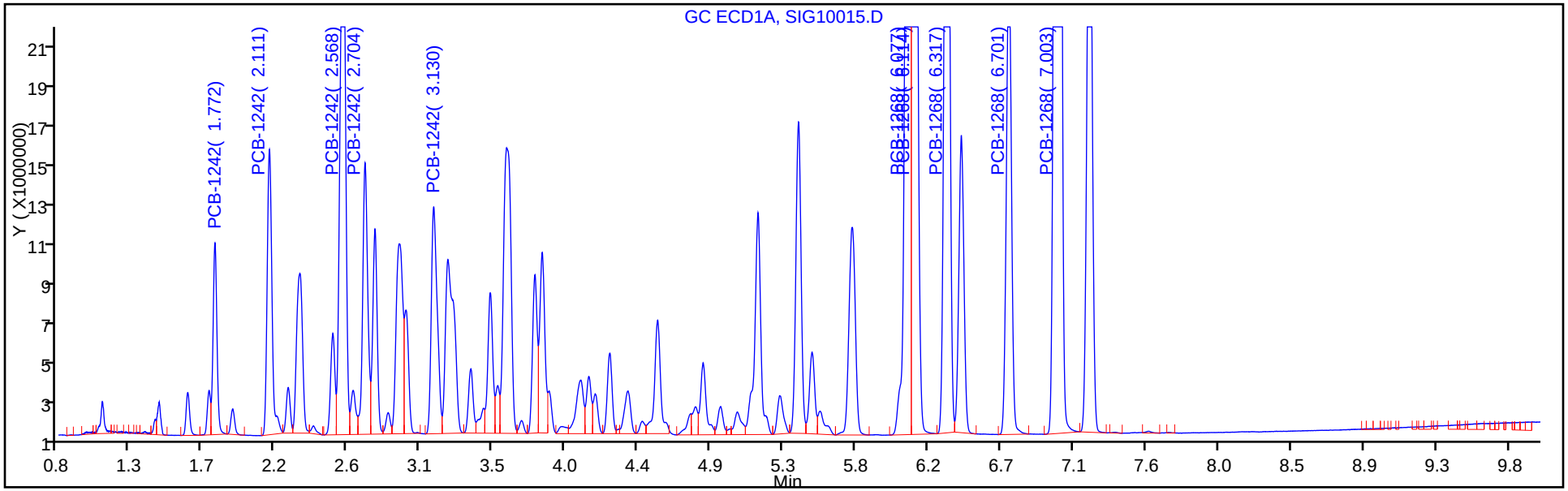
Report Date: 31-Mar-2015 06:14:07 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

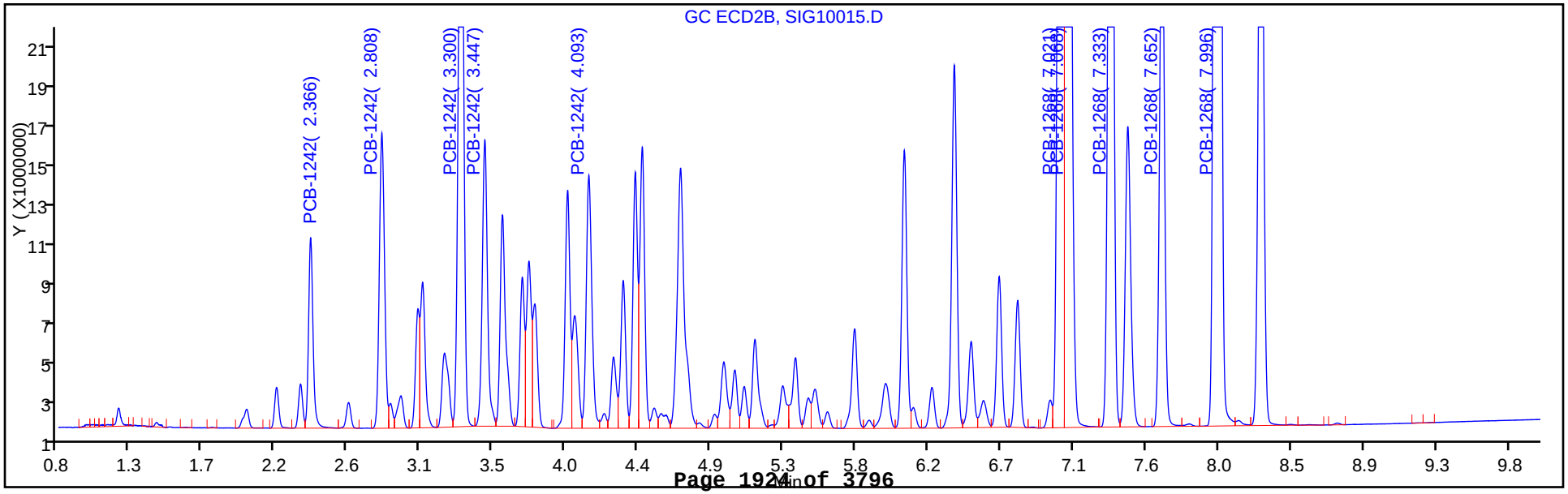
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10015.D

Injection Date:	30-Mar-2015 18:31:51	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1242 1268			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 17:14 Calibration End Date: 03/30/2015 18:31 Calibration ID: 27534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/10	SIG10010.D
Level 2	STD01 240-174339/11	SIG10011.D
Level 3	STD02 240-174339/12	SIG10012.D
Level 4	STD05 240-174339/13	SIG10013.D
Level 5	STD1 240-174339/14	SIG10014.D
Level 6	STD2 240-174339/15	SIG10015.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	2.369	2.367	2.367	2.367	2.367	2.366					2.319 - 2.419	2.367
PCB-1242 Peak 2	2.811	2.808	2.810	2.808	2.809	2.808					2.761 - 2.861	2.809
PCB-1242 Peak 3	3.301	3.299	3.301	3.301	3.300	3.300					3.251 - 3.351	3.300
PCB-1242 Peak 4	3.447	3.448	3.448	3.448	3.448	3.447					3.397 - 3.497	3.448
PCB-1242 Peak 5	4.093	4.093	4.095	4.093	4.093	4.093					4.043 - 4.143	4.093
PCB-1268 Peak 1	7.020	7.021	7.021	7.021	7.020	7.021					6.970 - 7.070	7.021
PCB-1268 Peak 2	7.069	7.068	7.069	7.068	7.067	7.068					7.019 - 7.119	7.068
PCB-1268 Peak 3	7.332	7.333	7.334	7.333	7.334	7.333					7.282 - 7.382	7.333
PCB-1268 Peak 4	7.650	7.653	7.652	7.652	7.652	7.652					7.600 - 7.700	7.652
PCB-1268 Peak 5	7.995	7.995	7.995	7.996	7.996	7.996					7.945 - 8.045	7.996

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 17:14 Calibration End Date: 03/30/2015 18:31 Calibration ID: 27534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/10	SIG10010.D
Level 2	STD01 240-174339/11	SIG10011.D
Level 3	STD02 240-174339/12	SIG10012.D
Level 4	STD05 240-174339/13	SIG10013.D
Level 5	STD1 240-174339/14	SIG10014.D
Level 6	STD2 240-174339/15	SIG10015.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	16362180 10366059	14325440 9499495	12375020	11061268	Lin1	419972.313	9636754.58							0.9970		0.9900
PCB-1242 Peak 2	28254760 18492407	26749670 17079022	22839465	19725800	Lin1	762571.917	17297017.5							0.9960		0.9900
PCB-1242 Peak 3	51470560 40297934	47985310 38864653	42399410	41014672	Ave		43672089.8				11.3		20.0			
PCB-1242 Peak 4	24525920 17776265	22723720 16594282	19999320	18504864	Ave		20020728.5				15.3		20.0			
PCB-1242 Peak 5	21689940 16562630	21217470 15640897	18710050	17249388	Ave		18511729.1				13.5		20.0			
PCB-1268 Peak 1	91836420 78832278	88779850 77909308	79521230	81473898	Ave		83058830.7				7.0		20.0			
PCB-1268 Peak 2	91525900 82276709	89818610 80810774	81778410	84248370	Ave		85076462.2				5.3		20.0			
PCB-1268 Peak 3	74036500 64450818	72792800 63894735	65437250	67322362	Ave		67989077.4				6.4		20.0			
PCB-1268 Peak 4	36002260 30282008	35129150 29936521	32102510	31825604	Ave		32546342.1				7.7		20.0			
PCB-1268 Peak 5	227162100 225780946	235396190 221267279	222051065	235457204	Ave		227852464				2.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 17:14 Calibration End Date: 03/30/2015 18:31 Calibration ID: 27534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/10	SIG10010.D
Level 2	STD01 240-174339/11	SIG10011.D
Level 3	STD02 240-174339/12	SIG10012.D
Level 4	STD05 240-174339/13	SIG10013.D
Level 5	STD1 240-174339/14	SIG10014.D
Level 6	STD2 240-174339/15	SIG10015.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Lin1	818109 18998989	1432544	2475004	5530634	10366059	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Lin1	1412738 34158044	2674967	4567893	9862900	18492407	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	2573528 77729306	4798531	8479882	20507336	40297934	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	1226296 33188564	2272372	3999864	9252432	17776265	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Ave	1084497 31281793	2121747	3742010	8624694	16562630	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 1	Ave	4591821 155818616	8877985	15904246	40736949	78832278	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 2	Ave	4576295 161621548	8981861	16355682	42124185	82276709	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 3	Ave	3701825 127789469	7279280	13087450	33661181	64450818	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 4	Ave	1800113 59873041	3512915	6420502	15912802	30282008	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 5	Ave	11358105 442534558	23539619	44410213	117728602	225780946	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10010.D
Lims ID: STD005 1242 1268
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 17:14:24 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-010
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:54 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:04:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.771	1.771	0.000	575506	0.0500	0.0563	
1	2.111	2.111	0.000	1059960	0.0500	0.0565	
1	2.563	2.563	0.000	2371981	0.0500	0.0593	
1	2.706	2.706	0.000	1061879	0.0500	0.0591	
1	3.131	3.131	0.000	991289	0.0500	0.0559	
		Average of Peak Amounts =				0.0574	
2	2.369	2.369	0.000	818109	0.0500	0.0413	
2	2.811	2.811	0.000	1412738	0.0500	0.0376	
2	3.301	3.301	0.000	2573528	0.0500	0.0589	
2	3.447	3.447	0.000	1226296	0.0500	0.0613	
2	4.093	4.093	0.000	1084497	0.0500	0.0586	
		Average of Peak Amounts =				0.0515	
						RPD = 10.84	
11 PCB-1268							
1	6.076	6.076	0.000	4448924	0.0500	0.0566	
1	6.115	6.115	0.000	4228712	0.0500	0.0556	
1	6.318	6.318	0.000	3421536	0.0500	0.0560	
1	6.703	6.703	0.000	1747532	0.0500	0.0563	
1	7.004	7.004	0.000	10749626	0.0500	0.0530	
		Average of Peak Amounts =				0.0555	
2	7.020	7.020	0.000	4591821	0.0500	0.0553	
2	7.069	7.069	0.000	4576295	0.0500	0.0538	
2	7.332	7.332	0.000	3701825	0.0500	0.0544	
2	7.650	7.650	0.000	1800113	0.0500	0.0553	
2	7.995	7.995	0.000	11358105	0.0500	0.0498	
		Average of Peak Amounts =				0.0537	
						RPD = 3.27	

Reagents:

SG4268@.05PPM_00003 Amount Added: 1.00 Units: mL

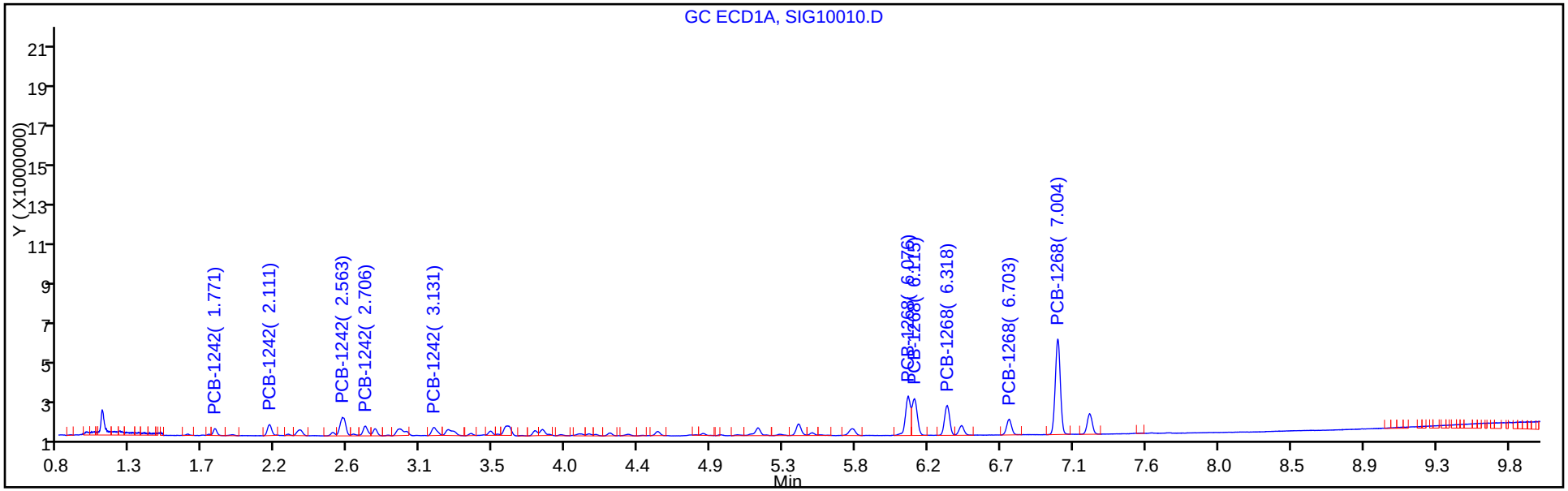
Report Date: 31-Mar-2015 06:13:55 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

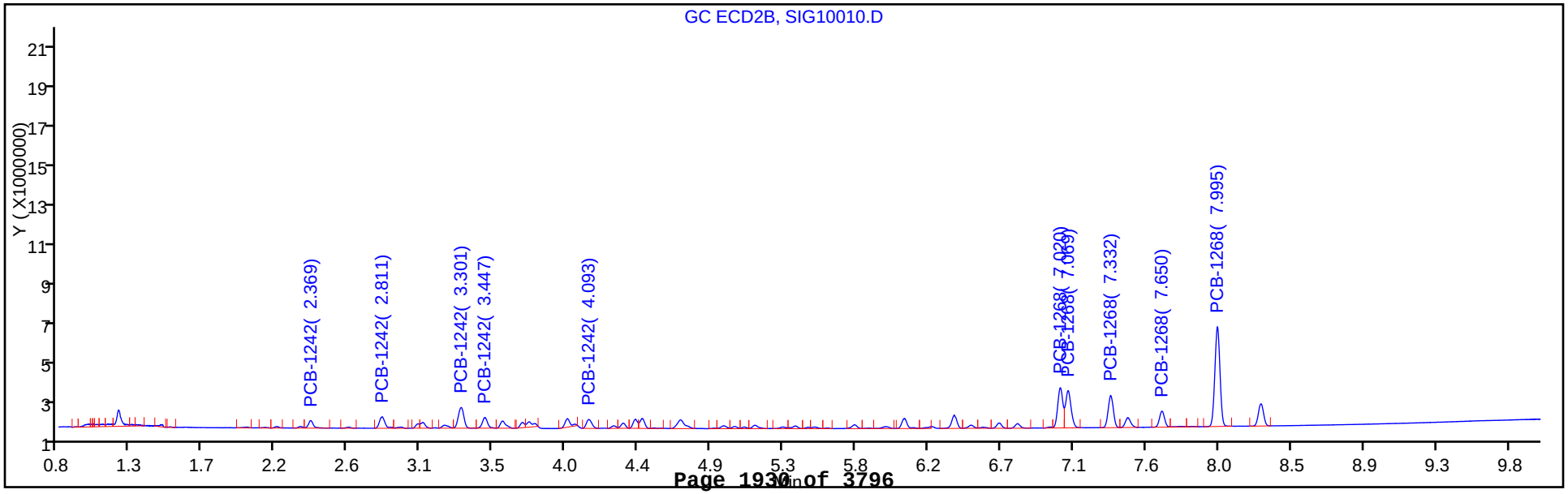
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10010.D

Injection Date:	30-Mar-2015 17:14:24	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1242 1268			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10011.D
Lims ID: STD01 1242 1268
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 17:29:51 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-011
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:56 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	1172558	0.1000	0.1147	
1	2.110	2.111	-0.001	2208712	0.1000	0.1177	
1	2.567	2.563	0.004	4528170	0.1000	0.1133	
1	2.705	2.706	-0.001	2042422	0.1000	0.1138	
1	3.130	3.131	-0.001	2014138	0.1000	0.1136	
		Average of Peak Amounts =				0.1146	
2	2.367	2.369	-0.002	1432544	0.1000	0.1051	
2	2.808	2.811	-0.003	2674967	0.1000	0.1106	
2	3.299	3.301	-0.002	4798531	0.1000	0.1099	
2	3.448	3.447	0.001	2272372	0.1000	0.1135	
2	4.093	4.093	0.000	2121747	0.1000	0.1146	
		Average of Peak Amounts =				0.1107	
						RPD = 3.46	
11 PCB-1268							
1	6.076	6.076	0.000	8851156	0.1000	0.1127	
1	6.113	6.115	-0.002	8237521	0.1000	0.1084	
1	6.317	6.318	-0.001	6526476	0.1000	0.1068	
1	6.701	6.703	-0.002	3382337	0.1000	0.1089	
1	7.005	7.004	0.001	21792791	0.1000	0.1075	
		Average of Peak Amounts =				0.1089	
2	7.021	7.020	0.001	8877985	0.1000	0.1069	
2	7.068	7.069	-0.001	8981861	0.1000	0.1056	
2	7.333	7.332	0.001	7279280	0.1000	0.1071	
2	7.653	7.650	0.003	3512915	0.1000	0.1079	
2	7.995	7.995	0.000	23539619	0.1000	0.1033	
		Average of Peak Amounts =				0.1062	
						RPD = 2.52	

Reagents:

SG4268@.1PPM_00003 Amount Added: 1.00 Units: mL

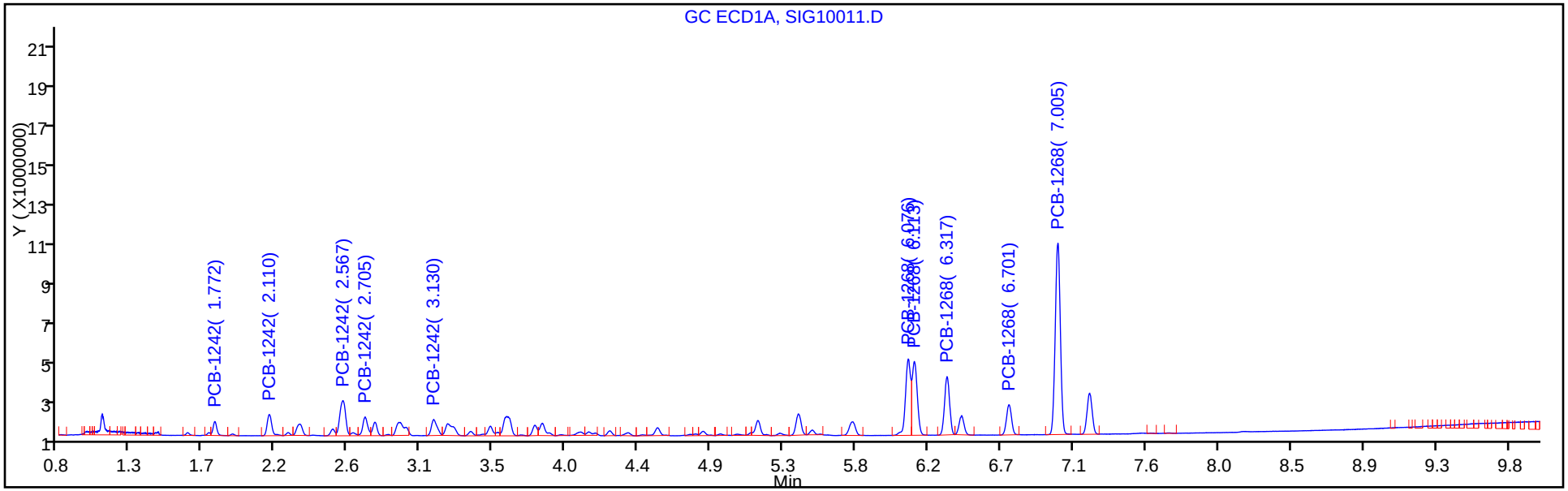
Report Date: 31-Mar-2015 06:13:57 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

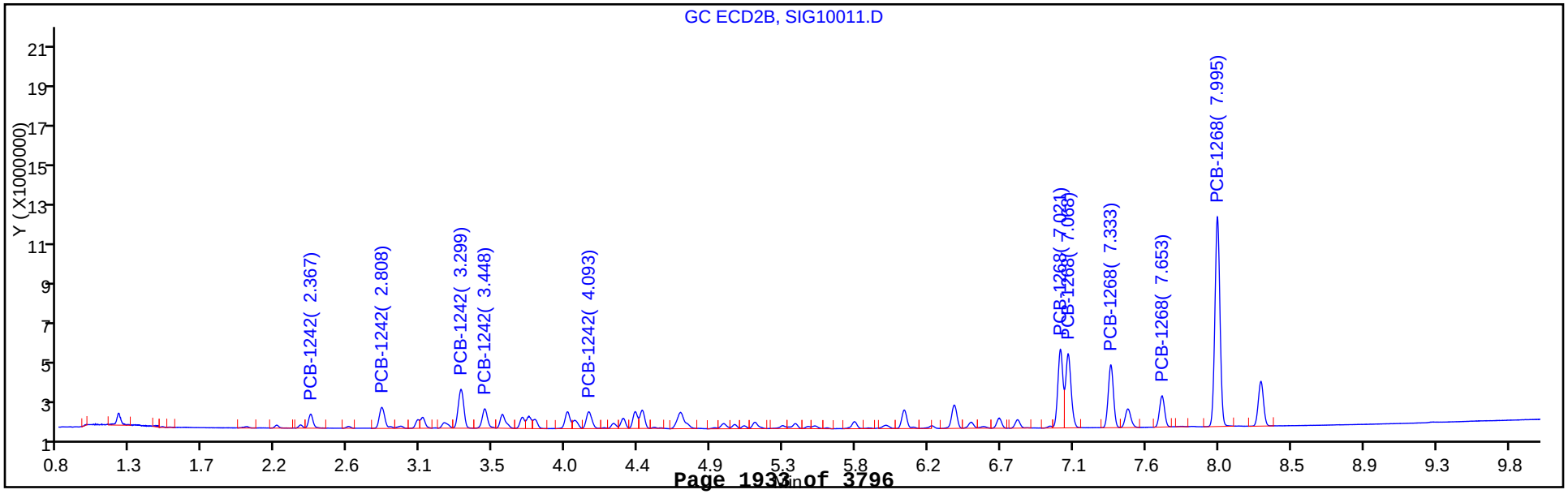
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10011.D

Injection Date:	30-Mar-2015 17:29:51	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1242 1268			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10012.D
Lims ID: STD02 1242 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 17:45:16 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-012
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:13:58 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	2114284	0.2000	0.2069	
1	2.110	2.111	-0.001	3829321	0.2000	0.2041	
1	2.570	2.563	0.007	7977566	0.2000	0.1996	
1	2.705	2.706	-0.001	3678327	0.2000	0.2049	
1	3.130	3.131	-0.001	3639309	0.2000	0.2053	
		Average of Peak Amounts =				0.2041	
2	2.367	2.369	-0.002	2475004	0.2000	0.2132	
2	2.810	2.811	-0.001	4567893	0.2000	0.2200	
2	3.301	3.301	0.000	8479882	0.2000	0.1942	
2	3.448	3.447	0.001	3999864	0.2000	0.1998	
2	4.095	4.093	0.002	3742010	0.2000	0.2021	
		Average of Peak Amounts =				0.2059	
						RPD = 0.84	
11 PCB-1268							
1	6.075	6.076	-0.001	15609265	0.2000	0.1987	
1	6.114	6.115	-0.001	14890253	0.2000	0.1959	
1	6.316	6.318	-0.002	12077907	0.2000	0.1977	
1	6.700	6.703	-0.003	6278627	0.2000	0.2022	
1	7.003	7.004	-0.001	40193260	0.2000	0.1982	
		Average of Peak Amounts =				0.1986	
2	7.021	7.020	0.001	15904246	0.2000	0.1915	
2	7.069	7.069	0.000	16355682	0.2000	0.1922	
2	7.334	7.332	0.002	13087450	0.2000	0.1925	
2	7.652	7.650	0.002	6420502	0.2000	0.1973	
2	7.995	7.995	0.000	44410213	0.2000	0.1949	
		Average of Peak Amounts =				0.1937	
						RPD = 2.49	

Reagents:

SG4268@.2PPM_00002 Amount Added: 1.00 Units: mL

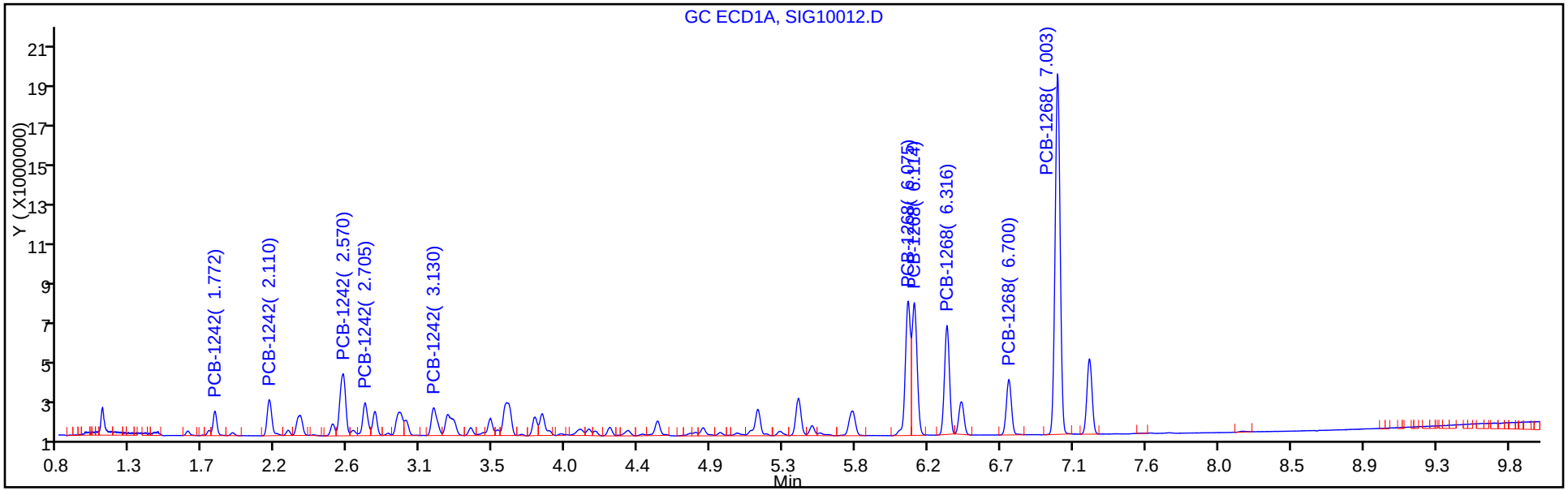
Report Date: 31-Mar-2015 06:13:59 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

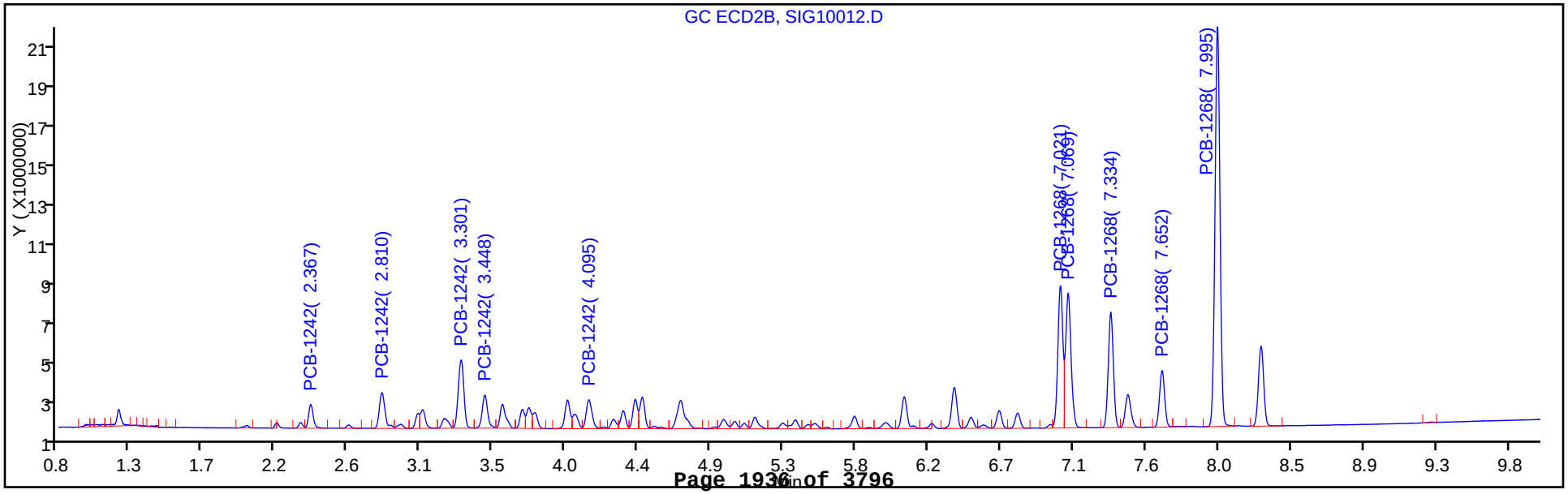
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10012.D

Injection Date:	30-Mar-2015 17:45:16	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1242 1268			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10013.D
Lims ID: STD05 1242 1268
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 18:00:50 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-013
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:00 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.771	1.771	0.000	4939034	0.5000	0.4833	
1	2.109	2.111	-0.002	9009948	0.5000	0.4801	
1	2.568	2.563	0.005	18458685	0.5000	0.4618	
1	2.703	2.706	-0.003	7947706	0.5000	0.4427	
1	3.132	3.131	0.001	8384357	0.5000	0.4731	
		Average of Peak Amounts =				0.4682	
2	2.367	2.369	-0.002	5530634	0.5000	0.5303	
2	2.808	2.811	-0.003	9862900	0.5000	0.5261	
2	3.301	3.301	0.000	20507336	0.5000	0.4696	
2	3.448	3.447	0.001	9252432	0.5000	0.4621	
2	4.093	4.093	0.000	8624694	0.5000	0.4659	
		Average of Peak Amounts =				0.4908	
						RPD = 4.72	
11 PCB-1268							
1	6.075	6.076	-0.001	38152970	0.5000	0.4857	
1	6.115	6.115	0.000	37239389	0.5000	0.4900	
1	6.317	6.318	-0.001	30286722	0.5000	0.4958	
1	6.703	6.703	0.000	15304126	0.5000	0.4929	
1	7.003	7.004	-0.001	101628401	0.5000	0.5013	
		Average of Peak Amounts =				0.4931	
2	7.021	7.020	0.001	40736949	0.5000	0.4905	
2	7.068	7.069	-0.001	42124185	0.5000	0.4951	
2	7.333	7.332	0.001	33661181	0.5000	0.4951	
2	7.652	7.650	0.002	15912802	0.5000	0.4889	
2	7.996	7.995	0.001	117728602	0.5000	0.5167	
		Average of Peak Amounts =				0.4973	
						RPD = 0.83	

Reagents:

SG4268@0.5PPM_00003 Amount Added: 1.00 Units: mL

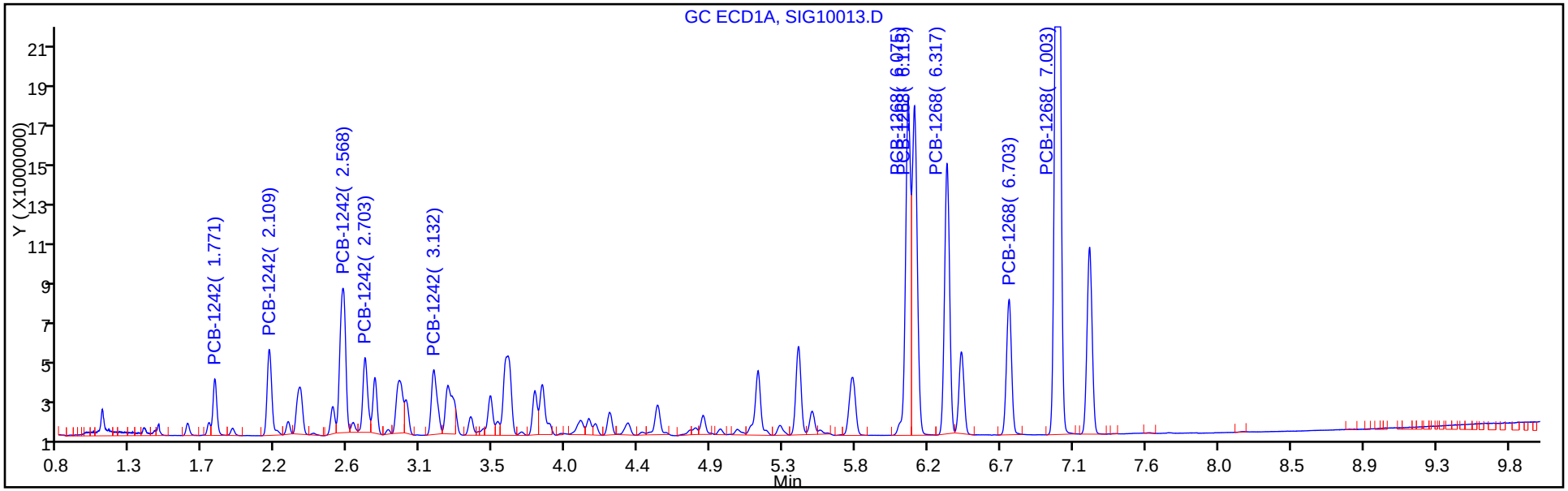
Report Date: 31-Mar-2015 06:14:01 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

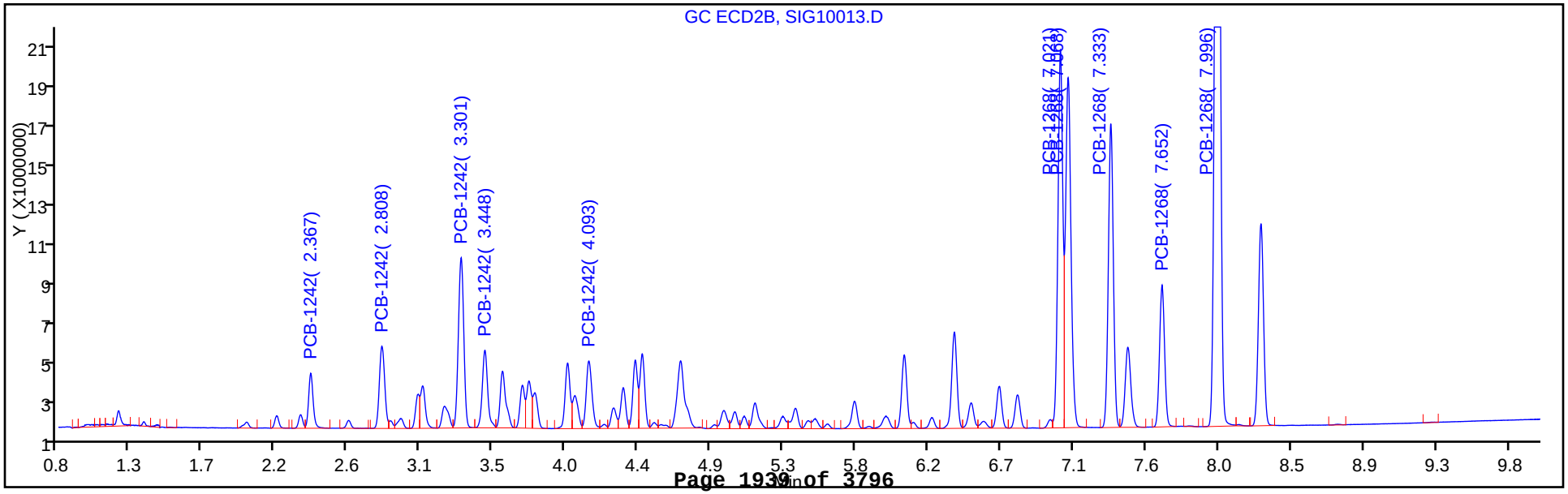
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10013.D

Injection Date:	30-Mar-2015 18:00:50	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1242 1268			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10014.D
Lims ID: STD1 1242 1268
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 18:16:20 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-014
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:03 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	9329446	1.00	0.9129	
1	2.110	2.111	-0.001	16969620	1.00	0.9043	
1	2.567	2.563	0.004	36647861	1.00	0.9168	
1	2.705	2.706	-0.001	16616577	1.00	0.9255	
1	3.131	3.131	0.000	16402311	1.00	0.9255	
		Average of Peak Amounts =				0.9170	
2	2.367	2.369	-0.002	10366059	1.00	1.03	
2	2.809	2.811	-0.002	18492407	1.00	1.03	
2	3.300	3.301	-0.001	40297934	1.00	0.9227	
2	3.448	3.447	0.001	17776265	1.00	0.8879	
2	4.093	4.093	0.000	16562630	1.00	0.8947	
		Average of Peak Amounts =				0.9525	
						RPD = 3.80	
11 PCB-1268							
1	6.075	6.076	-0.001	70935317	1.00	0.9031	
1	6.115	6.115	0.000	72193667	1.00	0.9500	
1	6.317	6.318	-0.001	56833676	1.00	0.9303	
1	6.702	6.703	-0.001	28511059	1.00	0.9183	
1	7.005	7.004	0.001	193651952	1.00	0.9551	
		Average of Peak Amounts =				0.9314	
2	7.020	7.020	0.000	78832278	1.00	0.9491	
2	7.067	7.069	-0.002	82276709	1.00	0.9671	
2	7.334	7.332	0.002	64450818	1.00	0.9480	
2	7.652	7.650	0.002	30282008	1.00	0.9304	
2	7.996	7.995	0.001	225780946	1.00	0.99	
		Average of Peak Amounts =				0.9571	
						RPD = 2.73	

Reagents:

SG42/68@1.0PP_00003 Amount Added: 1.00 Units: mL

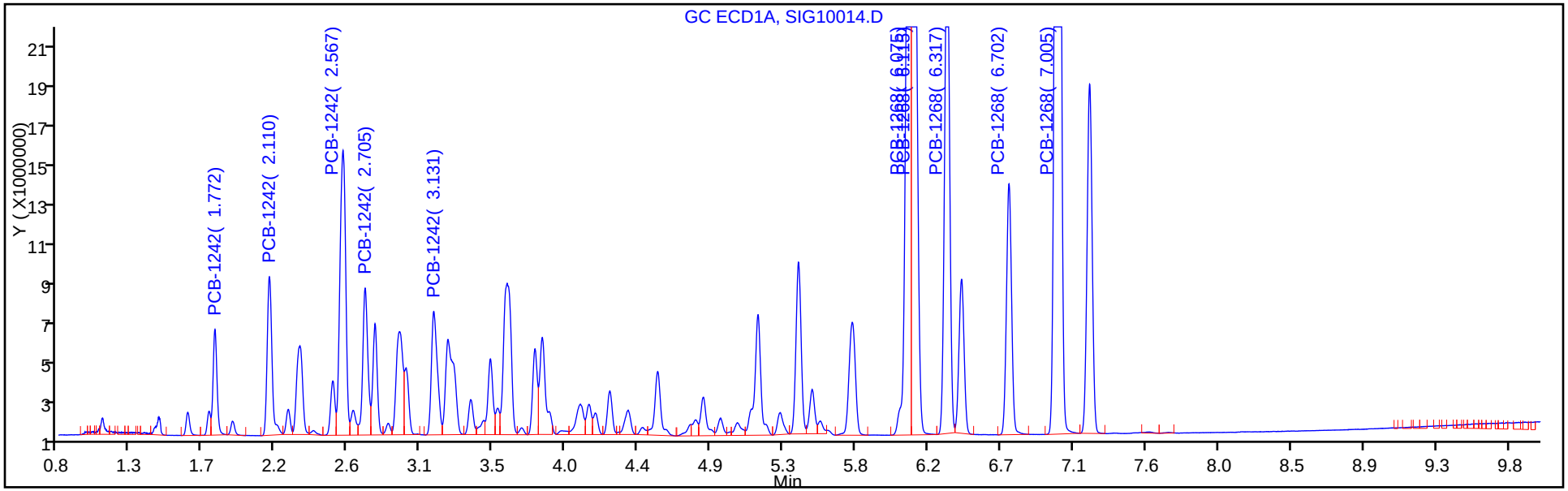
Report Date: 31-Mar-2015 06:14:05 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

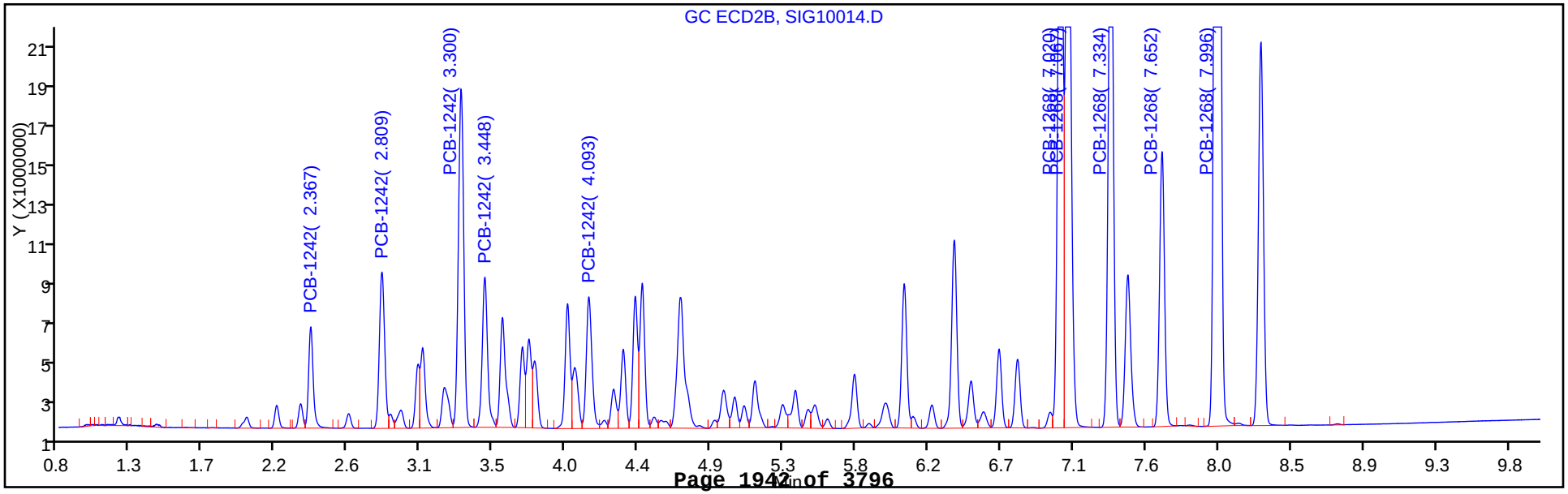
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10014.D

Injection Date:	30-Mar-2015 18:16:20	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1242 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10015.D
Lims ID: STD2 1242 1268
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 18:31:51 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-015
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub11

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:05 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1	1.772	1.771	0.001	16610779	2.00	1.63	
1	2.111	2.111	0.000	30346707	2.00	1.62	
1	2.568	2.563	0.005	67339937	2.00	1.68	
1	2.704	2.706	-0.002	30316085	2.00	1.69	
1	3.130	3.131	-0.001	30004654	2.00	1.69	
		Average of Peak Amounts =				1.66	
2	2.366	2.369	-0.003	18998989	2.00	1.93	
2	2.808	2.811	-0.003	34158044	2.00	1.93	
2	3.300	3.301	-0.001	77729306	2.00	1.78	
2	3.447	3.447	0.000	33188564	2.00	1.66	
2	4.093	4.093	0.000	31281793	2.00	1.69	
		Average of Peak Amounts =				1.80	
						RPD = 7.83	
11 PCB-1268							
1	6.077	6.076	0.001	137050307	2.00	1.74	
1	6.114	6.115	-0.001	135795996	2.00	1.79	
1	6.317	6.318	-0.001	110088127	2.00	1.80	
1	6.701	6.703	-0.002	53989213	2.00	1.74	
1	7.003	7.004	-0.001	371381665	2.00	1.83	
		Average of Peak Amounts =				1.78	
2	7.021	7.020	0.001	155818616	2.00	1.88	
2	7.068	7.069	-0.001	161621548	2.00	1.90	
2	7.333	7.332	0.001	127789469	2.00	1.88	
2	7.652	7.650	0.002	59873041	2.00	1.84	
2	7.996	7.995	0.001	442534558	2.00	1.94	
		Average of Peak Amounts =				1.89	
						RPD = 5.81	

Reagents:

SG4268@2.0PPM_00002 Amount Added: 1.00 Units: mL

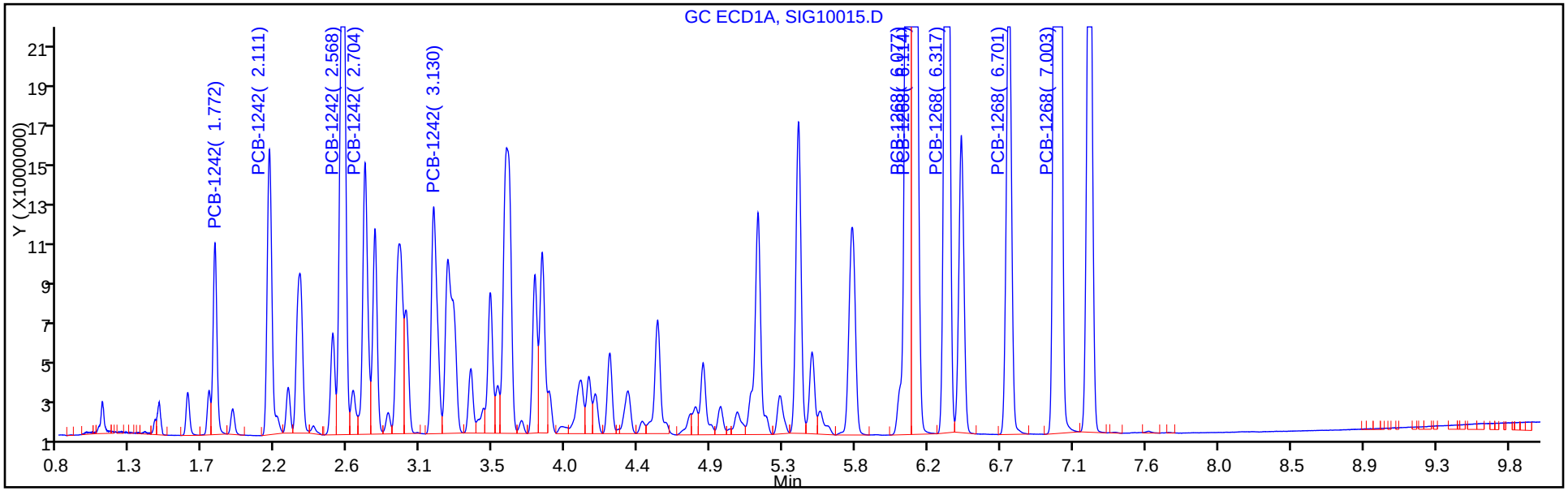
Report Date: 31-Mar-2015 06:14:07 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

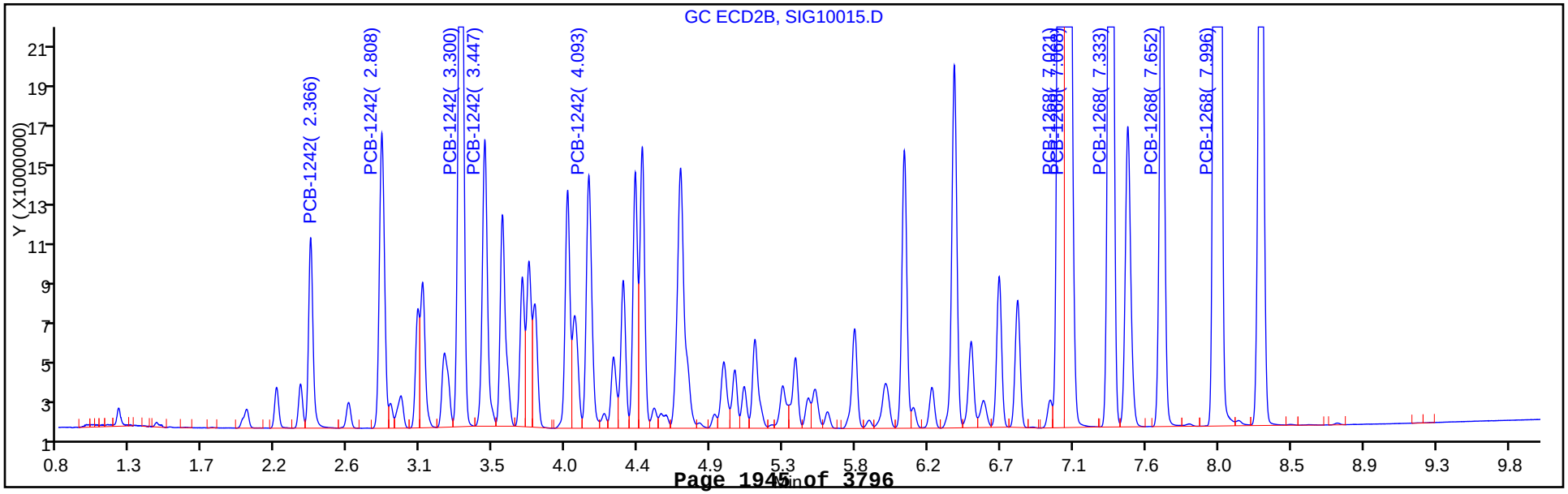
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10015.D

Injection Date:	30-Mar-2015 18:31:51	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1242 1268			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 18:47 Calibration End Date: 03/30/2015 20:05 Calibration ID: 27539

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/16	SIG10016.D
Level 2	STD01 240-174339/17	SIG10017.D
Level 3	STD02 240-174339/18	SIG10018.D
Level 4	STD05 240-174339/19	SIG10019.D
Level 5	STD1 240-174339/20	SIG10020.D
Level 6	STD2 240-174339/21	SIG10021.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	2.108	2.109	2.108	2.109	2.108	2.114					2.058 - 2.158	2.109
PCB-1248 Peak 2	2.563	2.566	2.565	2.566	2.565	2.569					2.513 - 2.613	2.566
PCB-1248 Peak 3	3.128	3.133	3.130	3.130	3.130	3.135					3.078 - 3.178	3.131
PCB-1248 Peak 4	3.758	3.761	3.759	3.760	3.760	3.765					3.708 - 3.808	3.761
PCB-1248 Peak 5	4.223	4.224	4.225	4.222	4.224	4.229					4.173 - 4.273	4.225

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 18:47 Calibration End Date: 03/30/2015 20:05 Calibration ID: 27539

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/16	SIG10016.D
Level 2	STD01 240-174339/17	SIG10017.D
Level 3	STD02 240-174339/18	SIG10018.D
Level 4	STD05 240-174339/19	SIG10019.D
Level 5	STD1 240-174339/20	SIG10020.D
Level 6	STD2 240-174339/21	SIG10021.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	11210480 8317950	9778240 7600051	10438860	9128742	Ave		9412387.17				14.2		20.0			
PCB-1248 Peak 2	32509700 23303535	28523740 21869608	27947360	25389612	Ave		26590592.5				14.6		20.0			
PCB-1248 Peak 3	33714760 24508425	29904540 22640212	29309465	26696470	Ave		27795645.3				14.4		20.0			
PCB-1248 Peak 4	18987320 14571930	17012170 13922607	17001430	16026472	Ave		16253654.8				11.3		20.0			
PCB-1248 Peak 5	15715760 11675176	13644570 11424881	14111720	12830662	Ave		13233794.8				12.2		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 18:47 Calibration End Date: 03/30/2015 20:05 Calibration ID: 27539

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/16	SIG10016.D
Level 2	STD01 240-174339/17	SIG10017.D
Level 3	STD02 240-174339/18	SIG10018.D
Level 4	STD05 240-174339/19	SIG10019.D
Level 5	STD1 240-174339/20	SIG10020.D
Level 6	STD2 240-174339/21	SIG10021.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	560524 15200102	977824	2087772	4564371	8317950	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	1625485 43739216	2852374	5589472	12694806	23303535	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	1685738 45280424	2990454	5861893	13348235	24508425	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	949366 27845213	1701217	3400286	8013236	14571930	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	785788 22849761	1364457	2822344	6415331	11675176	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10016.D
Lims ID: STD005 1248
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 18:47:21 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-016
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:07 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:05:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.108	2.108	0.000	560524	0.0500	0.0596	
1	2.563	2.563	0.000	1625485	0.0500	0.0611	
1	3.128	3.128	0.000	1685738	0.0500	0.0606	
1	3.758	3.758	0.000	949366	0.0500	0.0584	
1	4.223	4.223	0.000	785788	0.0500	0.0594	
		Average of Peak Amounts =				0.0598	
2	2.807	2.807	0.000	726028	0.0500	0.0642	
2	3.296	3.296	0.000	1772934	0.0500	0.0615	
2	4.091	4.091	0.000	1635560	0.0500	0.0601	
2	4.423	4.423	0.000	1784798	0.0500	0.0597	
2	5.125	5.125	0.000	996946	0.0500	0.0598	
		Average of Peak Amounts =				0.0611	
						RPD = 2.05	

Reagents:

SG1248@.05ppm_00015 Amount Added: 1.00 Units: mL

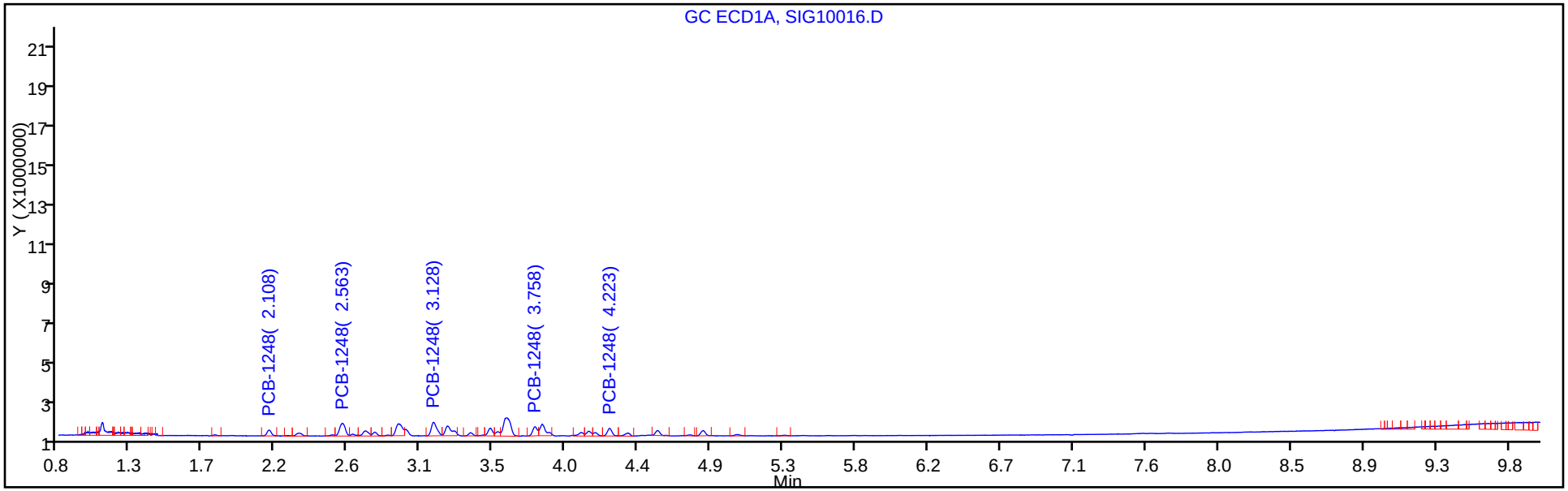
Report Date: 31-Mar-2015 06:14:08 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

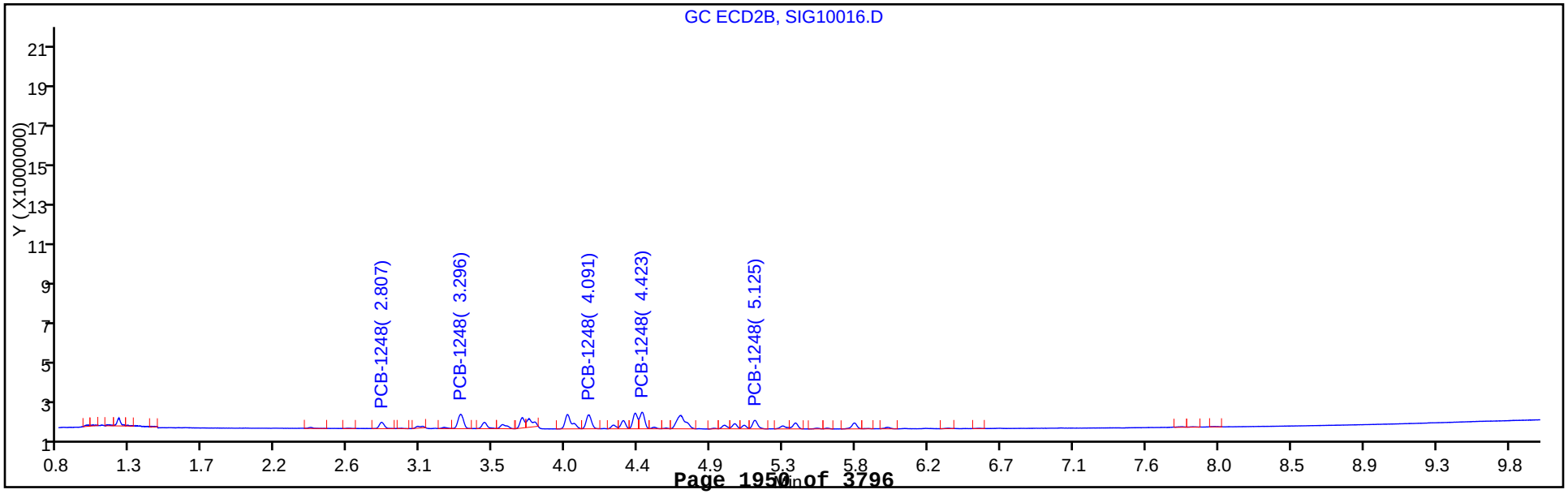
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10016.D

Injection Date:	30-Mar-2015 18:47:21	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1248			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10017.D
Lims ID: STD01 1248
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 19:02:59 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-017
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:09 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.109	2.108	0.001	977824	0.1000	0.1039	
1	2.566	2.563	0.003	2852374	0.1000	0.1073	
1	3.133	3.128	0.005	2990454	0.1000	0.1076	
1	3.761	3.758	0.003	1701217	0.1000	0.1047	
1	4.224	4.223	0.001	1364457	0.1000	0.1031	
		Average of Peak Amounts =				0.1053	
2	2.808	2.807	0.001	1272915	0.1000	0.1126	
2	3.299	3.296	0.003	3093016	0.1000	0.1074	
2	4.094	4.091	0.003	2841864	0.1000	0.1045	
2	4.424	4.423	0.001	3170679	0.1000	0.1060	
2	5.125	5.125	0.000	1829657	0.1000	0.1097	
		Average of Peak Amounts =				0.1080	
						RPD = 2.55	

Reagents:

SG1248@0.1PPM_00012 Amount Added: 1.00 Units: mL

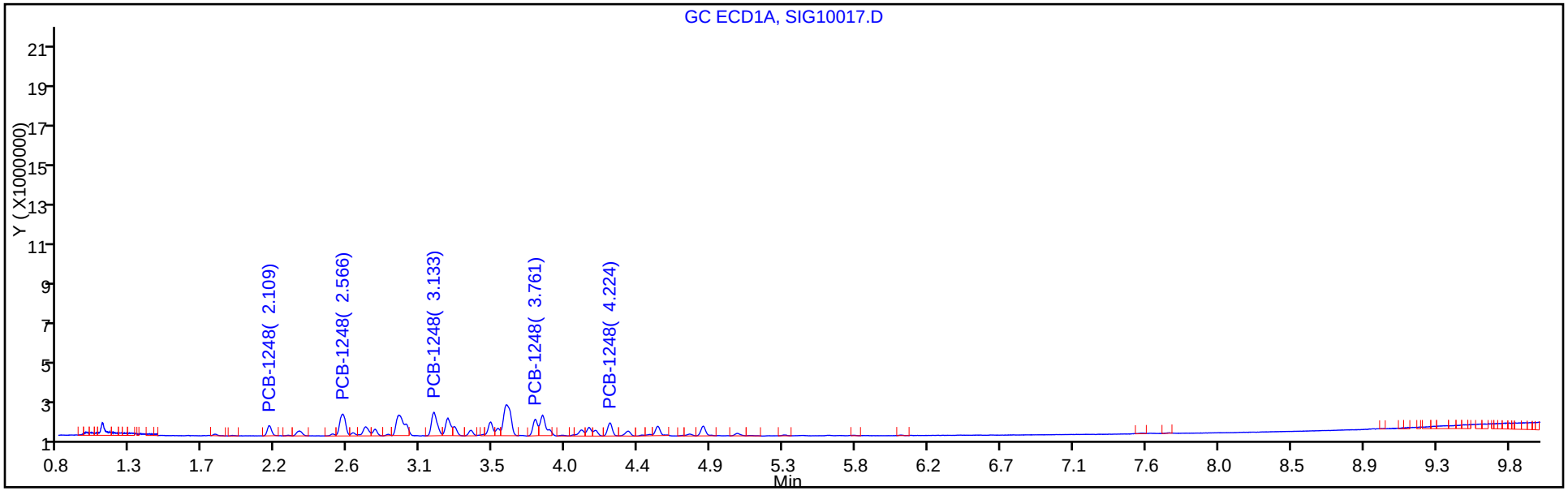
Report Date: 31-Mar-2015 06:14:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

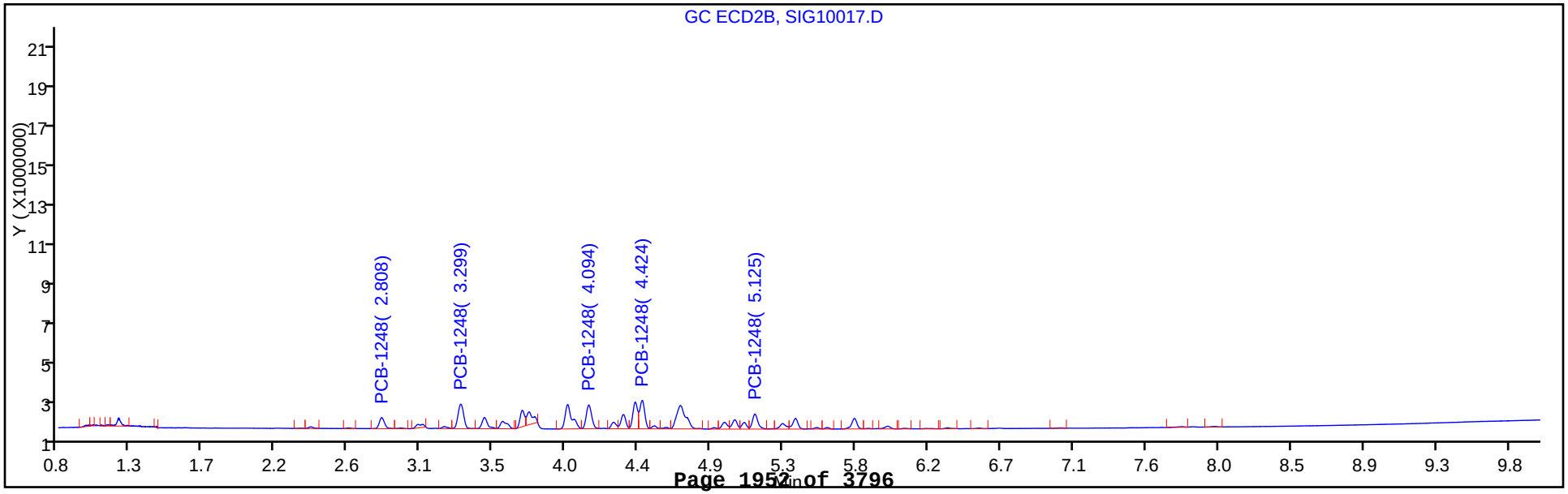
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10017.D

Injection Date:	30-Mar-2015 19:02:59	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1248			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10018.D
Lims ID: STD02 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 19:18:27 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-018
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:11 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.108	2.108	0.000	2087772	0.2000	0.2218	
1	2.565	2.563	0.002	5589472	0.2000	0.2102	
1	3.130	3.128	0.002	5861893	0.2000	0.2109	
1	3.759	3.758	0.001	3400286	0.2000	0.2092	
1	4.225	4.223	0.002	2822344	0.2000	0.2133	
		Average of Peak Amounts =				0.2131	
2	2.808	2.807	0.001	2377272	0.2000	0.2103	
2	3.299	3.296	0.003	5932934	0.2000	0.2060	
2	4.093	4.091	0.002	5697379	0.2000	0.2095	
2	4.424	4.423	0.001	6150649	0.2000	0.2056	
2	5.123	5.125	-0.002	3503560	0.2000	0.2100	
		Average of Peak Amounts =				0.2083	
						RPD = 2.28	

Reagents:

SG1248@0.2ppm_00012 Amount Added: 1.00 Units: mL

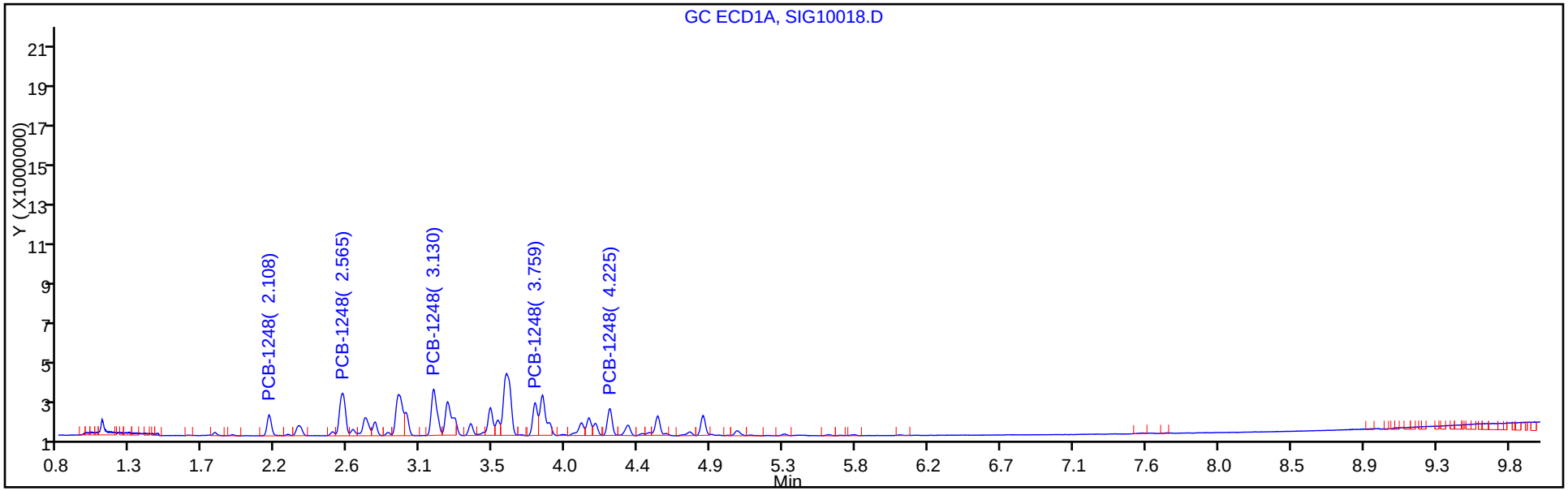
Report Date: 31-Mar-2015 06:14:12 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

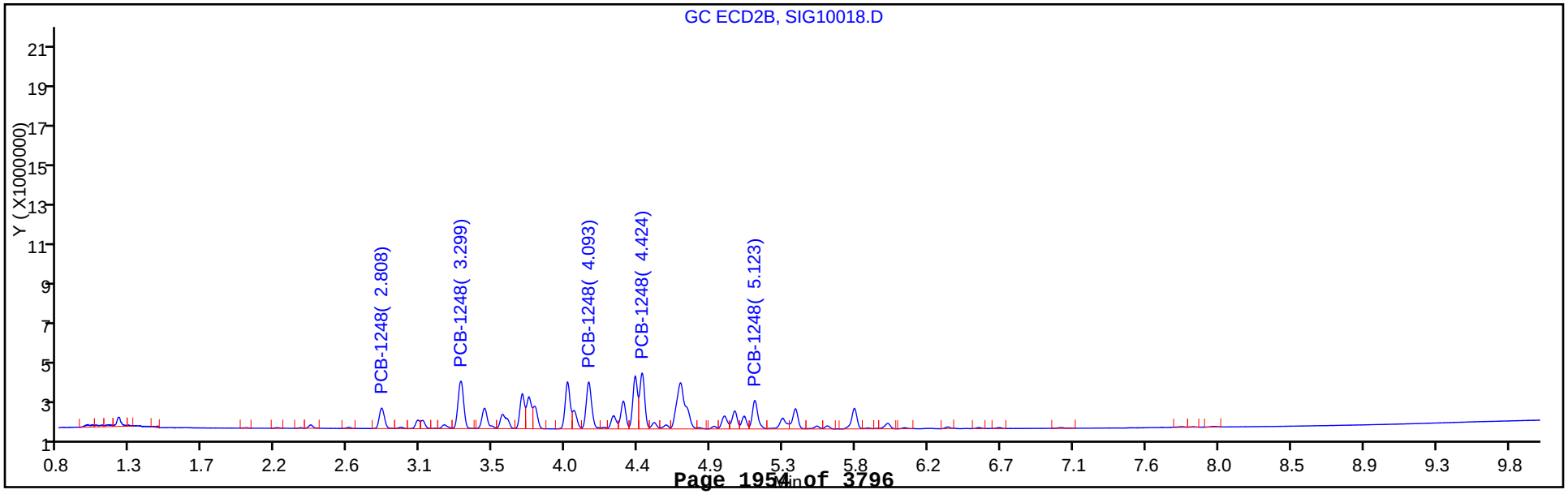
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10018.D

Injection Date:	30-Mar-2015 19:18:27	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1248			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10019.D
Lims ID: STD05 1248
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 19:33:56 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-019
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:13 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.109	2.108	0.001	4564371	0.5000	0.4849	
1	2.566	2.563	0.003	12694806	0.5000	0.4774	
1	3.130	3.128	0.002	13348235	0.5000	0.4802	
1	3.760	3.758	0.002	8013236	0.5000	0.4930	
1	4.222	4.223	-0.001	6415331	0.5000	0.4848	
		Average of Peak Amounts =				0.4841	
2	2.808	2.807	0.001	5276314	0.5000	0.4667	
2	3.299	3.296	0.003	13447918	0.5000	0.4668	
2	4.093	4.091	0.002	12961278	0.5000	0.4766	
2	4.424	4.423	0.001	14047865	0.5000	0.4696	
2	5.124	5.125	-0.001	7914566	0.5000	0.4744	
		Average of Peak Amounts =				0.4708	
						RPD = 2.77	

Reagents:

SG1248@0.5ppm_00015 Amount Added: 1.00 Units: mL

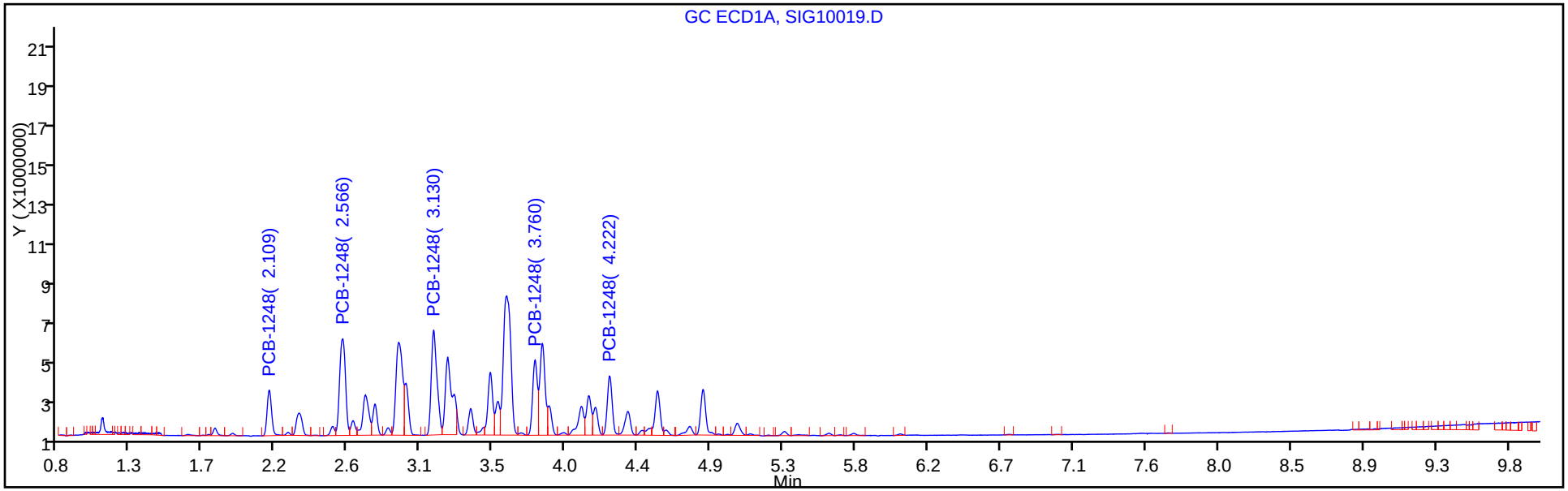
Report Date: 31-Mar-2015 06:14:14 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

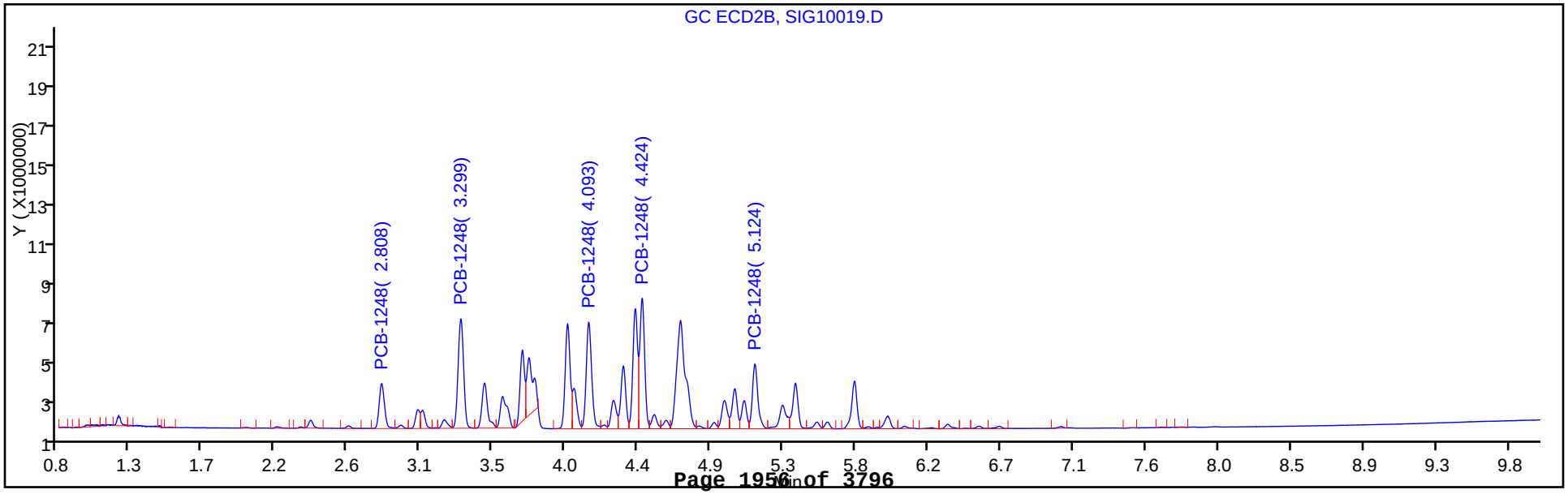
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10019.D

Injection Date:	30-Mar-2015 19:33:56	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1248			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10020.D
Lims ID: STD1 1248
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 19:49:28 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-020
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:15 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.108	2.108	0.000	8317950	1.00	0.8837	
1	2.565	2.563	0.002	23303535	1.00	0.8764	
1	3.130	3.128	0.002	24508425	1.00	0.8817	
1	3.760	3.758	0.002	14571930	1.00	0.8965	
1	4.224	4.223	0.001	11675176	1.00	0.8822	
		Average of Peak Amounts =				0.8841	
2	2.808	2.807	0.001	9441201	1.00	0.8350	
2	3.299	3.296	0.003	25240451	1.00	0.8762	
2	4.093	4.091	0.002	24161186	1.00	0.8884	
2	4.424	4.423	0.001	26813471	1.00	0.8964	
2	5.125	5.125	0.000	14485123	1.00	0.8683	
		Average of Peak Amounts =				0.8729	
						RPD = 1.28	

Reagents:

SG1248@1.0ppm_00010 Amount Added: 1.00 Units: mL

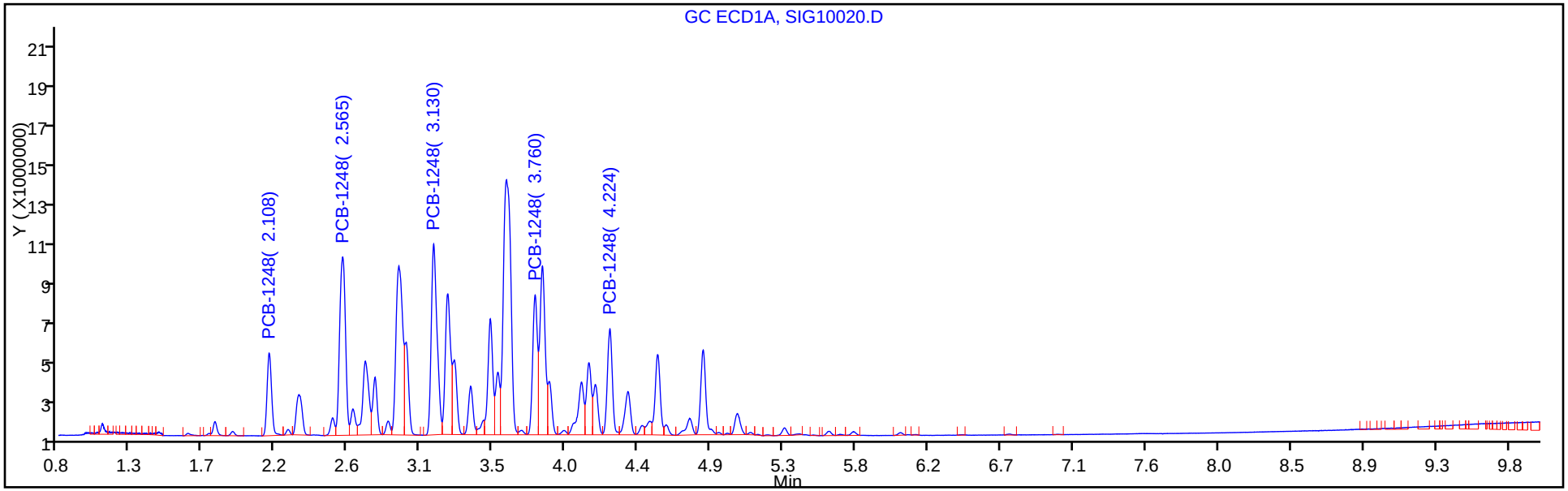
Report Date: 31-Mar-2015 06:14:17 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

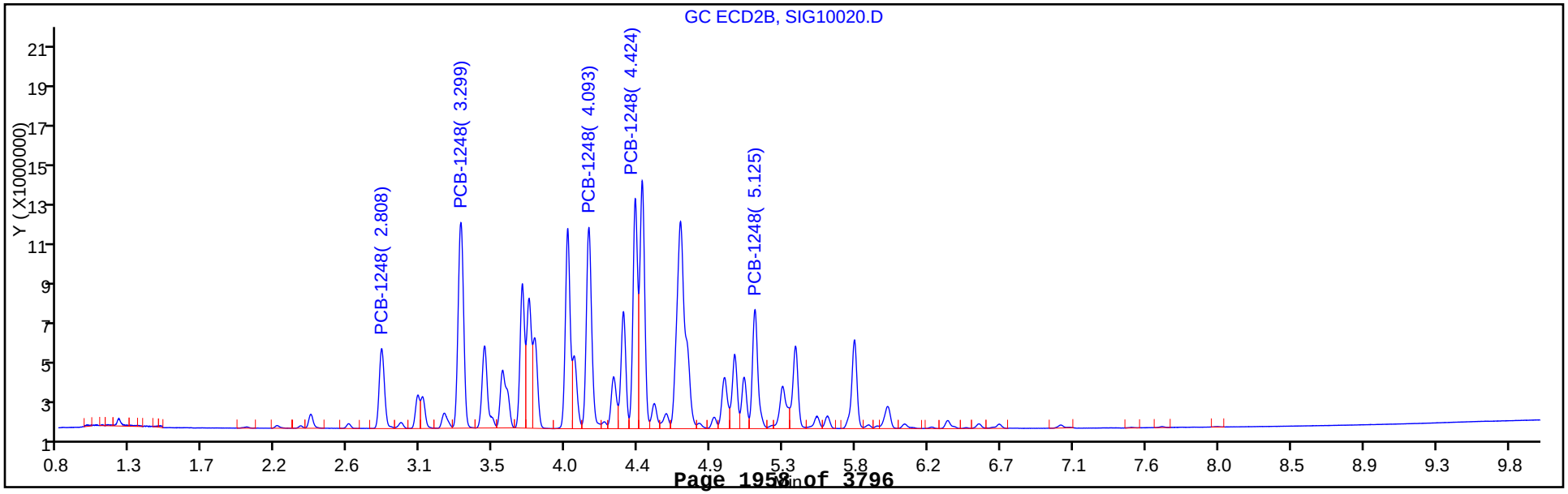
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10020.D

Injection Date:	30-Mar-2015 19:49:28	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1248			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10021.D
Lims ID: STD2 1248
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 20:05:05 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-021
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:17 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.114	2.108	0.006	15200102	2.00	1.61	
1	2.569	2.563	0.006	43739216	2.00	1.64	
1	3.135	3.128	0.007	45280424	2.00	1.63	
1	3.765	3.758	0.007	27845213	2.00	1.71	
1	4.229	4.223	0.006	22849761	2.00	1.73	
		Average of Peak Amounts =				1.67	
2	2.811	2.807	0.004	17418422	2.00	1.54	
2	3.304	3.296	0.008	49308624	2.00	1.71	
2	4.098	4.091	0.007	46958450	2.00	1.73	
2	4.429	4.423	0.006	52808122	2.00	1.77	
2	5.129	5.125	0.004	28060900	2.00	1.68	
		Average of Peak Amounts =				1.69	
						RPD = 1.17	

Reagents:

SG1248@2.0ppm_00010 Amount Added: 1.00 Units: mL

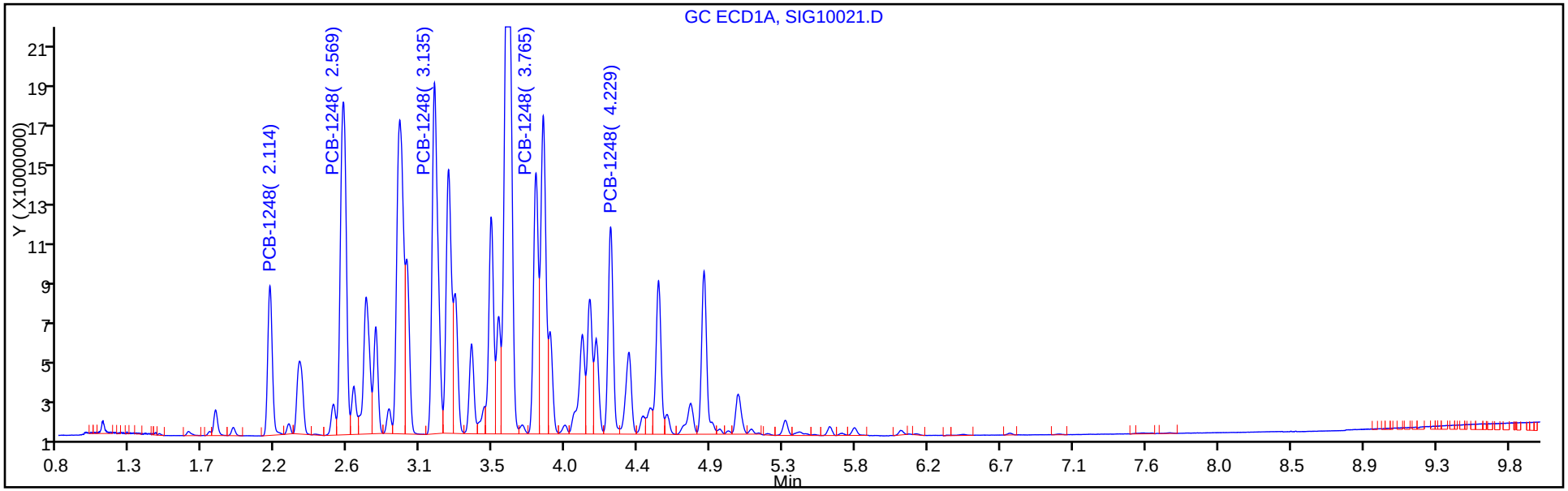
Report Date: 31-Mar-2015 06:14:19 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

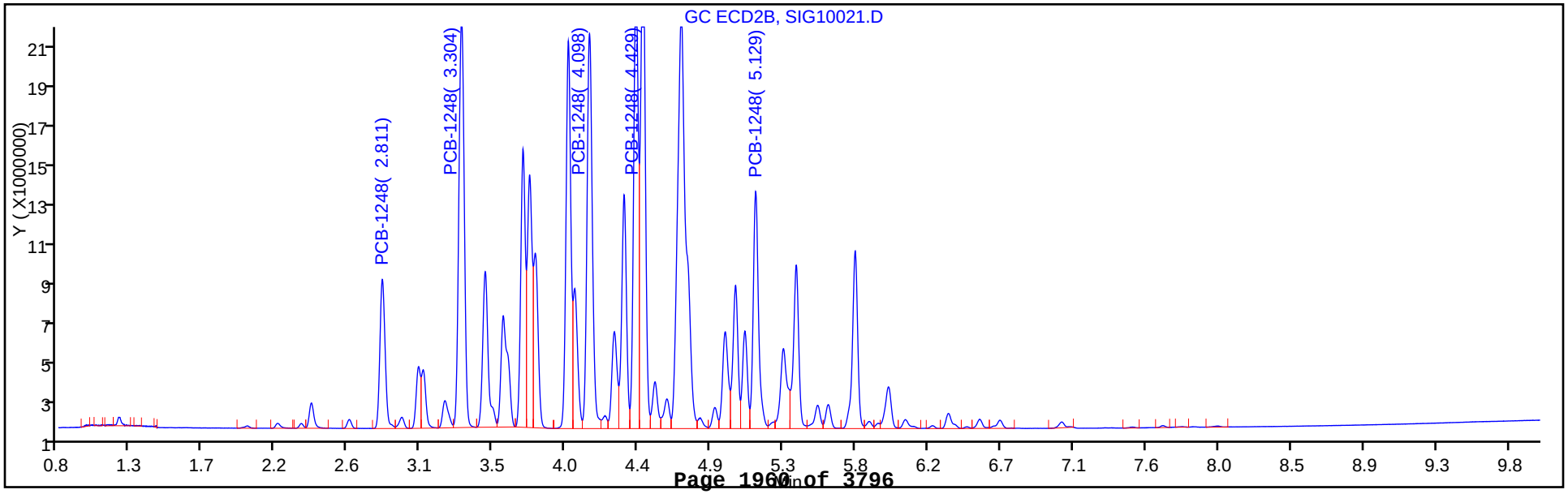
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10021.D

Injection Date:	30-Mar-2015 20:05:05	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1248			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 18:47 Calibration End Date: 03/30/2015 20:05 Calibration ID: 27540

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/16	SIG10016.D
Level 2	STD01 240-174339/17	SIG10017.D
Level 3	STD02 240-174339/18	SIG10018.D
Level 4	STD05 240-174339/19	SIG10019.D
Level 5	STD1 240-174339/20	SIG10020.D
Level 6	STD2 240-174339/21	SIG10021.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	2.807	2.808	2.808	2.808	2.808	2.811					2.757 - 2.857	2.808
PCB-1248 Peak 2	3.296	3.299	3.299	3.299	3.299	3.304					3.246 - 3.346	3.299
PCB-1248 Peak 3	4.091	4.094	4.093	4.093	4.093	4.098					4.041 - 4.141	4.094
PCB-1248 Peak 4	4.423	4.424	4.424	4.424	4.424	4.429					4.373 - 4.473	4.425
PCB-1248 Peak 5	5.125	5.125	5.123	5.124	5.125	5.129					5.075 - 5.175	5.125

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 18:47 Calibration End Date: 03/30/2015 20:05 Calibration ID: 27540

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/16	SIG10016.D
Level 2	STD01 240-174339/17	SIG10017.D
Level 3	STD02 240-174339/18	SIG10018.D
Level 4	STD05 240-174339/19	SIG10019.D
Level 5	STD1 240-174339/20	SIG10020.D
Level 6	STD2 240-174339/21	SIG10021.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	14520560 9441201	12729150 8709211	11886360	10552628	Ave		11306518.3				19.2		20.0			
PCB-1248 Peak 2	35458680 25240451	30930160 24654312	29664670	26895836	Ave		28807351.5				14.2		20.0			
PCB-1248 Peak 3	32711200 24161186	28418640 23479225	28486895	25922556	Ave		27196617.0				12.5		20.0			
PCB-1248 Peak 4	35695960 26813471	31706790 26404061	30753245	28095730	Ave		29911542.8				11.8		20.0			
PCB-1248 Peak 5	19938920 14485123	18296570 14030450	17517800	15829132	Ave		16682999.2				13.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 18:47 Calibration End Date: 03/30/2015 20:05 Calibration ID: 27540

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/16	SIG10016.D
Level 2	STD01 240-174339/17	SIG10017.D
Level 3	STD02 240-174339/18	SIG10018.D
Level 4	STD05 240-174339/19	SIG10019.D
Level 5	STD1 240-174339/20	SIG10020.D
Level 6	STD2 240-174339/21	SIG10021.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	726028 17418422	1272915	2377272	5276314	9441201	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	1772934 49308624	3093016	5932934	13447918	25240451	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	1635560 46958450	2841864	5697379	12961278	24161186	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	1784798 52808122	3170679	6150649	14047865	26813471	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	996946 28060900	1829657	3503560	7914566	14485123	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10016.D
Lims ID: STD005 1248
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 18:47:21 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-016
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:07 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:05:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.108	2.108	0.000	560524	0.0500	0.0596	
1	2.563	2.563	0.000	1625485	0.0500	0.0611	
1	3.128	3.128	0.000	1685738	0.0500	0.0606	
1	3.758	3.758	0.000	949366	0.0500	0.0584	
1	4.223	4.223	0.000	785788	0.0500	0.0594	
		Average of Peak Amounts =				0.0598	
2	2.807	2.807	0.000	726028	0.0500	0.0642	
2	3.296	3.296	0.000	1772934	0.0500	0.0615	
2	4.091	4.091	0.000	1635560	0.0500	0.0601	
2	4.423	4.423	0.000	1784798	0.0500	0.0597	
2	5.125	5.125	0.000	996946	0.0500	0.0598	
		Average of Peak Amounts =				0.0611	
						RPD = 2.05	

Reagents:

SG1248@.05ppm_00015 Amount Added: 1.00 Units: mL

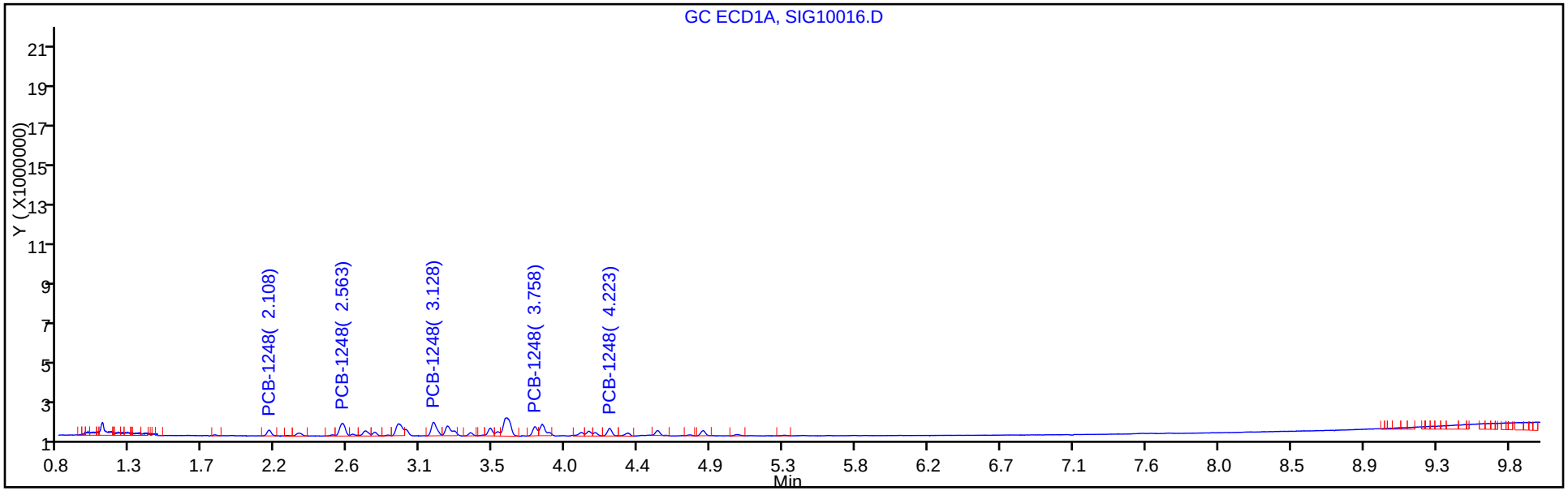
Report Date: 31-Mar-2015 06:14:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

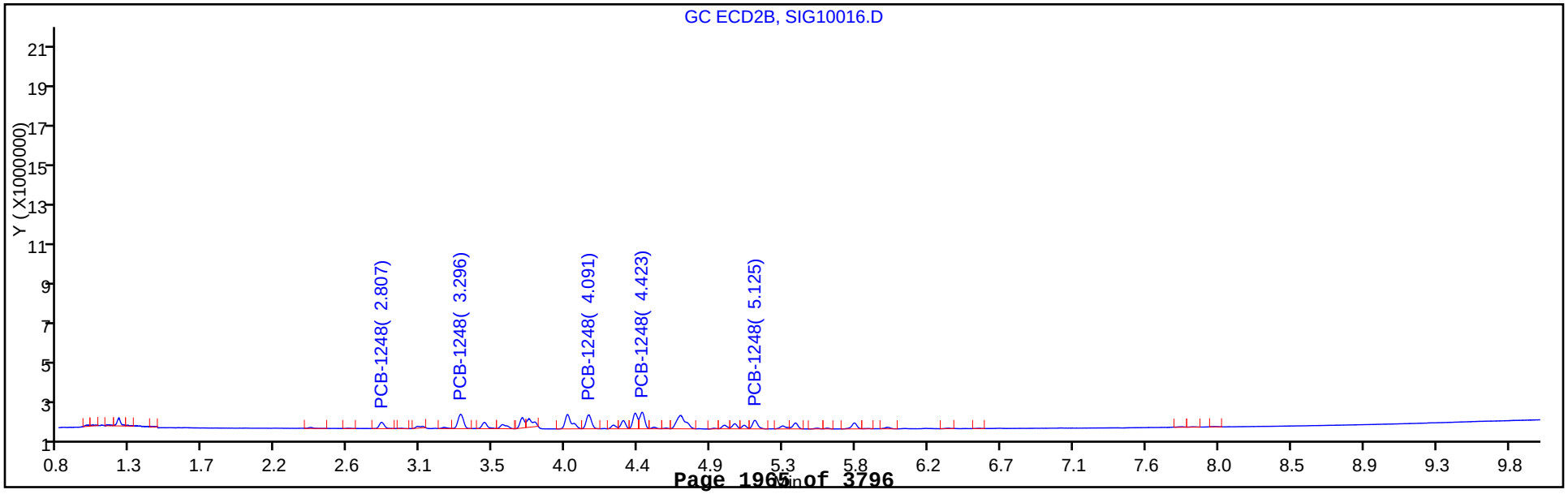
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10016.D

Injection Date:	30-Mar-2015 18:47:21	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1248			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10017.D
Lims ID: STD01 1248
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 19:02:59 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-017
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:09 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.109	2.108	0.001	977824	0.1000	0.1039	
1	2.566	2.563	0.003	2852374	0.1000	0.1073	
1	3.133	3.128	0.005	2990454	0.1000	0.1076	
1	3.761	3.758	0.003	1701217	0.1000	0.1047	
1	4.224	4.223	0.001	1364457	0.1000	0.1031	
		Average of Peak Amounts =				0.1053	
2	2.808	2.807	0.001	1272915	0.1000	0.1126	
2	3.299	3.296	0.003	3093016	0.1000	0.1074	
2	4.094	4.091	0.003	2841864	0.1000	0.1045	
2	4.424	4.423	0.001	3170679	0.1000	0.1060	
2	5.125	5.125	0.000	1829657	0.1000	0.1097	
		Average of Peak Amounts =				0.1080	
						RPD = 2.55	

Reagents:

SG1248@0.1PPM_00012 Amount Added: 1.00 Units: mL

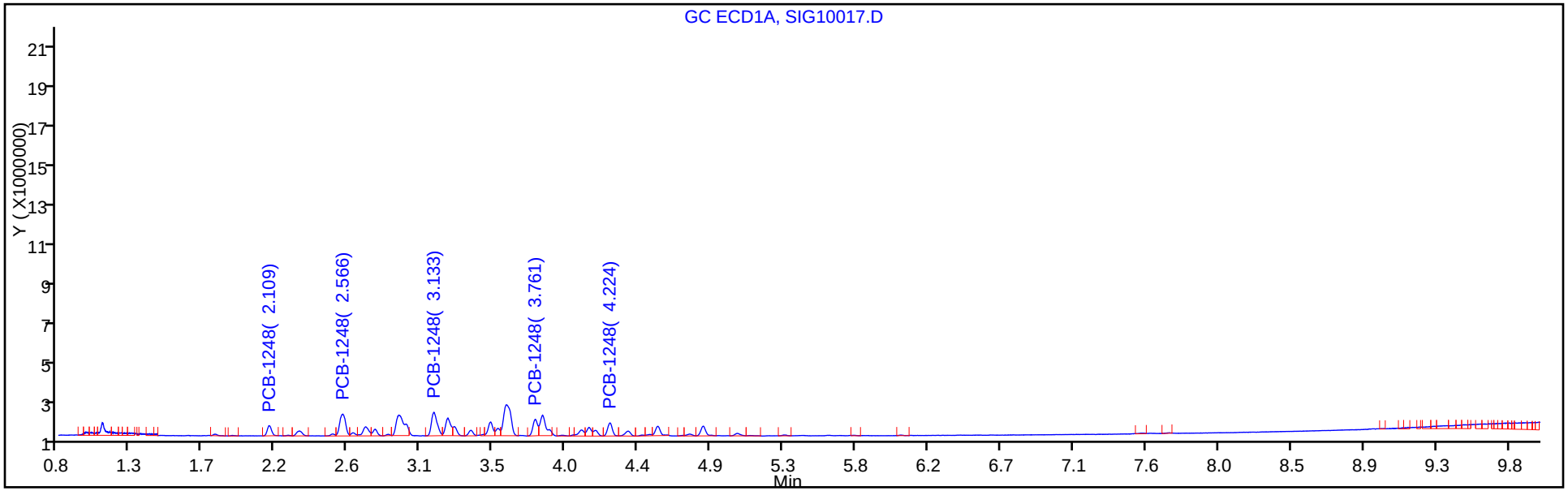
Report Date: 31-Mar-2015 06:14:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

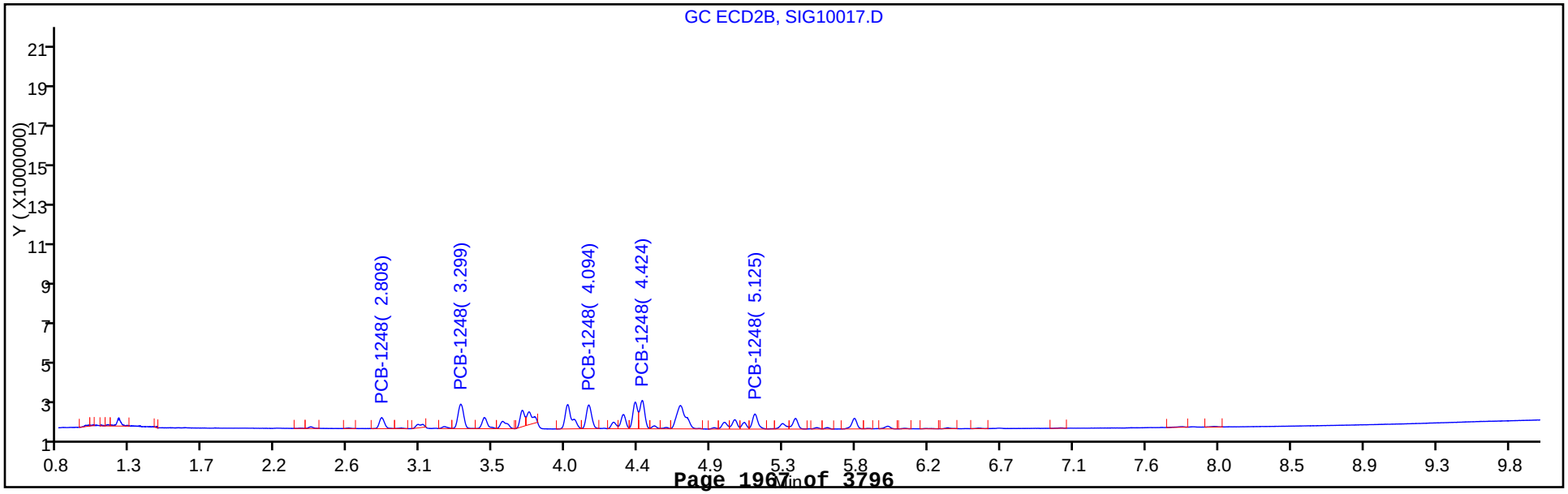
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10017.D

Injection Date:	30-Mar-2015 19:02:59	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1248			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10018.D
Lims ID: STD02 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 19:18:27 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-018
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:11 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.108	2.108	0.000	2087772	0.2000	0.2218	
1	2.565	2.563	0.002	5589472	0.2000	0.2102	
1	3.130	3.128	0.002	5861893	0.2000	0.2109	
1	3.759	3.758	0.001	3400286	0.2000	0.2092	
1	4.225	4.223	0.002	2822344	0.2000	0.2133	
		Average of Peak Amounts =				0.2131	
2	2.808	2.807	0.001	2377272	0.2000	0.2103	
2	3.299	3.296	0.003	5932934	0.2000	0.2060	
2	4.093	4.091	0.002	5697379	0.2000	0.2095	
2	4.424	4.423	0.001	6150649	0.2000	0.2056	
2	5.123	5.125	-0.002	3503560	0.2000	0.2100	
		Average of Peak Amounts =				0.2083	
						RPD = 2.28	

Reagents:

SG1248@0.2ppm_00012 Amount Added: 1.00 Units: mL

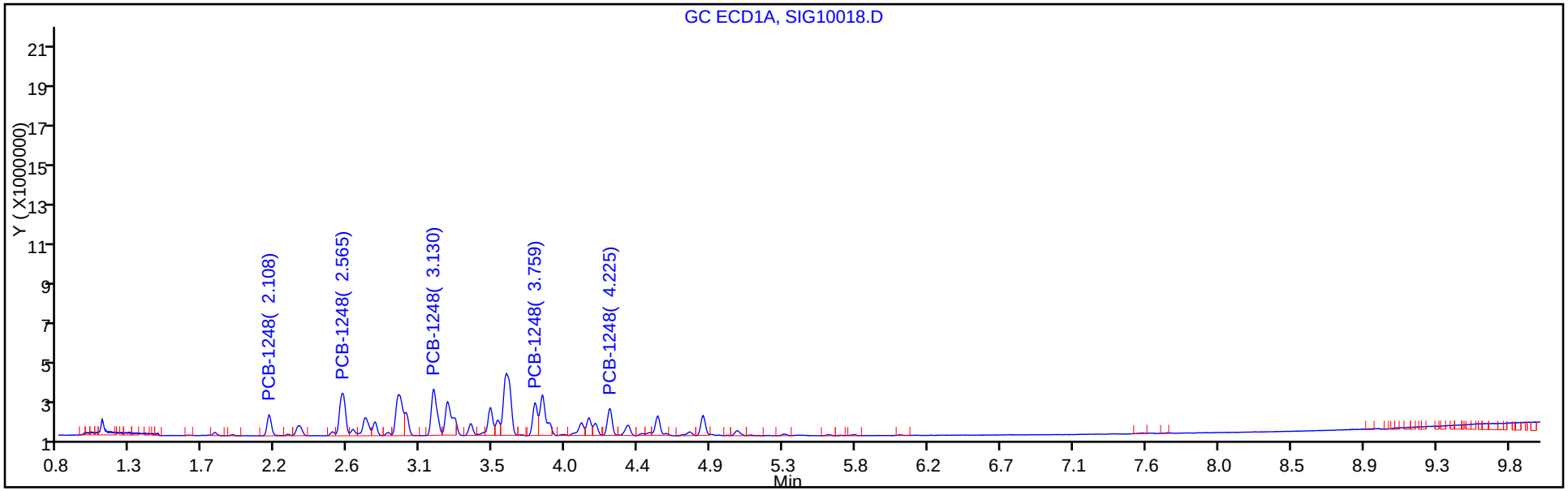
Report Date: 31-Mar-2015 06:14:12 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

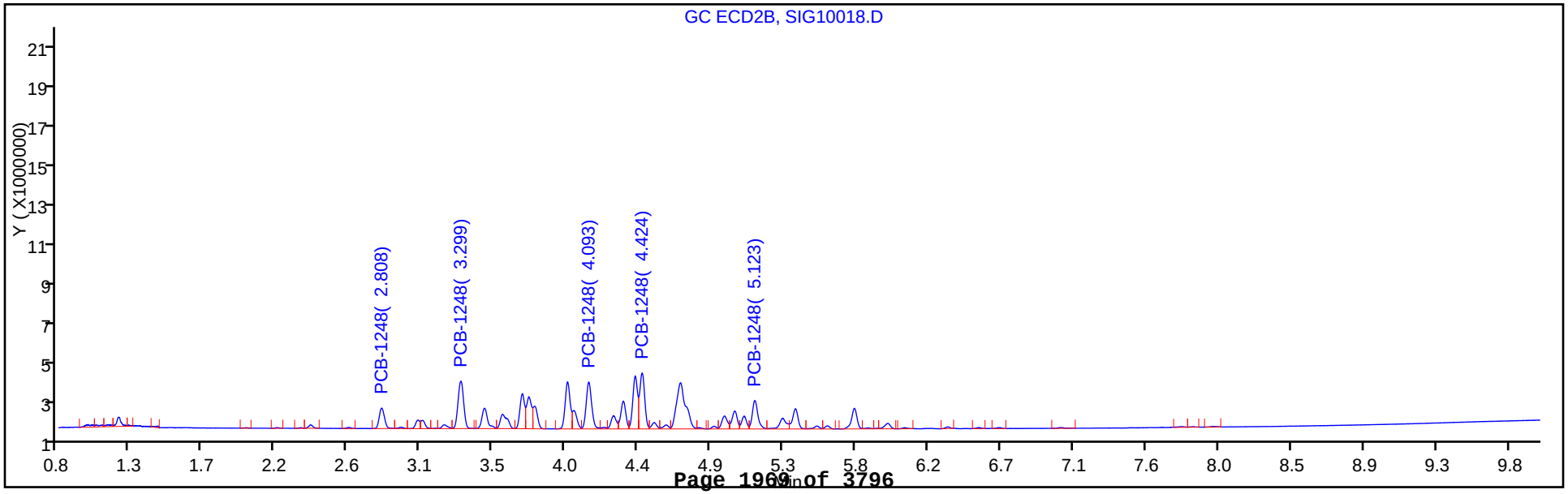
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10018.D

Injection Date:	30-Mar-2015 19:18:27	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1248			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10019.D
Lims ID: STD05 1248
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 19:33:56 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-019
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:13 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.109	2.108	0.001	4564371	0.5000	0.4849	
1	2.566	2.563	0.003	12694806	0.5000	0.4774	
1	3.130	3.128	0.002	13348235	0.5000	0.4802	
1	3.760	3.758	0.002	8013236	0.5000	0.4930	
1	4.222	4.223	-0.001	6415331	0.5000	0.4848	
		Average of Peak Amounts =				0.4841	
2	2.808	2.807	0.001	5276314	0.5000	0.4667	
2	3.299	3.296	0.003	13447918	0.5000	0.4668	
2	4.093	4.091	0.002	12961278	0.5000	0.4766	
2	4.424	4.423	0.001	14047865	0.5000	0.4696	
2	5.124	5.125	-0.001	7914566	0.5000	0.4744	
		Average of Peak Amounts =				0.4708	
						RPD = 2.77	

Reagents:

SG1248@0.5ppm_00015 Amount Added: 1.00 Units: mL

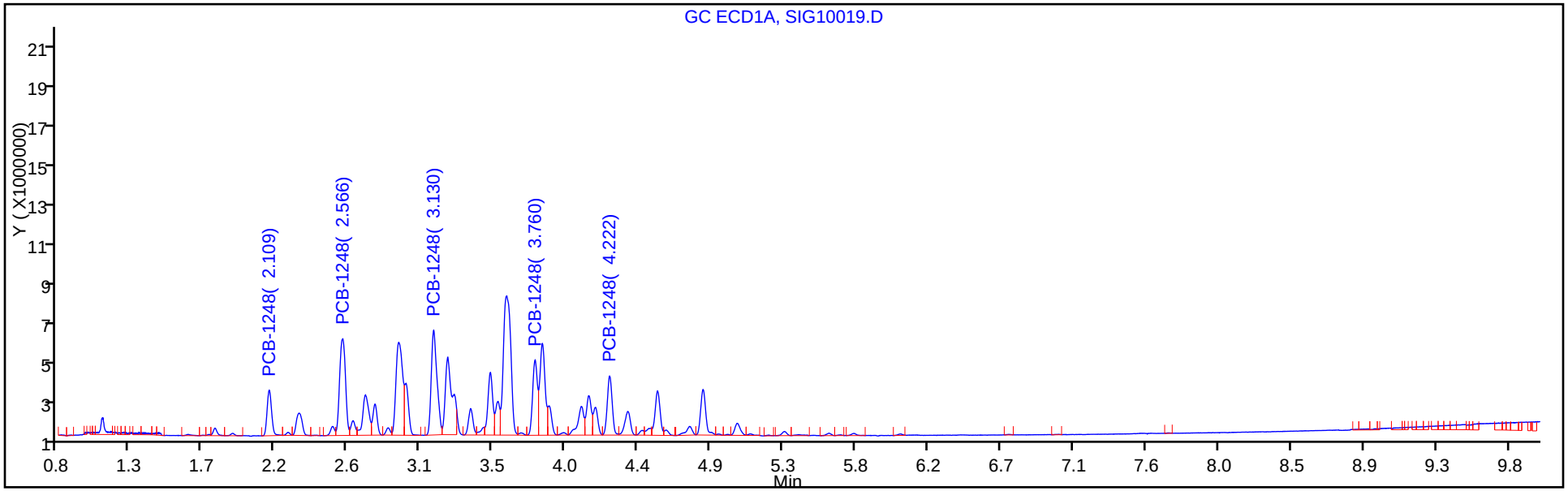
Report Date: 31-Mar-2015 06:14:15 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

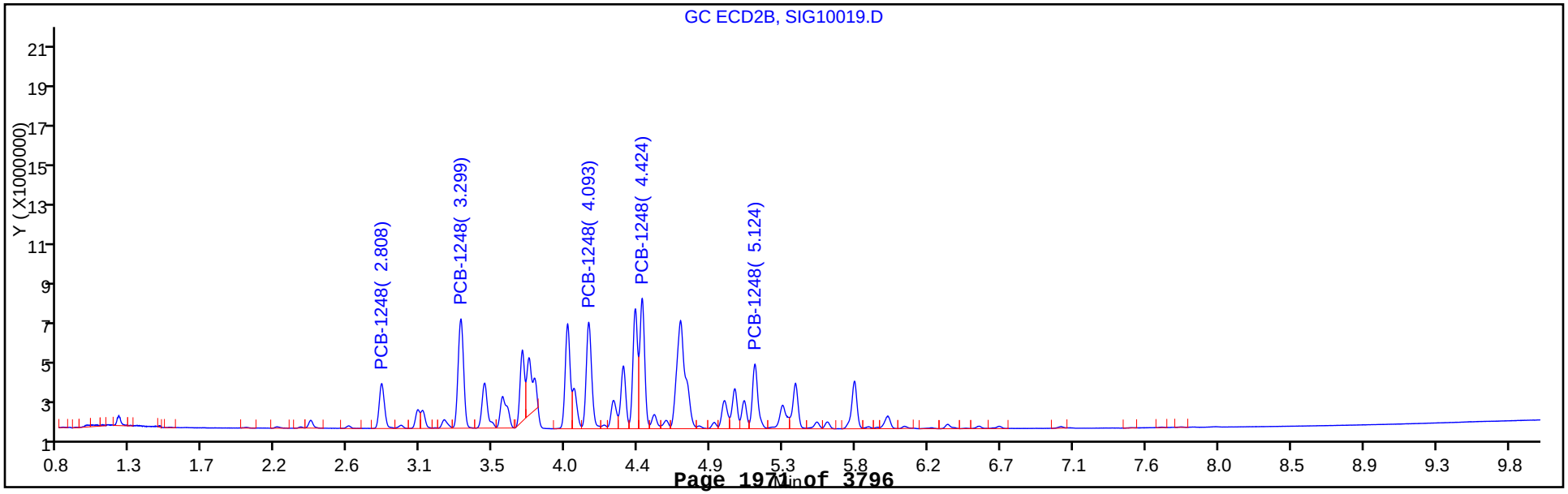
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10019.D

Injection Date:	30-Mar-2015 19:33:56	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1248			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10020.D
Lims ID: STD1 1248
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 19:49:28 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-020
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:15 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.108	2.108	0.000	8317950	1.00	0.8837	
1	2.565	2.563	0.002	23303535	1.00	0.8764	
1	3.130	3.128	0.002	24508425	1.00	0.8817	
1	3.760	3.758	0.002	14571930	1.00	0.8965	
1	4.224	4.223	0.001	11675176	1.00	0.8822	
		Average of Peak Amounts =				0.8841	
2	2.808	2.807	0.001	9441201	1.00	0.8350	
2	3.299	3.296	0.003	25240451	1.00	0.8762	
2	4.093	4.091	0.002	24161186	1.00	0.8884	
2	4.424	4.423	0.001	26813471	1.00	0.8964	
2	5.125	5.125	0.000	14485123	1.00	0.8683	
		Average of Peak Amounts =				0.8729	
						RPD = 1.28	

Reagents:

SG1248@1.0ppm_00010 Amount Added: 1.00 Units: mL

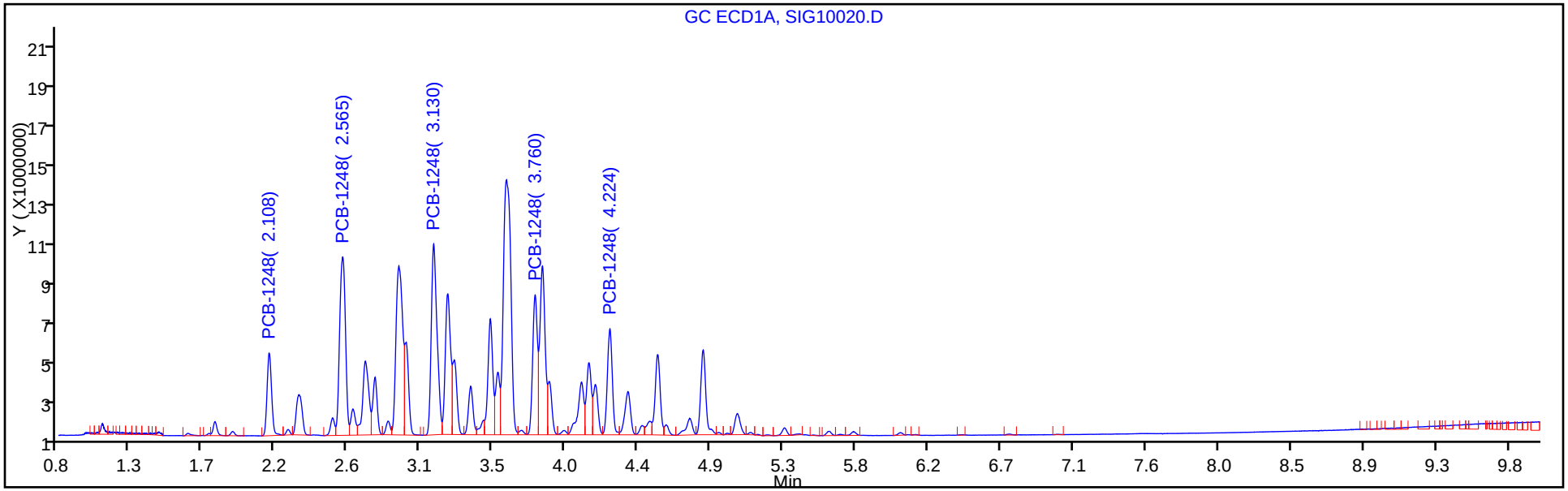
Report Date: 31-Mar-2015 06:14:17 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

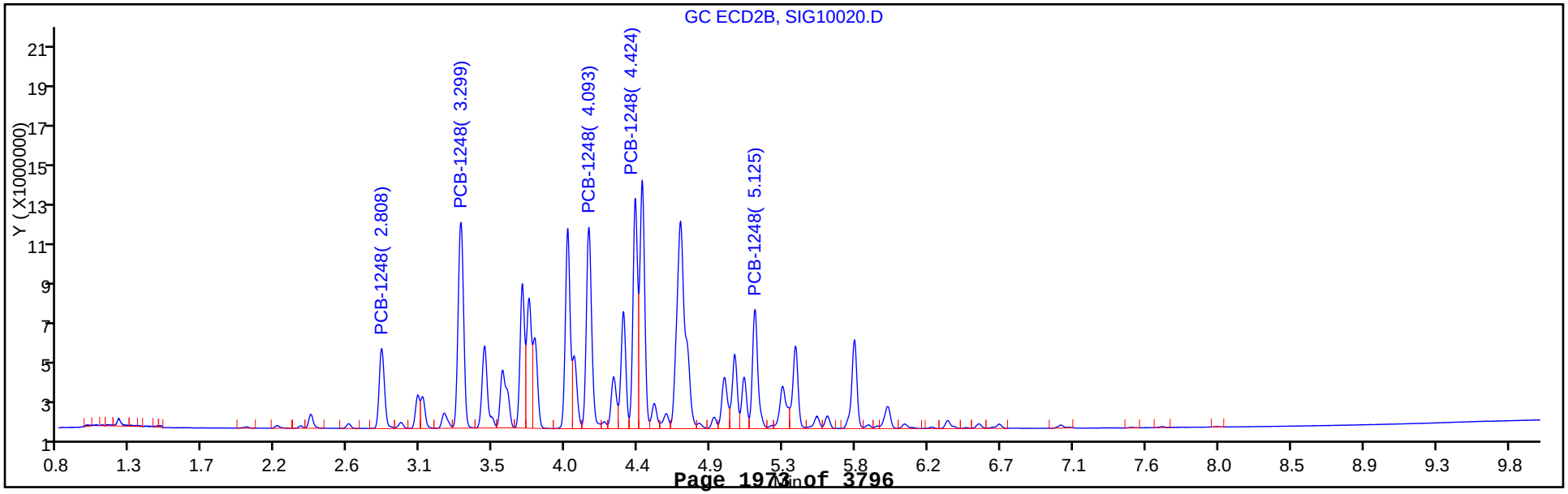
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10020.D

Injection Date:	30-Mar-2015 19:49:28	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1248			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10021.D
Lims ID: STD2 1248
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 20:05:05 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-021
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub3

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:17 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
7 PCB-1248							
1	2.114	2.108	0.006	15200102	2.00	1.61	
1	2.569	2.563	0.006	43739216	2.00	1.64	
1	3.135	3.128	0.007	45280424	2.00	1.63	
1	3.765	3.758	0.007	27845213	2.00	1.71	
1	4.229	4.223	0.006	22849761	2.00	1.73	
		Average of Peak Amounts =				1.67	
2	2.811	2.807	0.004	17418422	2.00	1.54	
2	3.304	3.296	0.008	49308624	2.00	1.71	
2	4.098	4.091	0.007	46958450	2.00	1.73	
2	4.429	4.423	0.006	52808122	2.00	1.77	
2	5.129	5.125	0.004	28060900	2.00	1.68	
		Average of Peak Amounts =				1.69	
						RPD = 1.17	

Reagents:

SG1248@2.0ppm_00010 Amount Added: 1.00 Units: mL

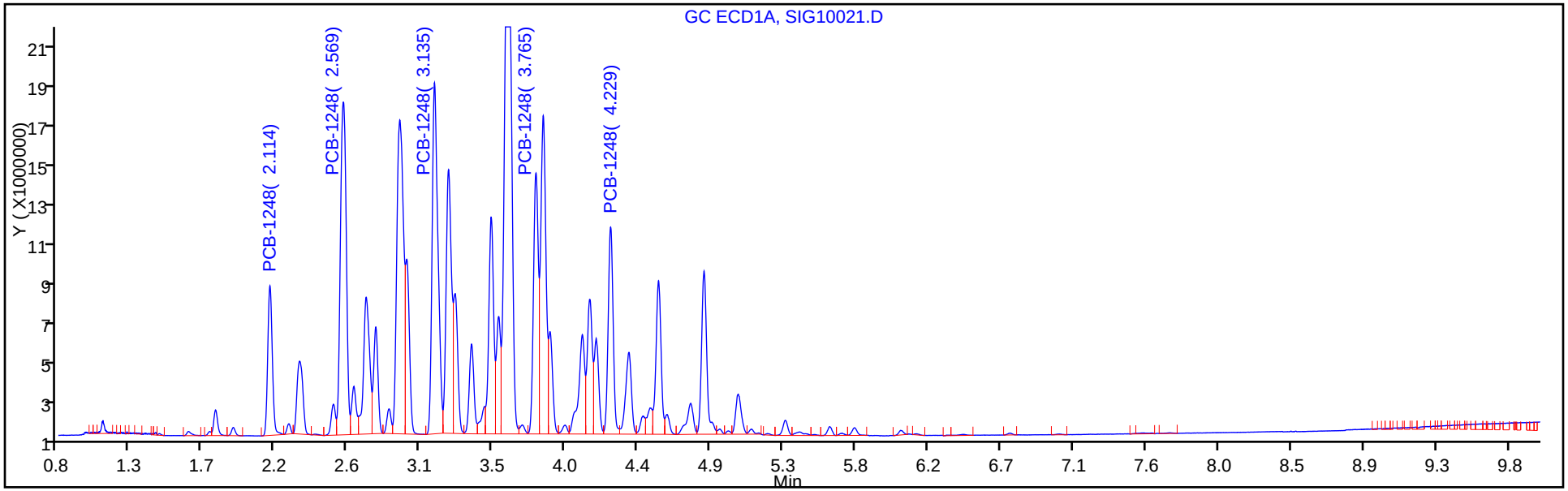
Report Date: 31-Mar-2015 06:14:19 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

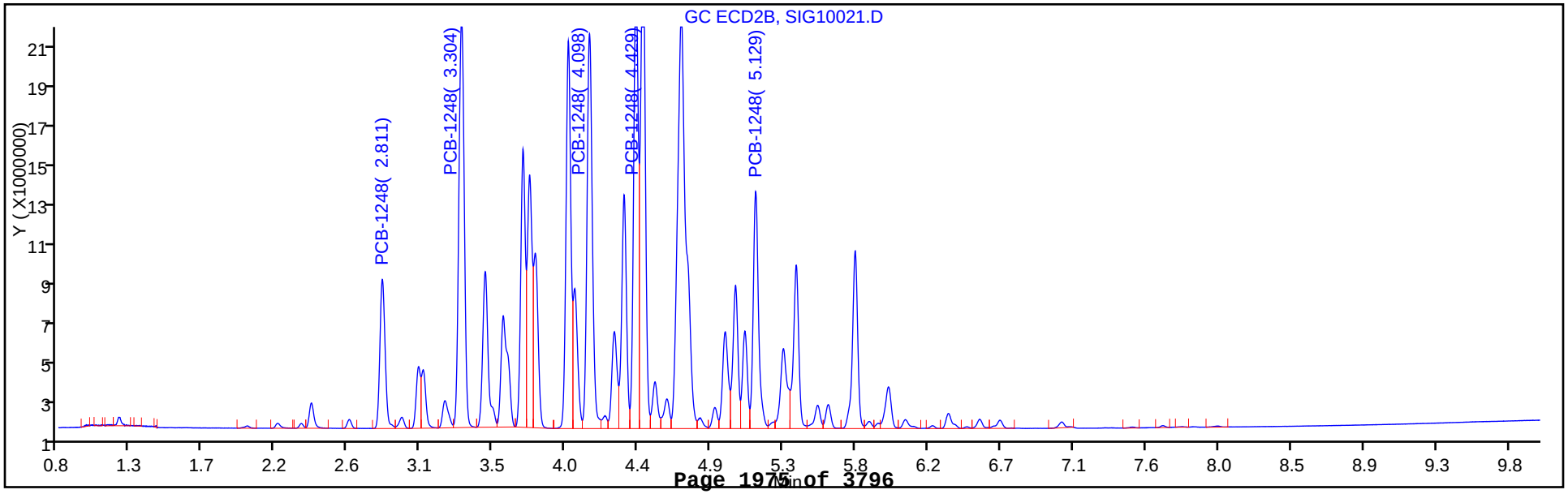
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10021.D

Injection Date:	30-Mar-2015 20:05:05	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1248			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 20:20 Calibration End Date: 03/30/2015 21:38 Calibration ID: 27545

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/22	SIG10022.D
Level 2	STD01 240-174339/23	SIG10023.D
Level 3	STD02 240-174339/24	SIG10024.D
Level 4	STD05 240-174339/25	SIG10025.D
Level 5	STD1 240-174339/26	SIG10026.D
Level 6	STD2 240-174339/27	SIG10027.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	1.606	1.606	1.610	1.611	1.610	1.611					1.556 - 1.656	1.609
PCB-1221 Peak 2	1.738	1.740	1.744	1.742	1.742	1.743					1.688 - 1.788	1.742
PCB-1221 Peak 3	1.775	1.775	1.779	1.779	1.779	1.780					1.725 - 1.825	1.778
PCB-1254 Peak 1	3.532	3.531	3.538	3.540	3.538	3.539					3.482 - 3.582	3.536
PCB-1254 Peak 2	3.815	3.816	3.821	3.821	3.821	3.821					3.765 - 3.865	3.819
PCB-1254 Peak 3	4.226	4.226	4.233	4.233	4.232	4.231					4.176 - 4.276	4.230
PCB-1254 Peak 4	4.526	4.524	4.530	4.530	4.530	4.531					4.476 - 4.576	4.529
PCB-1254 Peak 5	5.018	5.020	5.023	5.026	5.023	5.024					4.968 - 5.068	5.022

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 20:20 Calibration End Date: 03/30/2015 21:38 Calibration ID: 27545

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/22	SIG10022.D
Level 2	STD01 240-174339/23	SIG10023.D
Level 3	STD02 240-174339/24	SIG10024.D
Level 4	STD05 240-174339/25	SIG10025.D
Level 5	STD1 240-174339/26	SIG10026.D
Level 6	STD2 240-174339/27	SIG10027.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	9025600 6558989	8349640 5884256	8049750	6541332	Ave		7401594.42				16.8		20.0			
PCB-1221 Peak 2	5771360 4005985	5079080 3398885	4975565	3950358	Ave		4530205.42				19.6		20.0			
PCB-1221 Peak 3	21916960 15349192	20527630 13582285	19017210	15502010	Ave		17649214.5				18.8		20.0			
PCB-1254 Peak 1	27261340 18622173	25735100 16788045	23334895	19188870	Ave		21821737.2				19.4		20.0			
PCB-1254 Peak 2	40819240 35043301	44933210 31795543	43618575	34823784	Ave		38505608.8				13.9		20.0			
PCB-1254 Peak 3	53429280 37184949	50115160 33179986	43334780	36051076	Ave		42215871.8				19.4		20.0			
PCB-1254 Peak 4	37525840 29797677	37594460 27204721	33969550	29469208	Ave		32593576.1				13.6		20.0			
PCB-1254 Peak 5	49422600 37199314	46041930 33465509	42636450	36510034	Ave		40879306.2				15.1		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 20:20 Calibration End Date: 03/30/2015 21:38 Calibration ID: 27545

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/22	SIG10022.D
Level 2	STD01 240-174339/23	SIG10023.D
Level 3	STD02 240-174339/24	SIG10024.D
Level 4	STD05 240-174339/25	SIG10025.D
Level 5	STD1 240-174339/26	SIG10026.D
Level 6	STD2 240-174339/27	SIG10027.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	451280 11768511	834964	1609950	3270666	6558989	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Ave	288568 6797769	507908	995113	1975179	4005985	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Ave	1095848 27164570	2052763	3803442	7751005	15349192	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	1363067 33576090	2573510	4666979	9594435	18622173	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	2040962 63591085	4493321	8723715	17411892	35043301	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	2671464 66359972	5011516	8666956	18025538	37184949	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Ave	1876292 54409443	3759446	6793910	14734604	29797677	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	2471130 66931018	4604193	8527290	18255017	37199314	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10022.D
Lims ID: STD005 AR2154
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 20:20:34 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-022
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:19 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:06:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.606	1.606	0.000	451280	0.0500	0.0610	
1	1.738	1.738	0.000	288568	0.0500	0.0637	
1	1.775	1.775	0.000	1095848	0.0500	0.0621	
		Average of Peak Amounts =				0.0623	
2	2.158	2.158	0.000	543690	0.0500	0.0378	
2	2.307	2.307	0.000	379002	0.0500	0.0364	
2	2.372	2.372	0.000	1321163	0.0500	0.0404	
		Average of Peak Amounts =				0.0382	
						RPD = 47.94	
8 PCB-1254							
1	3.532	3.532	0.000	1363067	0.0500	0.0625	
1	3.815	3.815	0.000	2040962	0.0500	0.0530	
1	4.226	4.226	0.000	2671464	0.0500	0.0633	
1	4.526	4.526	0.000	1876292	0.0500	0.0576	
1	5.018	5.018	0.000	2471130	0.0500	0.0604	
		Average of Peak Amounts =				0.0594	
2	4.422	4.422	0.000	1842374	0.0500	0.0644	
2	4.642	4.642	0.000	2026566	0.0500	0.0623	
2	5.129	5.129	0.000	3066948	0.0500	0.0614	
2	5.380	5.380	0.000	2057610	0.0500	0.0612	
2	5.953	5.953	0.000	2715422	0.0500	0.0616	
		Average of Peak Amounts =				0.0622	
						RPD = 4.66	

Reagents:

SG2154@0.05PP_00008 Amount Added: 1.00 Units: mL

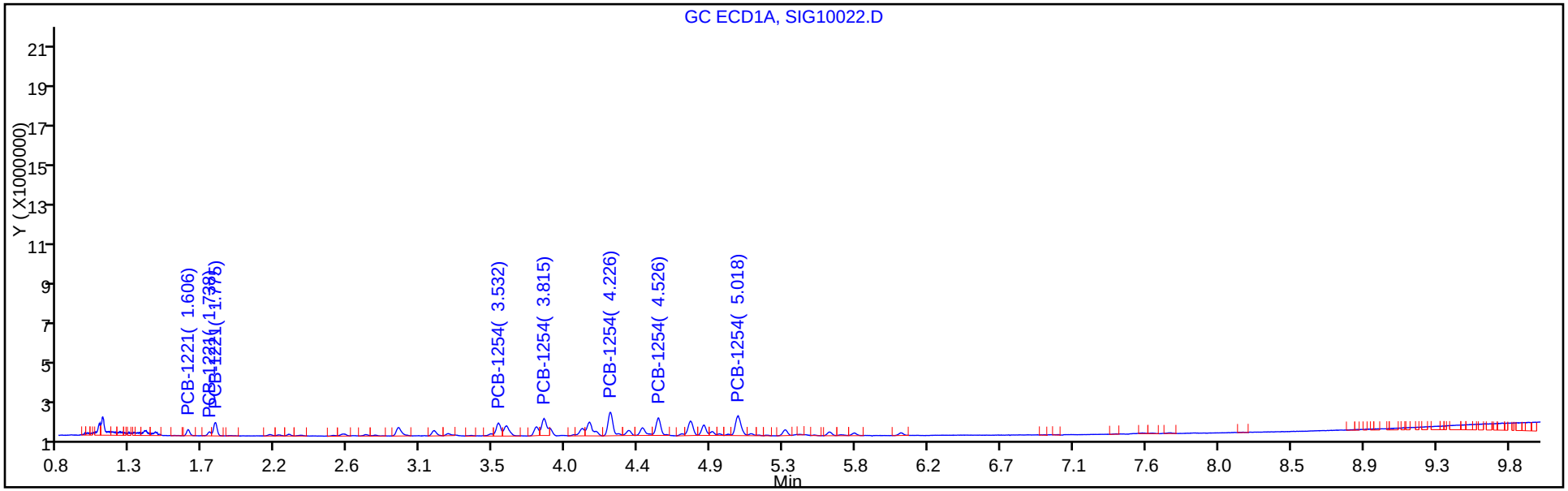
Report Date: 31-Mar-2015 06:14:20 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

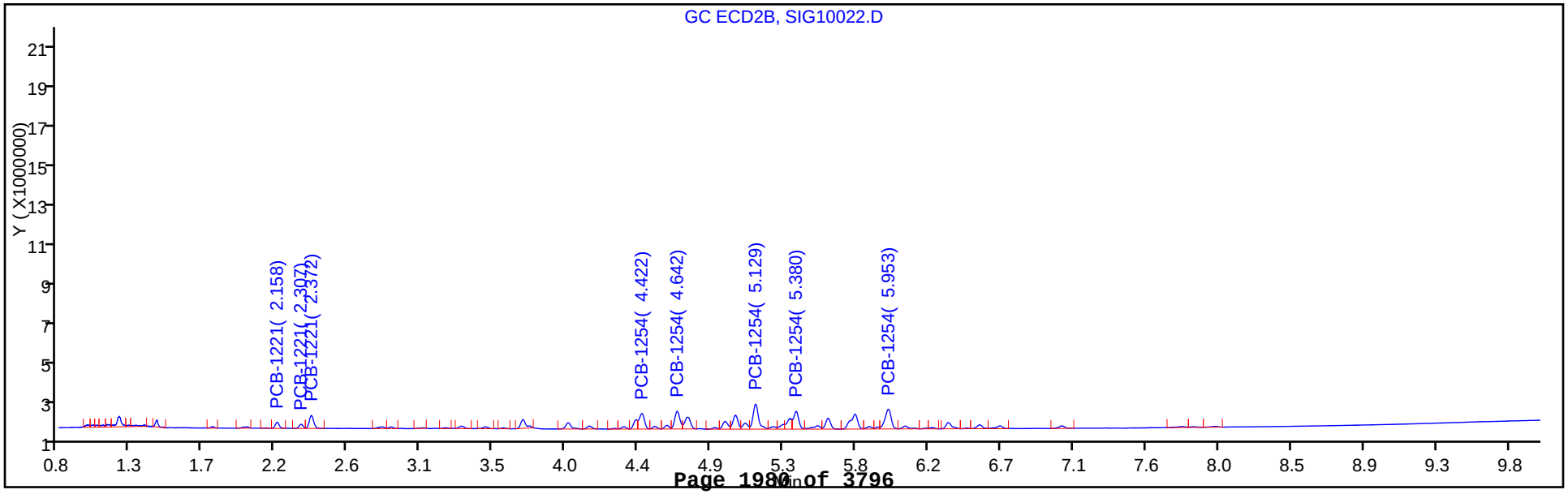
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10022.D

Injection Date:	30-Mar-2015 20:20:34	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 AR2154			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10023.D
Lims ID: STD01 AR2154
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 20:36:01 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-023
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:21 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:06:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.606	1.606	0.000	834964	0.1000	0.1128	
1	1.740	1.738	0.002	507908	0.1000	0.1121	
1	1.775	1.775	0.000	2052763	0.1000	0.1163	
		Average of Peak Amounts =				0.1137	
2	2.159	2.158	0.001	1003516	0.1000	0.1083	
2	2.308	2.307	0.001	689516	0.1000	0.1071	
2	2.372	2.372	0.000	2348686	0.1000	0.1065	
		Average of Peak Amounts =				0.1073	
						RPD = 5.83	
8 PCB-1254							
1	3.531	3.532	-0.001	2573510	0.1000	0.1179	
1	3.816	3.815	0.001	4493321	0.1000	0.1167	
1	4.226	4.226	0.000	5011516	0.1000	0.1187	
1	4.524	4.526	-0.002	3759446	0.1000	0.1153	
1	5.020	5.018	0.002	4604193	0.1000	0.1126	
		Average of Peak Amounts =				0.1163	
2	4.421	4.422	-0.001	3261629	0.1000	0.1140	
2	4.642	4.642	0.000	3761226	0.1000	0.1156	
2	5.129	5.129	0.000	5621039	0.1000	0.1126	
2	5.381	5.380	0.001	3791257	0.1000	0.1128	
2	5.952	5.953	-0.001	4855031	0.1000	0.1101	
		Average of Peak Amounts =				0.1130	
						RPD = 2.83	

Reagents:

SG2154@O.1PPM_00010 Amount Added: 1.00 Units: mL

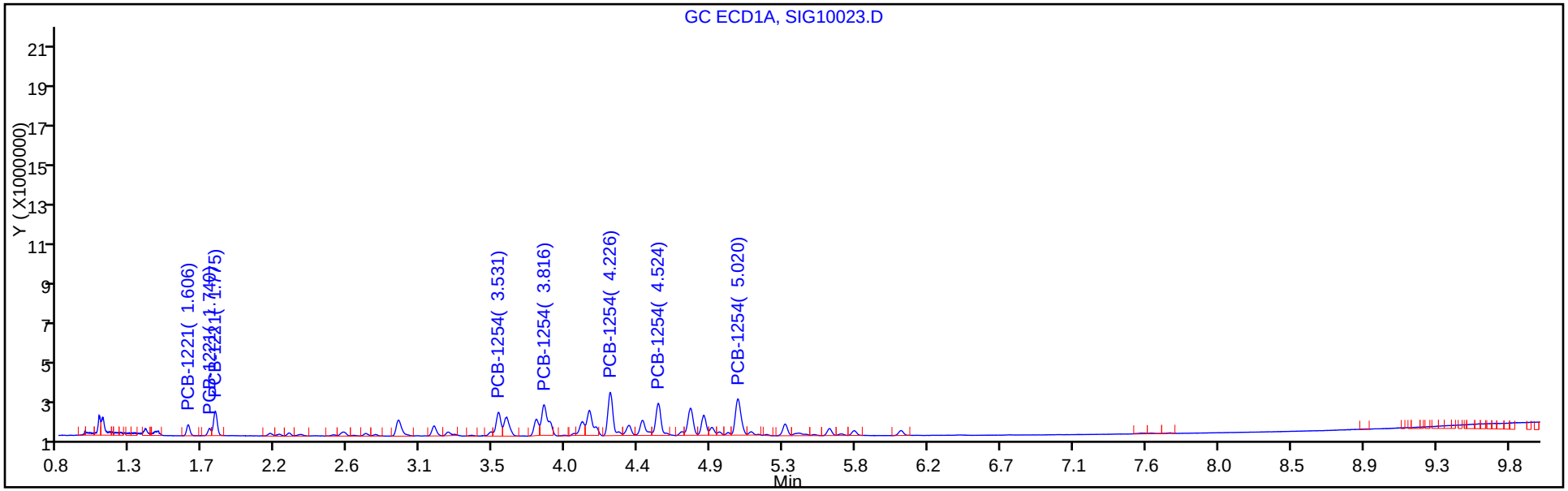
Report Date: 31-Mar-2015 06:14:22 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

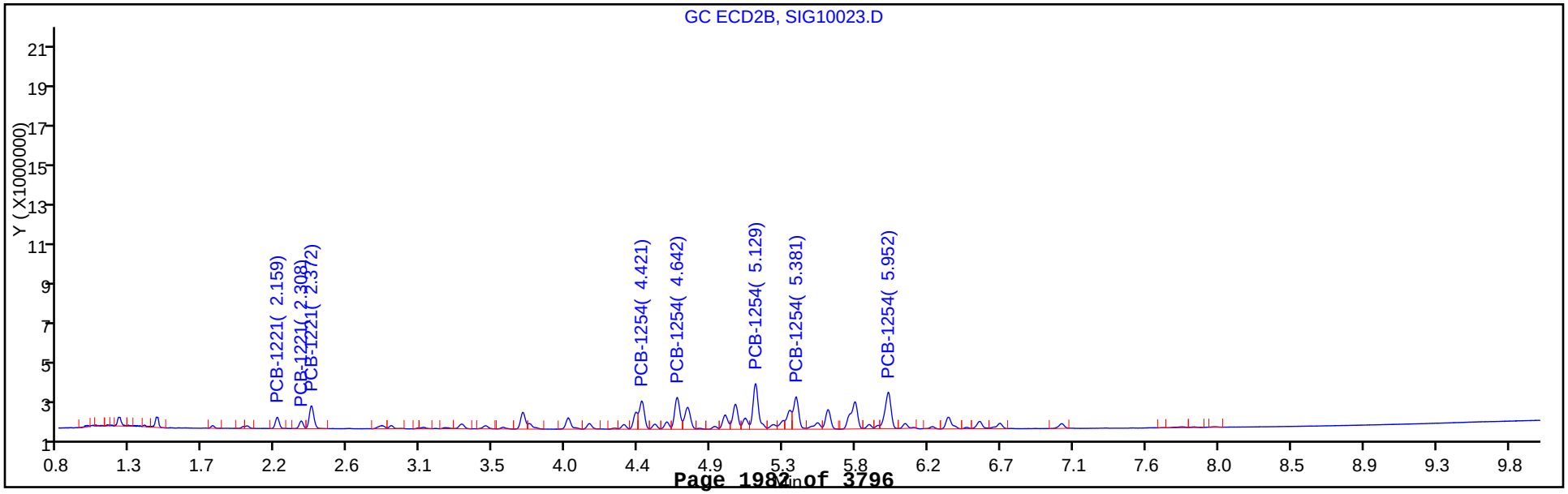
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10023.D

Injection Date:	30-Mar-2015 20:36:01	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 AR2154			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10024.D
Lims ID: STD02 AR2154
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 20:51:31 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-024
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:23 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.610	1.606	0.004	1609950	0.2000	0.2175	
1	1.744	1.738	0.006	995113	0.2000	0.2197	
1	1.779	1.775	0.004	3803442	0.2000	0.2155	
		Average of Peak Amounts =				0.2176	
2	2.164	2.158	0.006	1788536	0.2000	0.2285	
2	2.312	2.307	0.005	1245916	0.2000	0.2339	
2	2.375	2.372	0.003	4192807	0.2000	0.2252	
		Average of Peak Amounts =				0.2292	
						RPD = 5.22	
8 PCB-1254							
1	3.538	3.532	0.006	4666979	0.2000	0.2139	
1	3.821	3.815	0.006	8723715	0.2000	0.2266	
1	4.233	4.226	0.007	8666956	0.2000	0.2053	
1	4.530	4.526	0.004	6793910	0.2000	0.2084	
1	5.023	5.018	0.005	8527290	0.2000	0.2086	
		Average of Peak Amounts =				0.2126	
2	4.428	4.422	0.006	5978435	0.2000	0.2089	
2	4.647	4.642	0.005	6796765	0.2000	0.2088	
2	5.133	5.129	0.004	10349819	0.2000	0.2073	
2	5.384	5.380	0.004	7025154	0.2000	0.2091	
2	5.959	5.953	0.006	9114208	0.2000	0.2068	
		Average of Peak Amounts =				0.2082	
						RPD = 2.08	

Reagents:

SG2154@0.2PPM_00009 Amount Added: 1.00 Units: mL

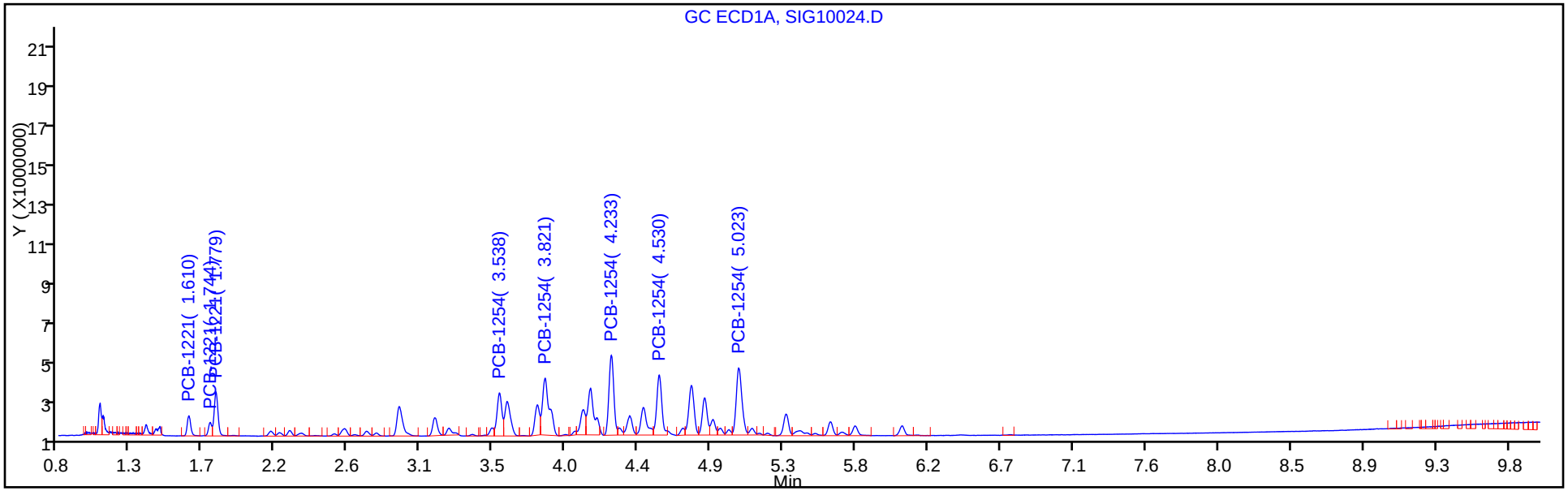
Report Date: 31-Mar-2015 06:14:25 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

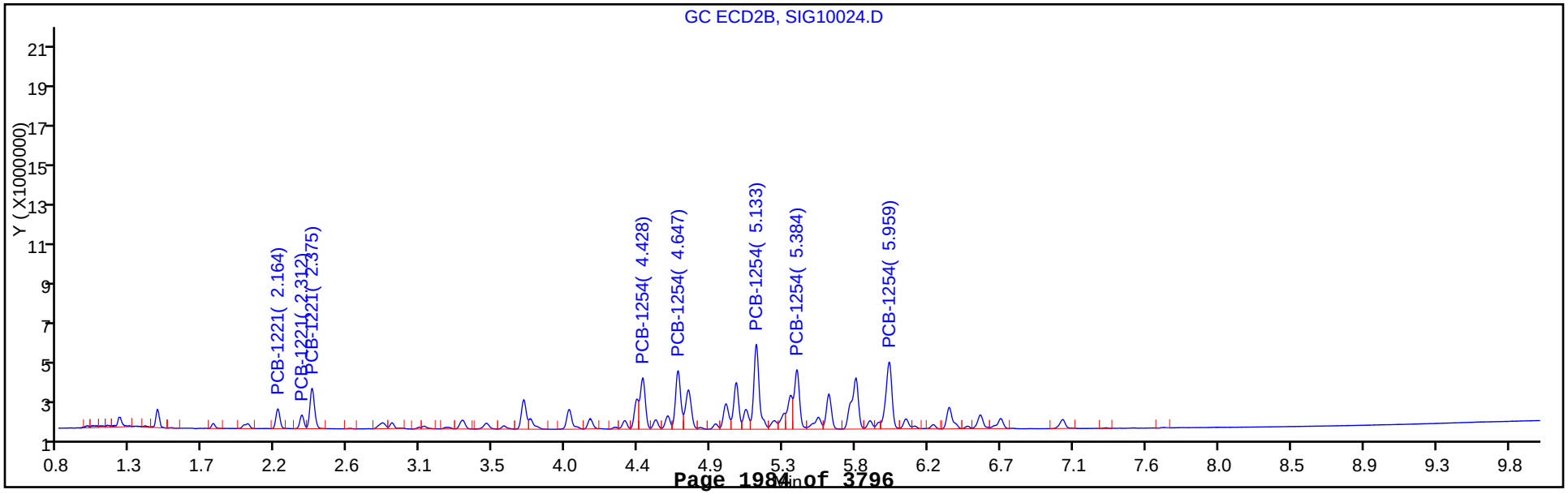
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10024.D

Injection Date:	30-Mar-2015 20:51:31	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 AR2154			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10025.D
Lims ID: STD05 AR2154
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 21:07:06 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-025
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:25 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.611	1.606	0.005	3270666	0.5000	0.4419	
1	1.742	1.738	0.004	1975179	0.5000	0.4360	
1	1.779	1.775	0.004	7751005	0.5000	0.4392	
		Average of Peak Amounts =				0.4390	
2	2.163	2.158	0.005	3594360	0.5000	0.5052	
2	2.312	2.307	0.005	2471533	0.5000	0.5132	
2	2.375	2.372	0.003	8370837	0.5000	0.4942	
		Average of Peak Amounts =				0.5042	
						RPD = 13.82	
8 PCB-1254							
1	3.540	3.532	0.008	9594435	0.5000	0.4397	
1	3.821	3.815	0.006	17411892	0.5000	0.4522	
1	4.233	4.226	0.007	18025538	0.5000	0.4270	
1	4.530	4.526	0.004	14734604	0.5000	0.4521	
1	5.026	5.018	0.008	18255017	0.5000	0.4466	
		Average of Peak Amounts =				0.4435	
2	4.428	4.422	0.006	12059972	0.5000	0.4214	
2	4.647	4.642	0.005	13736873	0.5000	0.4220	
2	5.133	5.129	0.004	21388318	0.5000	0.4284	
2	5.386	5.380	0.006	14335862	0.5000	0.4267	
2	5.958	5.953	0.005	19065045	0.5000	0.4325	
		Average of Peak Amounts =				0.4262	
						RPD = 3.97	

Reagents:

SG2154@0.5PPM_00016 Amount Added: 1.00 Units: mL

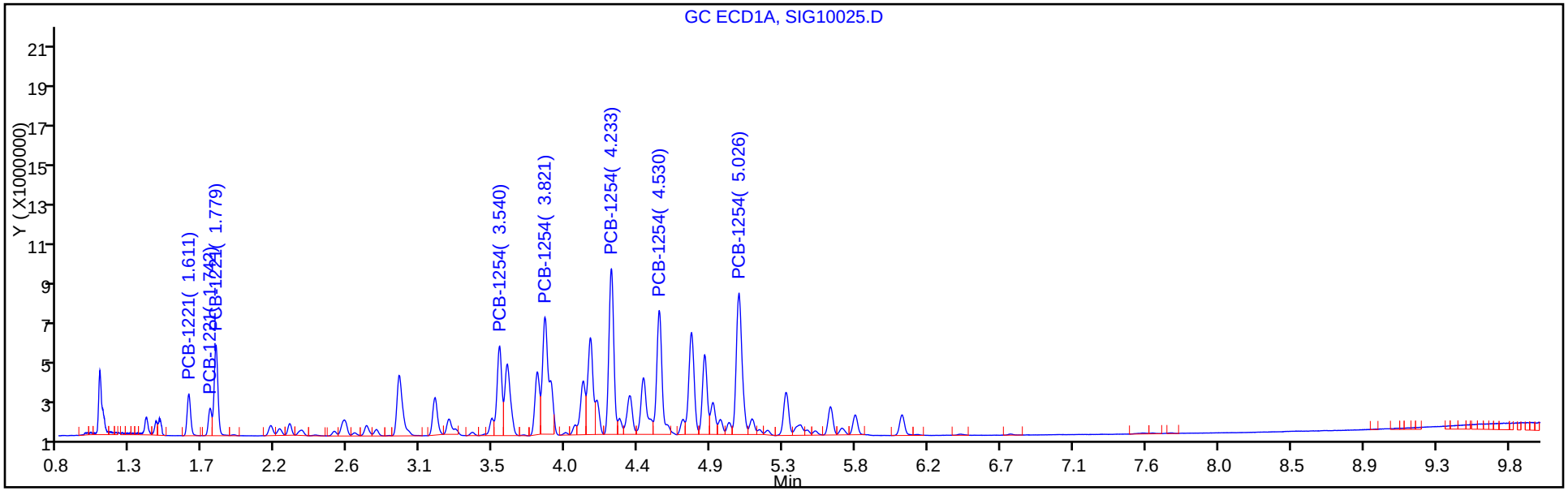
Report Date: 31-Mar-2015 06:14:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

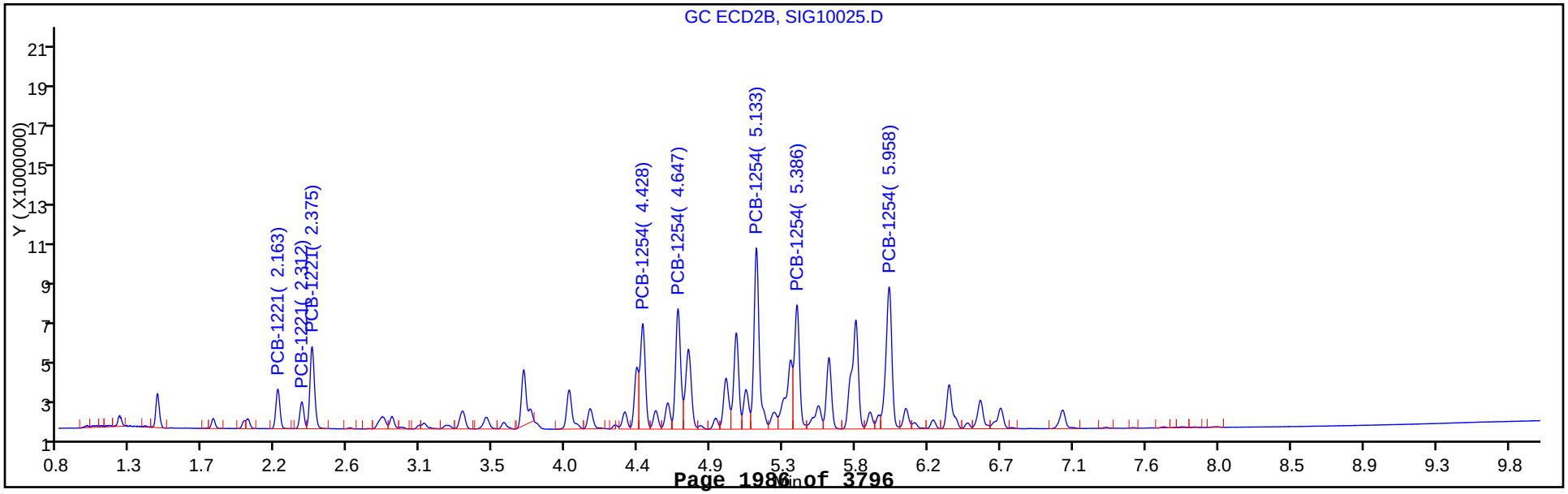
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10025.D

Injection Date:	30-Mar-2015 21:07:06	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 AR2154			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10026.D
Lims ID: STD1 AR2154
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 21:22:35 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-026
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:27 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.610	1.606	0.004	6558989	1.00	0.8862	
1	1.742	1.738	0.004	4005985	1.00	0.8843	
1	1.779	1.775	0.004	15349192	1.00	0.8697	
		Average of Peak Amounts =				0.8800	
2	2.162	2.158	0.004	7122168	1.00	1.05	
2	2.311	2.307	0.004	4834438	1.00	1.05	
2	2.375	2.372	0.003	16891418	1.00	1.04	
		Average of Peak Amounts =				1.05	
						RPD = 17.30	
8 PCB-1254							
1	3.538	3.532	0.006	18622173	1.00	0.8534	
1	3.821	3.815	0.006	35043301	1.00	0.9101	
1	4.232	4.226	0.006	37184949	1.00	0.8808	
1	4.530	4.526	0.004	29797677	1.00	0.9142	
1	5.023	5.018	0.005	37199314	1.00	0.9100	
		Average of Peak Amounts =				0.8937	
2	4.427	4.422	0.005	25009896	1.00	0.8739	
2	4.647	4.642	0.005	28818763	1.00	0.8854	
2	5.132	5.129	0.003	45126929	1.00	0.9039	
2	5.384	5.380	0.004	30117149	1.00	0.8964	
2	5.957	5.953	0.004	40296409	1.00	0.9142	
		Average of Peak Amounts =				0.8948	
						RPD = 0.12	

Reagents:

SG2154@1.0PPM_00010 Amount Added: 1.00 Units: mL

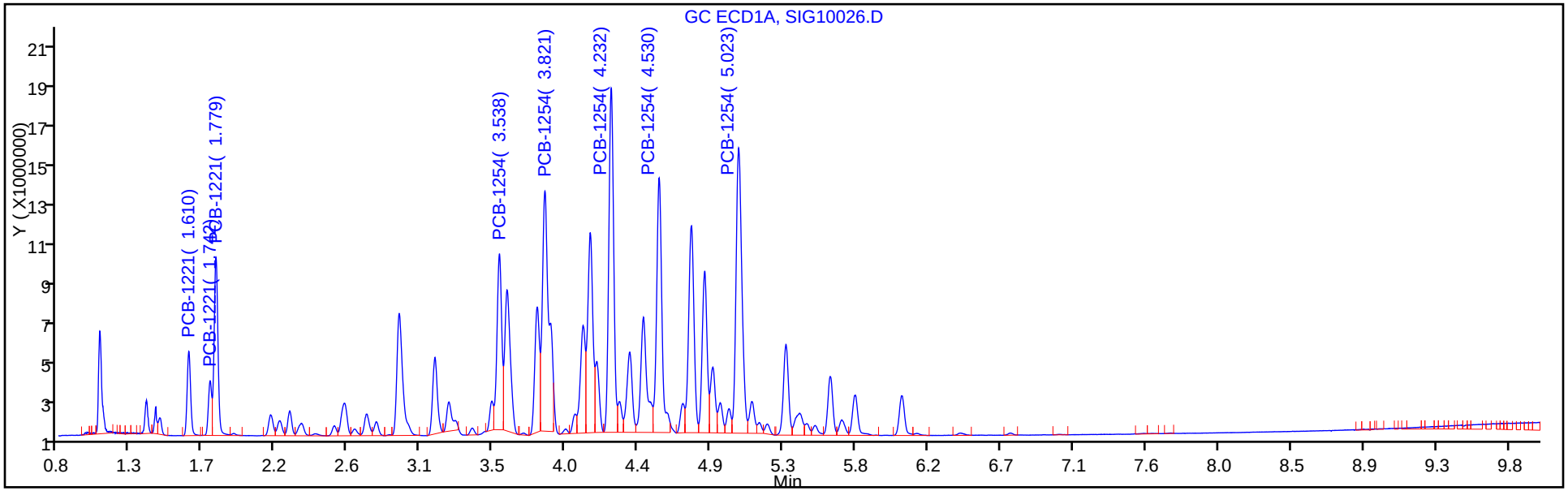
Report Date: 31-Mar-2015 06:14:28 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

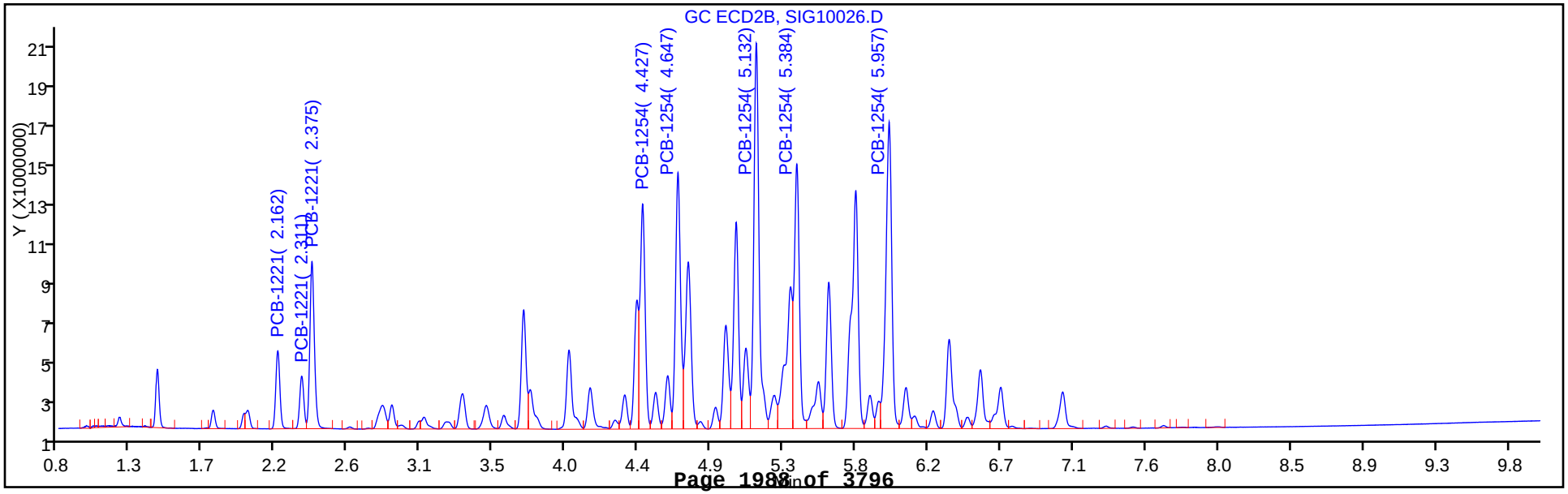
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10026.D

Injection Date:	30-Mar-2015 21:22:35	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 AR2154			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10027.D
Lims ID: STD2 AR2154
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 21:38:05 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-027
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:29 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.611	1.606	0.005	11768511	2.00	1.59	
1	1.743	1.738	0.005	6797769	2.00	1.50	
1	1.780	1.775	0.005	27164570	2.00	1.54	
		Average of Peak Amounts =				1.54	
2	2.163	2.158	0.005	12858040	2.00	1.92	
2	2.312	2.307	0.005	8590304	2.00	1.91	
2	2.376	2.372	0.004	30847509	2.00	1.94	
		Average of Peak Amounts =				1.92	
						RPD = 21.98	
8 PCB-1254							
1	3.539	3.532	0.007	33576090	2.00	1.54	
1	3.821	3.815	0.006	63591085	2.00	1.65	
1	4.231	4.226	0.005	66359972	2.00	1.57	
1	4.531	4.526	0.005	54409443	2.00	1.67	
1	5.024	5.018	0.006	66931018	2.00	1.64	
		Average of Peak Amounts =				1.61	
2	4.427	4.422	0.005	46445022	2.00	1.62	
2	4.647	4.642	0.005	53742256	2.00	1.65	
2	5.132	5.129	0.003	84699665	2.00	1.70	
2	5.386	5.380	0.006	57198581	2.00	1.70	
2	5.957	5.953	0.004	75206536	2.00	1.71	
		Average of Peak Amounts =				1.68	
						RPD = 3.78	

Reagents:

SG2154@2.0PPM_00009 Amount Added: 1.00 Units: mL

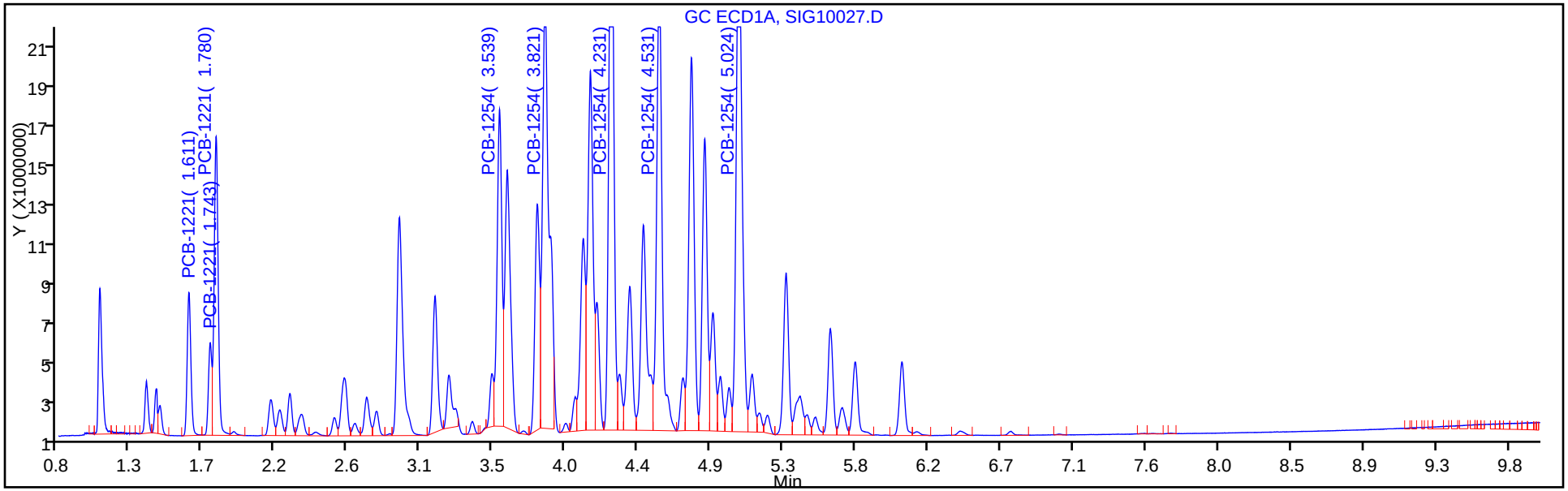
Report Date: 31-Mar-2015 06:14:30 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

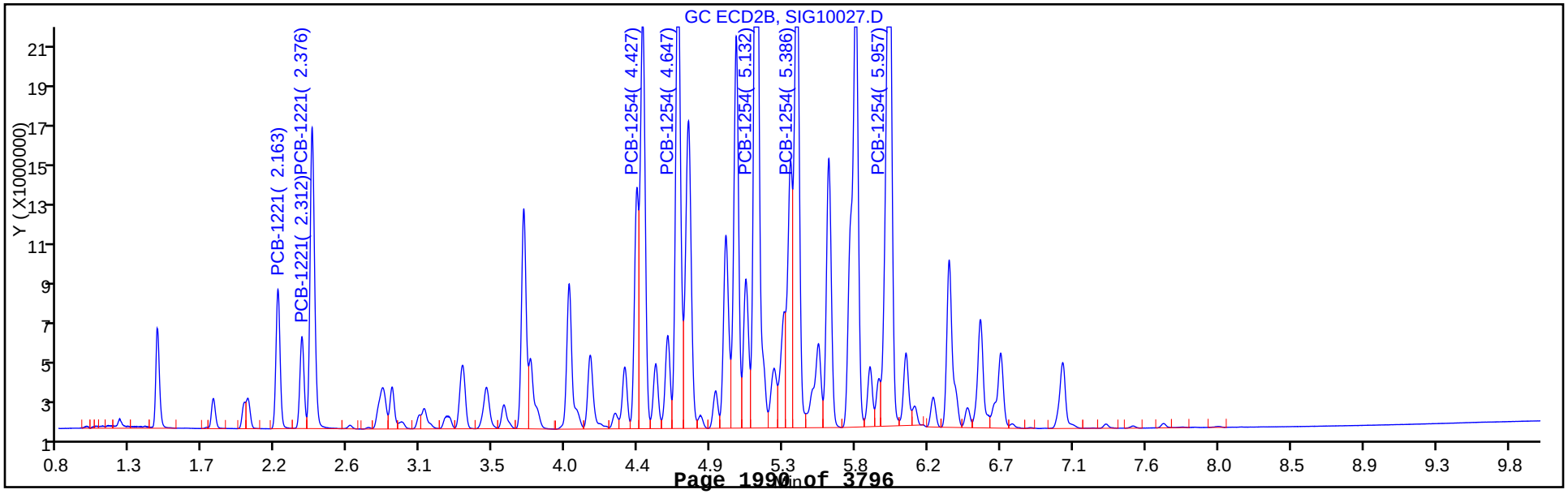
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10027.D

Injection Date:	30-Mar-2015 21:38:05	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 AR2154			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 20:20 Calibration End Date: 03/30/2015 21:38 Calibration ID: 27546

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/22	SIG10022.D
Level 2	STD01 240-174339/23	SIG10023.D
Level 3	STD02 240-174339/24	SIG10024.D
Level 4	STD05 240-174339/25	SIG10025.D
Level 5	STD1 240-174339/26	SIG10026.D
Level 6	STD2 240-174339/27	SIG10027.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	2.158	2.159	2.164	2.163	2.162	2.163					2.108 - 2.208	2.162
PCB-1221 Peak 2	2.307	2.308	2.312	2.312	2.311	2.312					2.257 - 2.357	2.310
PCB-1221 Peak 3	2.372	2.372	2.375	2.375	2.375	2.376					2.322 - 2.422	2.374
PCB-1254 Peak 1	4.422	4.421	4.428	4.428	4.427	4.427					4.372 - 4.472	4.426
PCB-1254 Peak 2	4.642	4.642	4.647	4.647	4.647	4.647					4.592 - 4.692	4.645
PCB-1254 Peak 3	5.129	5.129	5.133	5.133	5.132	5.132					5.079 - 5.179	5.131
PCB-1254 Peak 4	5.380	5.381	5.384	5.386	5.384	5.386					5.330 - 5.430	5.384
PCB-1254 Peak 5	5.953	5.952	5.959	5.958	5.957	5.957					5.903 - 6.003	5.956

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 20:20 Calibration End Date: 03/30/2015 21:38 Calibration ID: 27546

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/22	SIG10022.D
Level 2	STD01 240-174339/23	SIG10023.D
Level 3	STD02 240-174339/24	SIG10024.D
Level 4	STD05 240-174339/25	SIG10025.D
Level 5	STD1 240-174339/26	SIG10026.D
Level 6	STD2 240-174339/27	SIG10027.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	10873800 7122168	10035160 6429020	8942680	7188720	Lin1	296864.333	6527045.19							0.9960		0.9900
PCB-1221 Peak 2	7580040 4834438	6895160 4295152	6229580	4943066	Lin1	219459.787	4388039.03							0.9940		0.9900
PCB-1221 Peak 3	26423260 16891418	23486860 15423755	20964035	16741674	Lin1	694139.771	15534436.7							0.9970		0.9900
PCB-1254 Peak 1	36847480 25009896	32616290 23222511	29892175	24119944	Ave		28618049.3				19.0		20.0			
PCB-1254 Peak 2	40531320 28818763	37612260 26871128	33983825	27473746	Ave		32548507.0				17.6		20.0			
PCB-1254 Peak 3	61338960 45126929	56210390 42349833	51749095	42776636	Ave		49925307.1				15.6		20.0			
PCB-1254 Peak 4	41152200 30117149	37912570 28599291	35125770	28671724	Ave		33596450.6				15.7		20.0			
PCB-1254 Peak 5	54308440 40296409	48550310 37603268	45571040	38130090	Ave		44076592.8				15.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 20:20 Calibration End Date: 03/30/2015 21:38 Calibration ID: 27546

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/22	SIG10022.D
Level 2	STD01 240-174339/23	SIG10023.D
Level 3	STD02 240-174339/24	SIG10024.D
Level 4	STD05 240-174339/25	SIG10025.D
Level 5	STD1 240-174339/26	SIG10026.D
Level 6	STD2 240-174339/27	SIG10027.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Lin1	543690 12858040	1003516	1788536	3594360	7122168	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Lin1	379002 8590304	689516	1245916	2471533	4834438	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Lin1	1321163 30847509	2348686	4192807	8370837	16891418	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	1842374 46445022	3261629	5978435	12059972	25009896	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	2026566 53742256	3761226	6796765	13736873	28818763	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	3066948 84699665	5621039	10349819	21388318	45126929	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Ave	2057610 57198581	3791257	7025154	14335862	30117149	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	2715422 75206536	4855031	9114208	19065045	40296409	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10022.D
Lims ID: STD005 AR2154
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 20:20:34 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-022
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:19 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:06:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.606	1.606	0.000	451280	0.0500	0.0610	
1	1.738	1.738	0.000	288568	0.0500	0.0637	
1	1.775	1.775	0.000	1095848	0.0500	0.0621	
		Average of Peak Amounts =				0.0623	
2	2.158	2.158	0.000	543690	0.0500	0.0378	
2	2.307	2.307	0.000	379002	0.0500	0.0364	
2	2.372	2.372	0.000	1321163	0.0500	0.0404	
		Average of Peak Amounts =				0.0382	
						RPD = 47.94	
8 PCB-1254							
1	3.532	3.532	0.000	1363067	0.0500	0.0625	
1	3.815	3.815	0.000	2040962	0.0500	0.0530	
1	4.226	4.226	0.000	2671464	0.0500	0.0633	
1	4.526	4.526	0.000	1876292	0.0500	0.0576	
1	5.018	5.018	0.000	2471130	0.0500	0.0604	
		Average of Peak Amounts =				0.0594	
2	4.422	4.422	0.000	1842374	0.0500	0.0644	
2	4.642	4.642	0.000	2026566	0.0500	0.0623	
2	5.129	5.129	0.000	3066948	0.0500	0.0614	
2	5.380	5.380	0.000	2057610	0.0500	0.0612	
2	5.953	5.953	0.000	2715422	0.0500	0.0616	
		Average of Peak Amounts =				0.0622	
						RPD = 4.66	

Reagents:

SG2154@0.05PP_00008 Amount Added: 1.00 Units: mL

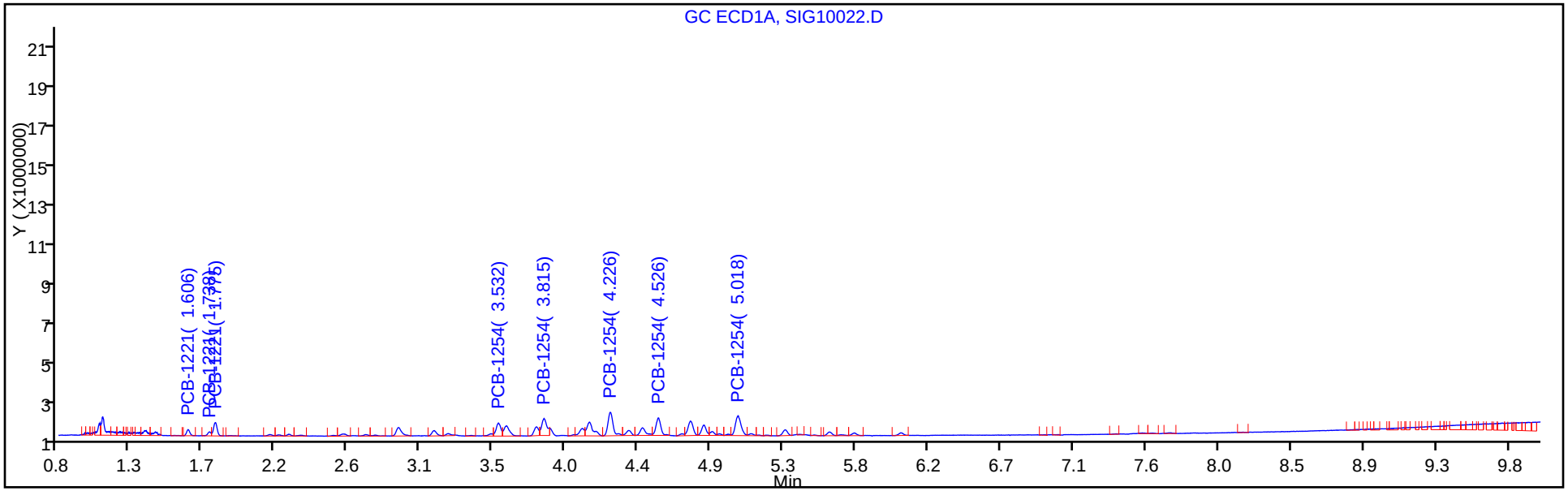
Report Date: 31-Mar-2015 06:14:21 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

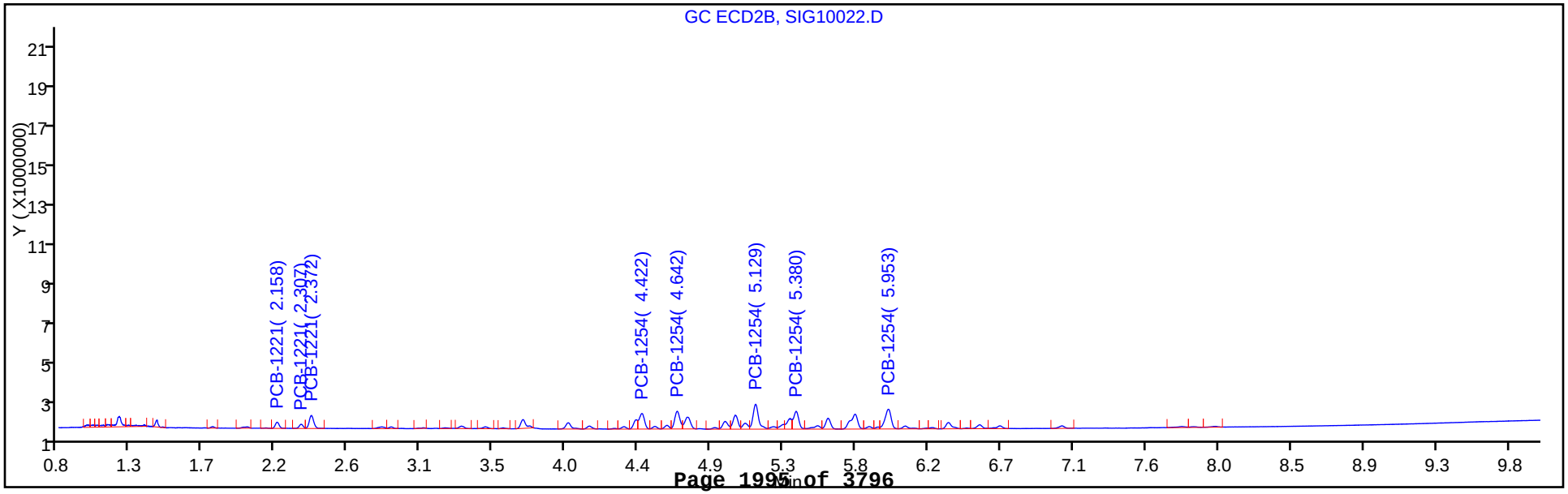
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10022.D

Injection Date:	30-Mar-2015 20:20:34	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 AR2154			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10023.D
Lims ID: STD01 AR2154
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 20:36:01 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-023
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:21 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:06:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.606	1.606	0.000	834964	0.1000	0.1128	
1	1.740	1.738	0.002	507908	0.1000	0.1121	
1	1.775	1.775	0.000	2052763	0.1000	0.1163	
		Average of Peak Amounts =				0.1137	
2	2.159	2.158	0.001	1003516	0.1000	0.1083	
2	2.308	2.307	0.001	689516	0.1000	0.1071	
2	2.372	2.372	0.000	2348686	0.1000	0.1065	
		Average of Peak Amounts =				0.1073	
						RPD = 5.83	
8 PCB-1254							
1	3.531	3.532	-0.001	2573510	0.1000	0.1179	
1	3.816	3.815	0.001	4493321	0.1000	0.1167	
1	4.226	4.226	0.000	5011516	0.1000	0.1187	
1	4.524	4.526	-0.002	3759446	0.1000	0.1153	
1	5.020	5.018	0.002	4604193	0.1000	0.1126	
		Average of Peak Amounts =				0.1163	
2	4.421	4.422	-0.001	3261629	0.1000	0.1140	
2	4.642	4.642	0.000	3761226	0.1000	0.1156	
2	5.129	5.129	0.000	5621039	0.1000	0.1126	
2	5.381	5.380	0.001	3791257	0.1000	0.1128	
2	5.952	5.953	-0.001	4855031	0.1000	0.1101	
		Average of Peak Amounts =				0.1130	
						RPD = 2.83	

Reagents:

SG2154@O.1PPM_00010 Amount Added: 1.00 Units: mL

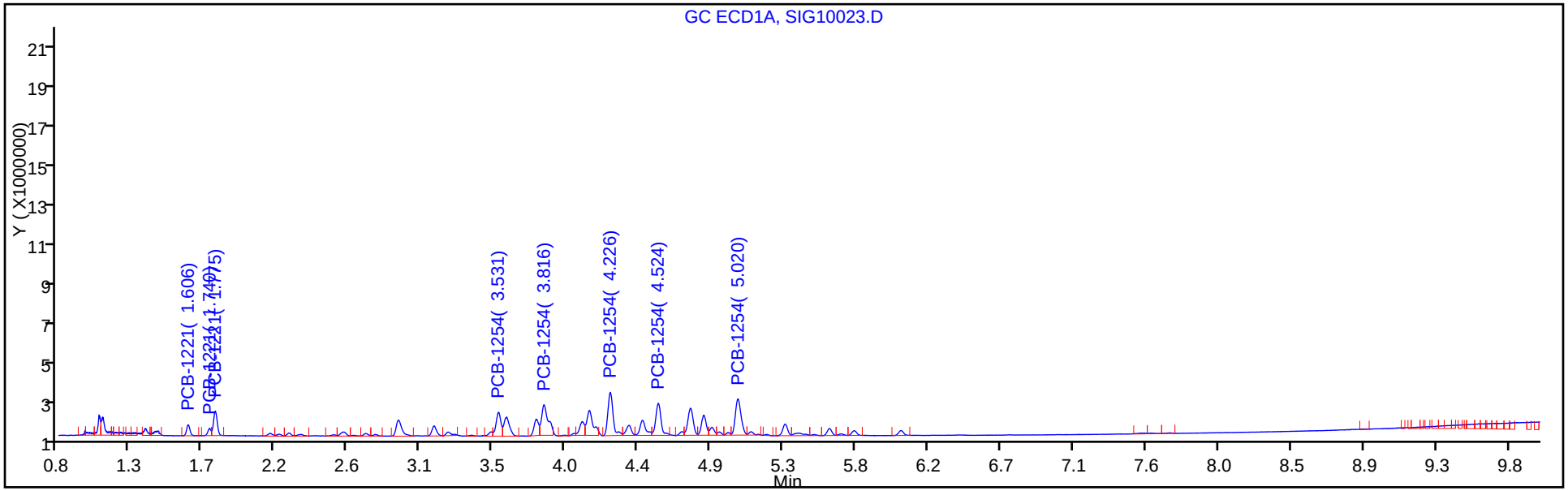
Report Date: 31-Mar-2015 06:14:23 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

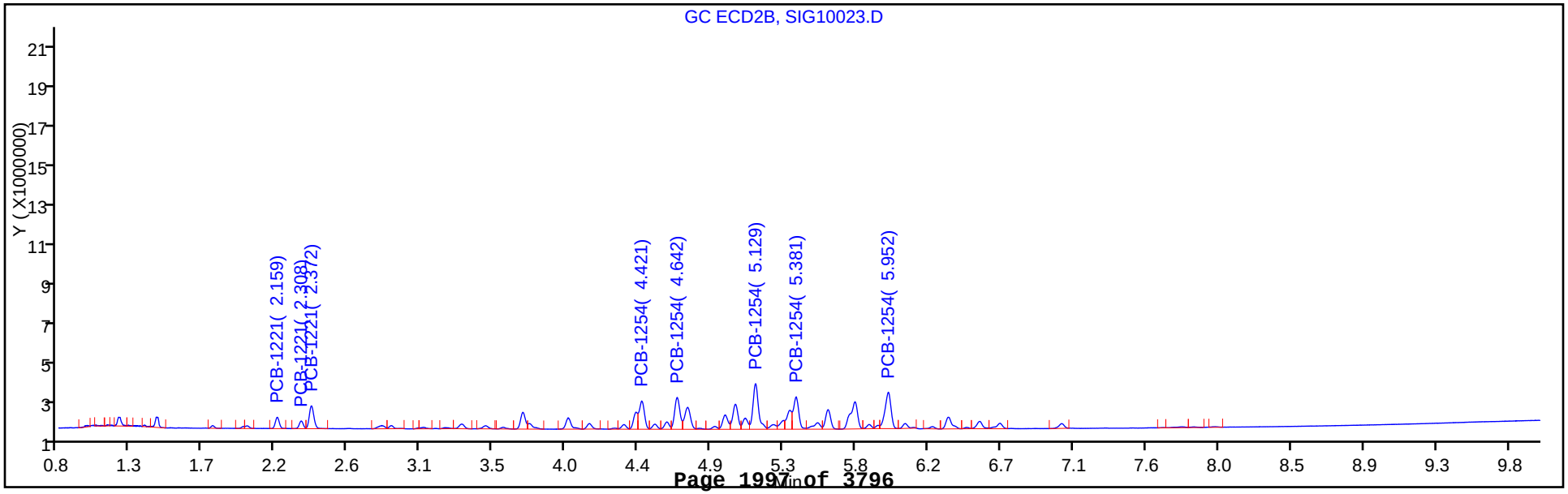
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10023.D

Injection Date:	30-Mar-2015 20:36:01	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 AR2154			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10024.D
Lims ID: STD02 AR2154
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 20:51:31 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-024
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:23 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.610	1.606	0.004	1609950	0.2000	0.2175	
1	1.744	1.738	0.006	995113	0.2000	0.2197	
1	1.779	1.775	0.004	3803442	0.2000	0.2155	
		Average of Peak Amounts =				0.2176	
2	2.164	2.158	0.006	1788536	0.2000	0.2285	
2	2.312	2.307	0.005	1245916	0.2000	0.2339	
2	2.375	2.372	0.003	4192807	0.2000	0.2252	
		Average of Peak Amounts =				0.2292	
						RPD = 5.22	
8 PCB-1254							
1	3.538	3.532	0.006	4666979	0.2000	0.2139	
1	3.821	3.815	0.006	8723715	0.2000	0.2266	
1	4.233	4.226	0.007	8666956	0.2000	0.2053	
1	4.530	4.526	0.004	6793910	0.2000	0.2084	
1	5.023	5.018	0.005	8527290	0.2000	0.2086	
		Average of Peak Amounts =				0.2126	
2	4.428	4.422	0.006	5978435	0.2000	0.2089	
2	4.647	4.642	0.005	6796765	0.2000	0.2088	
2	5.133	5.129	0.004	10349819	0.2000	0.2073	
2	5.384	5.380	0.004	7025154	0.2000	0.2091	
2	5.959	5.953	0.006	9114208	0.2000	0.2068	
		Average of Peak Amounts =				0.2082	
						RPD = 2.08	

Reagents:

SG2154@0.2PPM_00009 Amount Added: 1.00 Units: mL

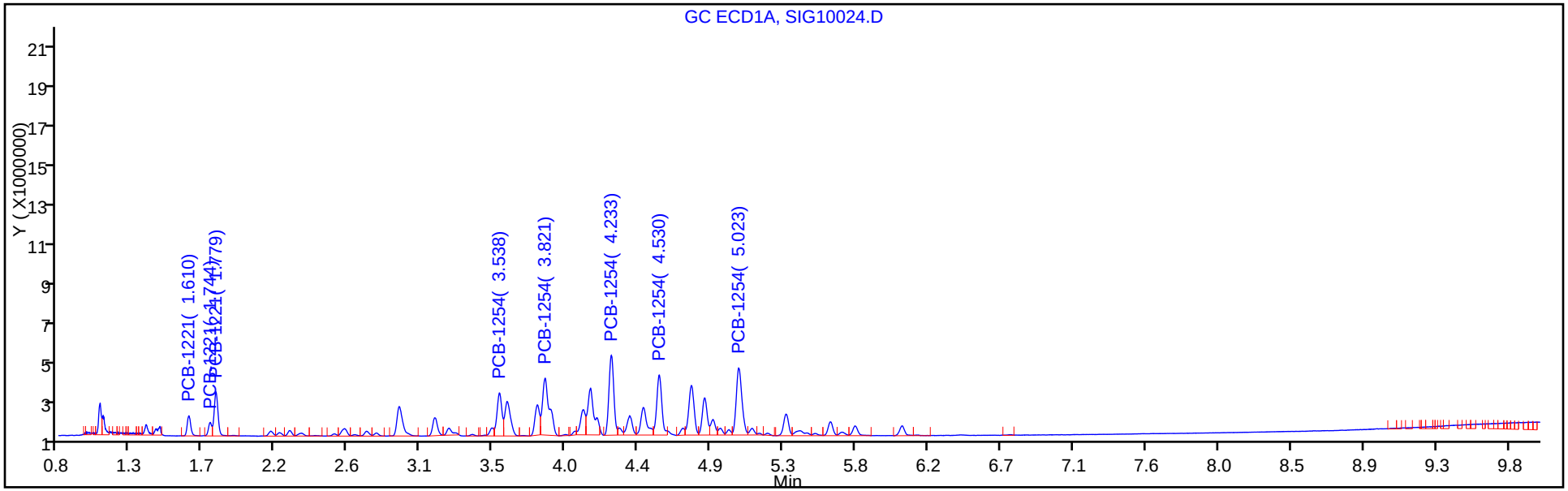
Report Date: 31-Mar-2015 06:14:25 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

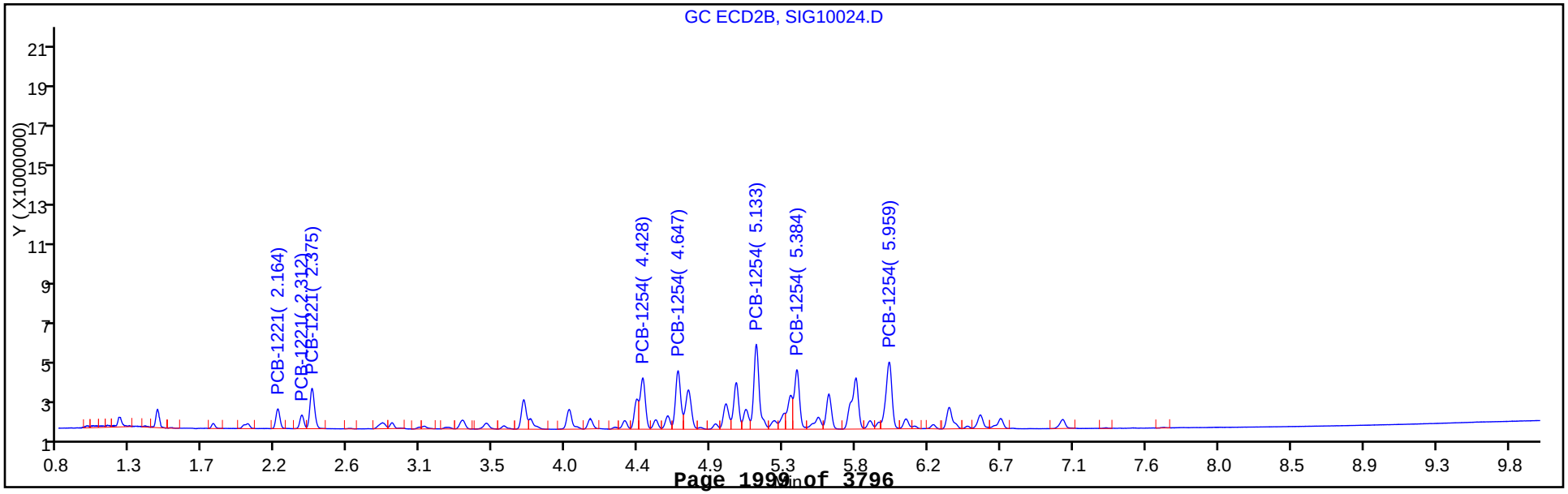
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10024.D

Injection Date:	30-Mar-2015 20:51:31	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 AR2154			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10025.D
Lims ID: STD05 AR2154
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Mar-2015 21:07:06 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-025
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:25 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.611	1.606	0.005	3270666	0.5000	0.4419	
1	1.742	1.738	0.004	1975179	0.5000	0.4360	
1	1.779	1.775	0.004	7751005	0.5000	0.4392	
		Average of Peak Amounts =				0.4390	
2	2.163	2.158	0.005	3594360	0.5000	0.5052	
2	2.312	2.307	0.005	2471533	0.5000	0.5132	
2	2.375	2.372	0.003	8370837	0.5000	0.4942	
		Average of Peak Amounts =				0.5042	
						RPD = 13.82	
8 PCB-1254							
1	3.540	3.532	0.008	9594435	0.5000	0.4397	
1	3.821	3.815	0.006	17411892	0.5000	0.4522	
1	4.233	4.226	0.007	18025538	0.5000	0.4270	
1	4.530	4.526	0.004	14734604	0.5000	0.4521	
1	5.026	5.018	0.008	18255017	0.5000	0.4466	
		Average of Peak Amounts =				0.4435	
2	4.428	4.422	0.006	12059972	0.5000	0.4214	
2	4.647	4.642	0.005	13736873	0.5000	0.4220	
2	5.133	5.129	0.004	21388318	0.5000	0.4284	
2	5.386	5.380	0.006	14335862	0.5000	0.4267	
2	5.958	5.953	0.005	19065045	0.5000	0.4325	
		Average of Peak Amounts =				0.4262	
						RPD = 3.97	

Reagents:

SG2154@0.5PPM_00016 Amount Added: 1.00 Units: mL

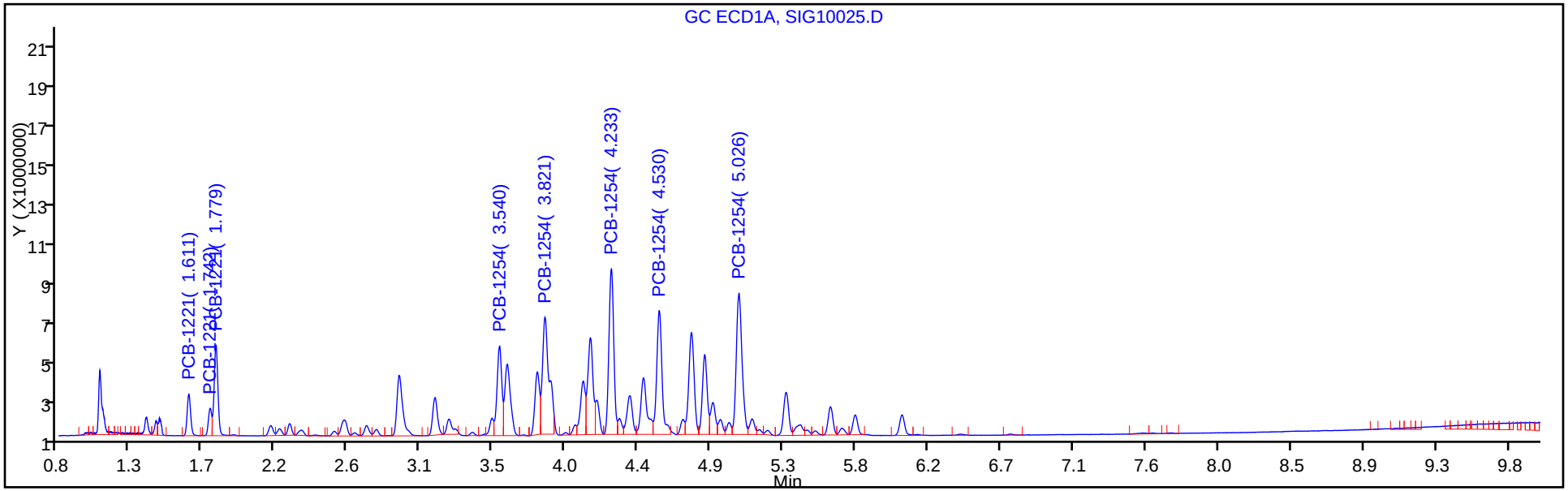
Report Date: 31-Mar-2015 06:14:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

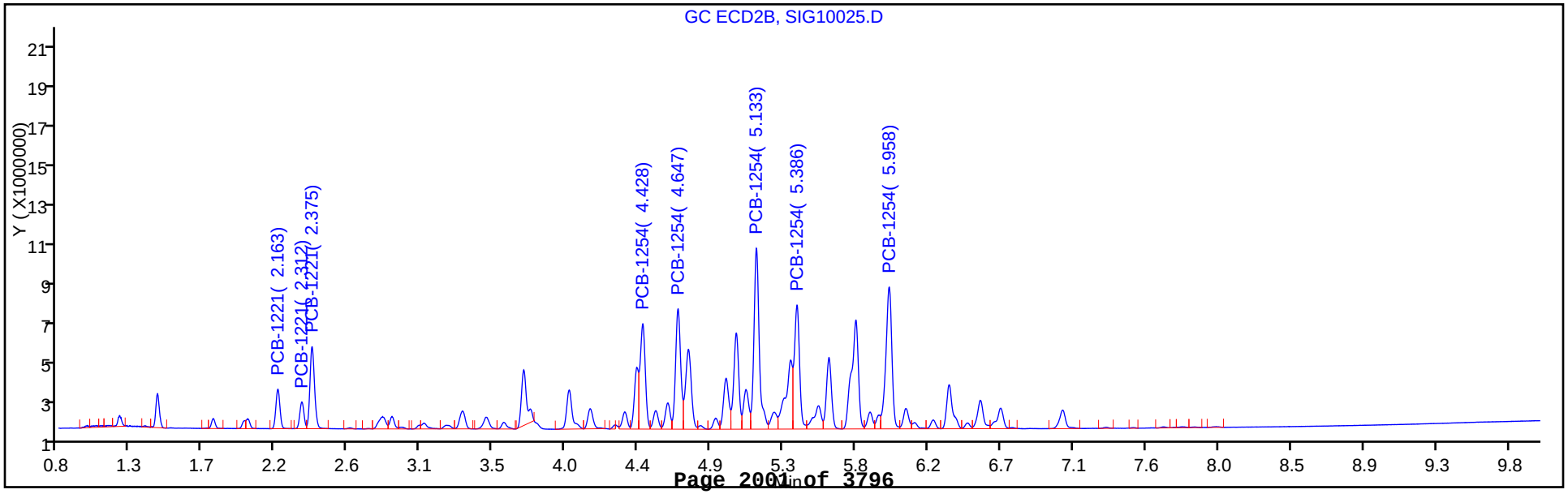
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10025.D

Injection Date:	30-Mar-2015 21:07:06	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 AR2154			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10026.D
Lims ID: STD1 AR2154
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 21:22:35 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-026
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:27 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.610	1.606	0.004	6558989	1.00	0.8862	
1	1.742	1.738	0.004	4005985	1.00	0.8843	
1	1.779	1.775	0.004	15349192	1.00	0.8697	
		Average of Peak Amounts =				0.8800	
2	2.162	2.158	0.004	7122168	1.00	1.05	
2	2.311	2.307	0.004	4834438	1.00	1.05	
2	2.375	2.372	0.003	16891418	1.00	1.04	
		Average of Peak Amounts =				1.05	
						RPD = 17.30	
8 PCB-1254							
1	3.538	3.532	0.006	18622173	1.00	0.8534	
1	3.821	3.815	0.006	35043301	1.00	0.9101	
1	4.232	4.226	0.006	37184949	1.00	0.8808	
1	4.530	4.526	0.004	29797677	1.00	0.9142	
1	5.023	5.018	0.005	37199314	1.00	0.9100	
		Average of Peak Amounts =				0.8937	
2	4.427	4.422	0.005	25009896	1.00	0.8739	
2	4.647	4.642	0.005	28818763	1.00	0.8854	
2	5.132	5.129	0.003	45126929	1.00	0.9039	
2	5.384	5.380	0.004	30117149	1.00	0.8964	
2	5.957	5.953	0.004	40296409	1.00	0.9142	
		Average of Peak Amounts =				0.8948	
						RPD = 0.12	

Reagents:

SG2154@1.0PPM_00010 Amount Added: 1.00 Units: mL

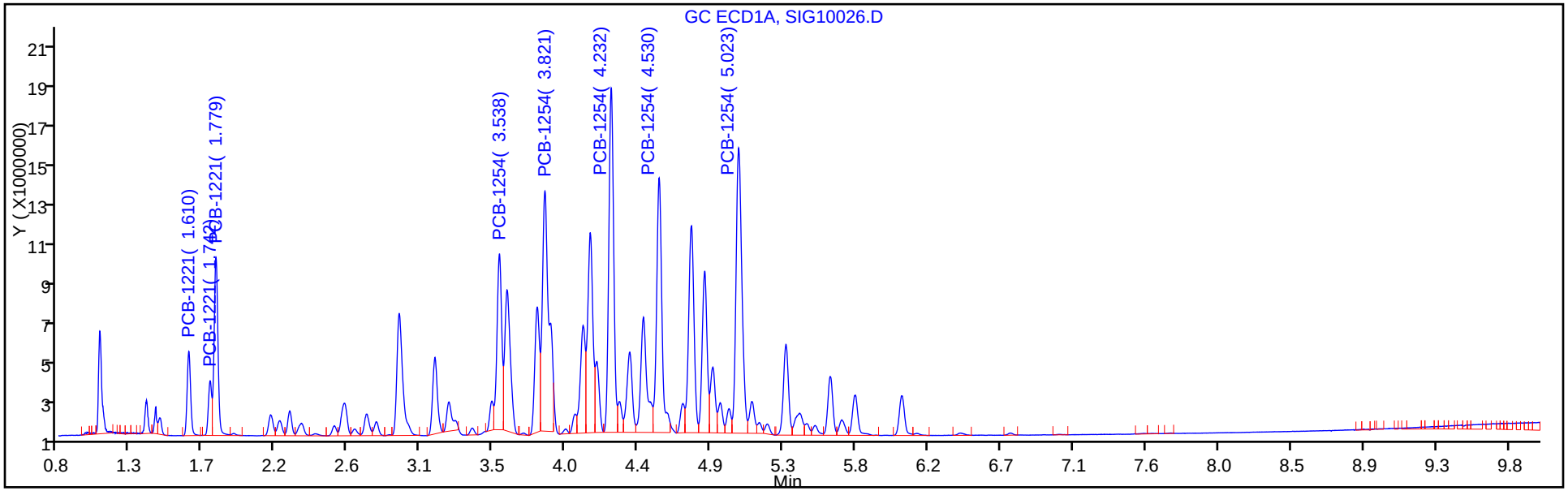
Report Date: 31-Mar-2015 06:14:29 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

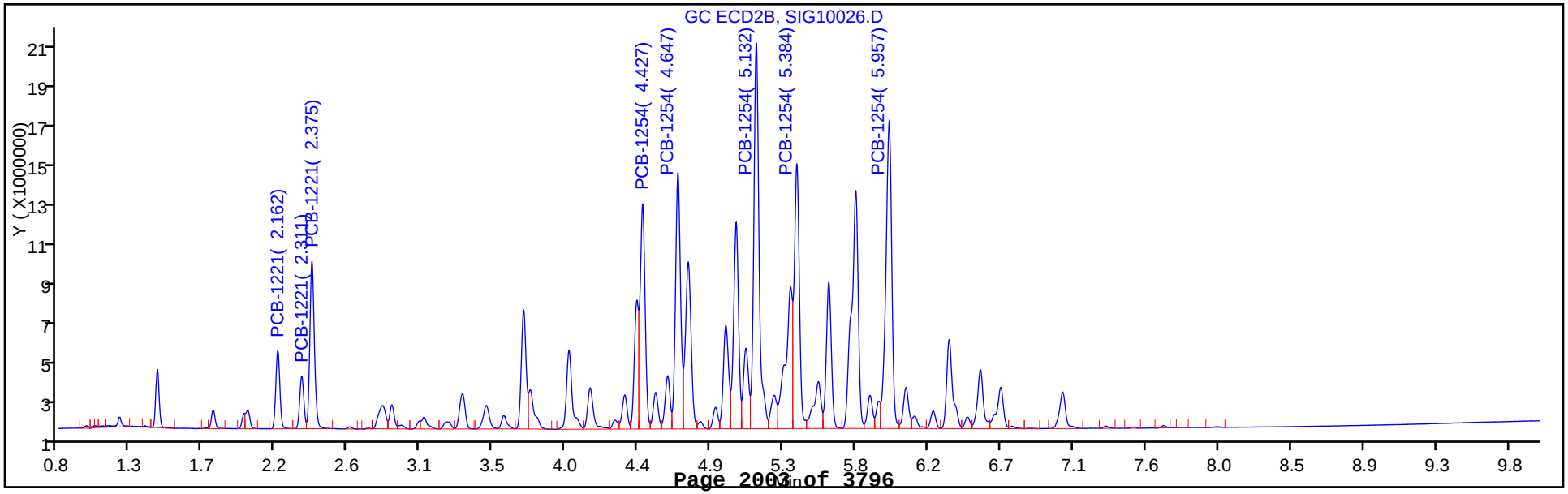
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10026.D

Injection Date:	30-Mar-2015 21:22:35	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 AR2154			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10027.D
Lims ID: STD2 AR2154
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 21:38:05 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-027
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub4

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:29 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
3 PCB-1221							
1	1.611	1.606	0.005	11768511	2.00	1.59	
1	1.743	1.738	0.005	6797769	2.00	1.50	
1	1.780	1.775	0.005	27164570	2.00	1.54	
		Average of Peak Amounts =				1.54	
2	2.163	2.158	0.005	12858040	2.00	1.92	
2	2.312	2.307	0.005	8590304	2.00	1.91	
2	2.376	2.372	0.004	30847509	2.00	1.94	
		Average of Peak Amounts =				1.92	
						RPD = 21.98	
8 PCB-1254							
1	3.539	3.532	0.007	33576090	2.00	1.54	
1	3.821	3.815	0.006	63591085	2.00	1.65	
1	4.231	4.226	0.005	66359972	2.00	1.57	
1	4.531	4.526	0.005	54409443	2.00	1.67	
1	5.024	5.018	0.006	66931018	2.00	1.64	
		Average of Peak Amounts =				1.61	
2	4.427	4.422	0.005	46445022	2.00	1.62	
2	4.647	4.642	0.005	53742256	2.00	1.65	
2	5.132	5.129	0.003	84699665	2.00	1.70	
2	5.386	5.380	0.006	57198581	2.00	1.70	
2	5.957	5.953	0.004	75206536	2.00	1.71	
		Average of Peak Amounts =				1.68	
						RPD = 3.78	

Reagents:

SG2154@2.0PPM_00009 Amount Added: 1.00 Units: mL

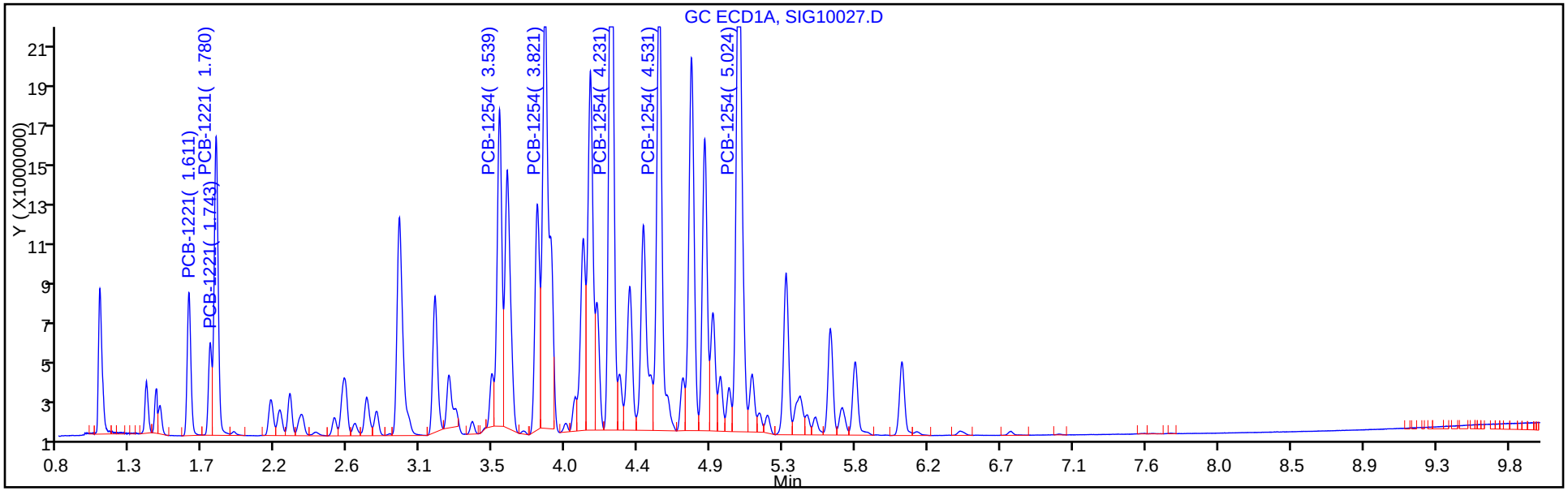
Report Date: 31-Mar-2015 06:14:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

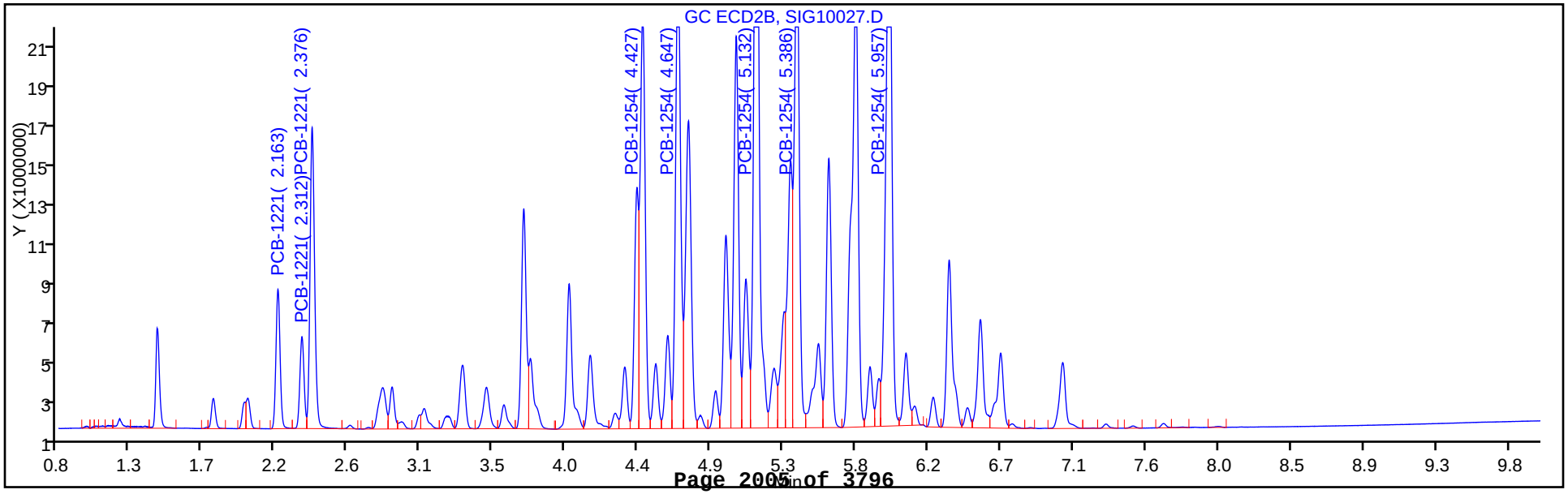
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10027.D

Injection Date:	30-Mar-2015 21:38:05	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 AR2154			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 21:53 Calibration End Date: 03/30/2015 23:10 Calibration ID: 27551

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/28	SIG10028.D
Level 2	STD01 240-174339/29	SIG10029.D
Level 3	STD02 240-174339/30	SIG10030.D
Level 4	STD05 240-174339/31	SIG10031.D
Level 5	STD1 240-174339/32	SIG10032.D
Level 6	STD2 240-174339/33	SIG10033.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	1.779	1.785	1.785	1.790	1.790	1.791					1.740 - 1.840	1.787
PCB-1016 Peak 2	2.118	2.125	2.125	2.131	2.130	2.130					2.081 - 2.181	2.127
PCB-1016 Peak 3	2.577	2.582	2.584	2.589	2.589	2.589					2.539 - 2.639	2.585
PCB-1016 Peak 4	2.713	2.722	2.720	2.726	2.726	2.727					2.676 - 2.776	2.722
PCB-1016 Peak 5	3.140	3.147	3.147	3.153	3.151	3.152					3.103 - 3.203	3.148
PCB-1260 Peak 1	4.430	4.439	4.438	4.445	4.445	4.445					4.395 - 4.495	4.440
PCB-1260 Peak 2	4.731	4.740	4.740	4.746	4.745	4.747					4.696 - 4.796	4.742
PCB-1260 Peak 3	5.023	5.029	5.032	5.036	5.037	5.037					4.986 - 5.086	5.032
PCB-1260 Peak 4	5.748	5.753	5.753	5.760	5.760	5.761					5.710 - 5.810	5.756
PCB-1260 Peak 5	6.035	6.047	6.045	6.051	6.050	6.052					6.001 - 6.101	6.047
Tetrachloro-m-xylene	1.445	1.450	1.445	1.455	1.455	1.456					1.405 - 1.505	1.451
DCB Decachlorobiphenyl	7.210	7.219	7.219	7.225	7.226	7.227					7.175 - 7.275	7.221

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 21:53 Calibration End Date: 03/30/2015 23:10 Calibration ID: 27551

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/28	SIG10028.D
Level 2	STD01 240-174339/29	SIG10029.D
Level 3	STD02 240-174339/30	SIG10030.D
Level 4	STD05 240-174339/31	SIG10031.D
Level 5	STD1 240-174339/32	SIG10032.D
Level 6	STD2 240-174339/33	SIG10033.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	15377120 11508707	14673030 10180749	13151395	12488982	Ave		12896663.8				15.1		20.0			
PCB-1016 Peak 2	28982160 20644934	25151090 18350029	23951020	22930862	Ave		23335015.8				15.8		20.0			
PCB-1016 Peak 3	55769780 44992977	53151130 41438186	50166170	48348580	Ave		48977803.8				10.7		20.0			
PCB-1016 Peak 4	25124540 19943730	23241920 18339945	22635935	22188702	Ave		21912462.0				11.1		20.0			
PCB-1016 Peak 5	27292740 19500851	24580270 17956904	21928840	21262078	Ave		22086947.1				15.4		20.0			
PCB-1260 Peak 1	35366040 27377235	32890200 25286124	30229660	29145760	Ave		30049169.8				12.2		20.0			
PCB-1260 Peak 2	62383700 49088916	57833230 45409865	53964160	51654694	Ave		53389094.2				11.4		20.0			
PCB-1260 Peak 3	57955700 46771566	53541720 43565571	49949480	48369582	Ave		50025603.1				10.2		20.0			
PCB-1260 Peak 4	81909440 66457275	76139170 61525768	70774595	67713722	Ave		70753328.3				10.3		20.0			
PCB-1260 Peak 5	40319860 32648835	38311820 30310011	35336160	33452456	Ave		35063190.3				10.6		20.0			
Tetrachloro-m-xylene	936937600 695595300	780597600 612873300	817770500	669558880	Ave		752222197				15.6		20.0			
DCB Decachlorobiphenyl	732748400 558283280	616788000 507226930	591322500	537503400	Ave		590645418				13.5		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 21:53 Calibration End Date: 03/30/2015 23:10 Calibration ID: 27551

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/28	SIG10028.D
Level 2	STD01 240-174339/29	SIG10029.D
Level 3	STD02 240-174339/30	SIG10030.D
Level 4	STD05 240-174339/31	SIG10031.D
Level 5	STD1 240-174339/32	SIG10032.D
Level 6	STD2 240-174339/33	SIG10033.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	768856 20361498	1467303	2630279	6244491	11508707	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	1449108 36700058	2515109	4790204	11465431	20644934	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	2788489 82876371	5315113	10033234	24174290	44992977	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	1256227 36679890	2324192	4527187	11094351	19943730	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	1364637 35913807	2458027	4385768	10631039	19500851	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	1768302 50572248	3289020	6045932	14572880	27377235	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	3119185 90819730	5783323	10792832	25827347	49088916	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	2897785 87131141	5354172	9989896	24184791	46771566	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	4095472 123051535	7613917	14154919	33856861	66457275	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	2015993 60620021	3831182	7067232	16726228	32648835	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	2342344 61287330	3902988	8177705	16738972	34779765	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	1831871 50722693	3083940	5913225	13437585	27914164	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10028.D
Lims ID: STD005 1660
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 21:53:33 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-028
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:31 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.445	1.455	-0.010	2342344	0.002500	0.003114	
2	1.842	1.851	-0.009	2261035	0.002500	0.003023	
						RPD = 2.97	
6 PCB-1016							
1	1.779	1.790	-0.011	768856	0.0500	0.0596	
1	2.118	2.131	-0.013	1449108	0.0500	0.0621	
1	2.577	2.589	-0.012	2788489	0.0500	0.0569	
1	2.713	2.726	-0.013	1256227	0.0500	0.0573	
1	3.140	3.153	-0.013	1364637	0.0500	0.0618	
		Average of Peak Amounts =				0.0596	
2	2.375	2.386	-0.011	907734	0.0500	0.0633	
2	2.817	2.828	-0.011	1751865	0.0500	0.0640	
2	3.310	3.321	-0.011	3291430	0.0500	0.0605	
2	3.457	3.469	-0.012	1597822	0.0500	0.0652	
2	3.971	3.984	-0.013	1291147	0.0500	0.0657	
		Average of Peak Amounts =				0.0637	
						RPD = 6.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.430	4.445	-0.015	1768302	0.0500	0.0588	
1	4.731	4.746	-0.015	3119185	0.0500	0.0584	
1	5.023	5.036	-0.013	2897785	0.0500	0.0579	
1	5.748	5.760	-0.012	4095472	0.0500	0.0579	
1	6.035	6.051	-0.016	2015993	0.0500	0.0575	
		Average of Peak Amounts =				0.0581	
2	5.348	5.361	-0.013	2201474	0.0500	0.0611	
2	5.582	5.597	-0.015	2269121	0.0500	0.0597	
2	5.955	5.968	-0.013	3269499	0.0500	0.0594	
2	6.650	6.663	-0.013	3931032	0.0500	0.0562	
2	7.034	7.046	-0.012	2896392	0.0500	0.0567	
		Average of Peak Amounts =				0.0586	
						RPD = 0.88	
$ 12 DCB Decachlorobiphenyl							
1	7.210	7.225	-0.015	1831871	0.002500	0.003101	
2	8.274	8.290	-0.016	2100998	0.002500	0.003256	
						RPD = 4.86	

Reagents:

SG1660@.05PPM_00012 Amount Added: 1.00 Units: mL

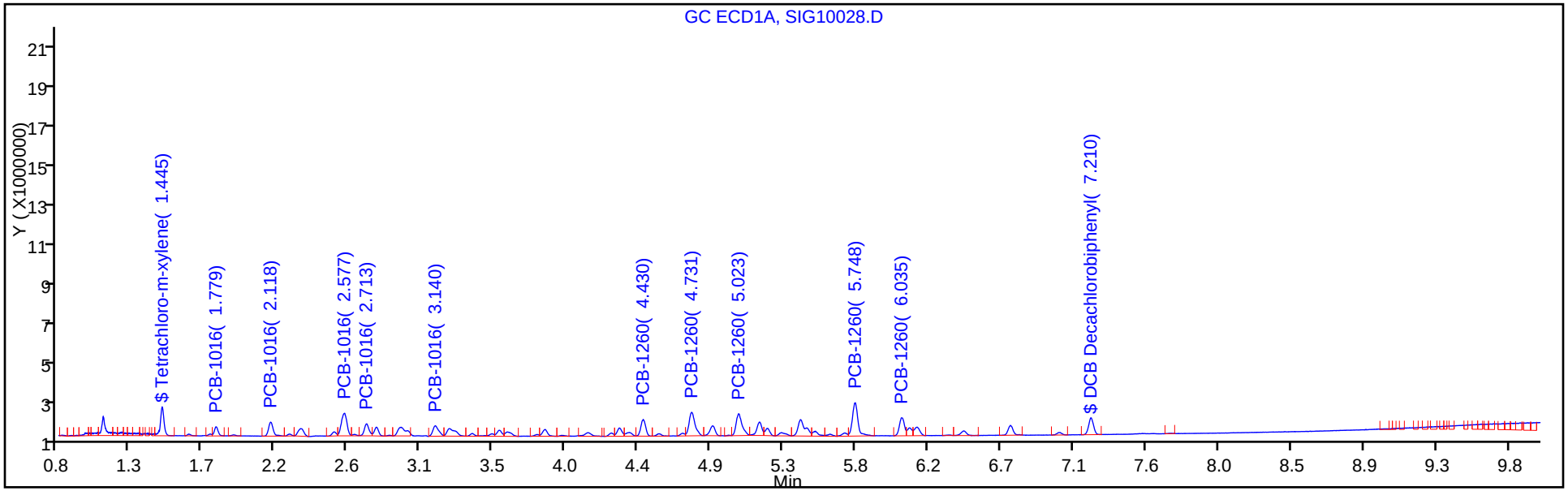
Report Date: 31-Mar-2015 06:14:32 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

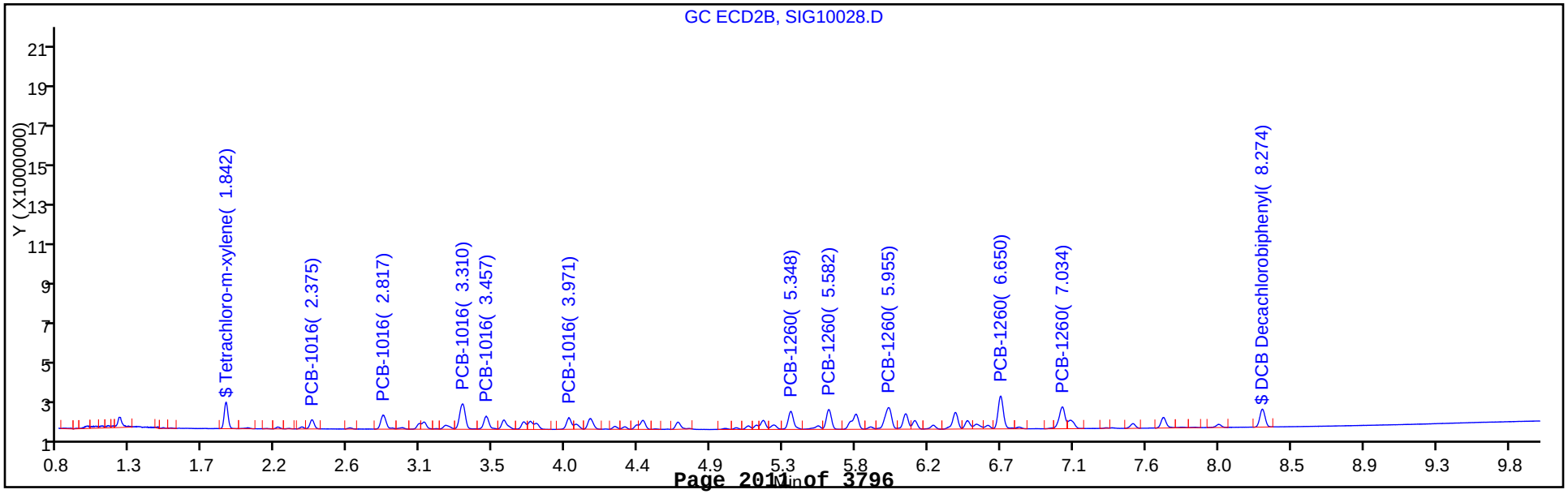
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10028.D

Injection Date:	30-Mar-2015 21:53:33	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1660			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10029.D
Lims ID: STD01 1660
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 22:09:07 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-029
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:33 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:06:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.450	1.455	-0.005	3902988	0.005000	0.005189	
2	1.846	1.851	-0.005	3842112	0.005000	0.005137	
						RPD = 1.01	
6 PCB-1016							
1	1.785	1.790	-0.005	1467303	0.1000	0.1138	
1	2.125	2.131	-0.006	2515109	0.1000	0.1078	
1	2.582	2.589	-0.007	5315113	0.1000	0.1085	
1	2.722	2.726	-0.004	2324192	0.1000	0.1061	
1	3.147	3.153	-0.006	2458027	0.1000	0.1113	
		Average of Peak Amounts =				0.1095	
2	2.380	2.386	-0.006	1652687	0.1000	0.1152	
2	2.822	2.828	-0.006	3157748	0.1000	0.1154	
2	3.316	3.321	-0.005	5730469	0.1000	0.1054	
2	3.462	3.469	-0.007	2681137	0.1000	0.1094	
2	3.976	3.984	-0.008	2213060	0.1000	0.1127	
		Average of Peak Amounts =				0.1116	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.439	4.445	-0.006	3289020	0.1000	0.1095	
1	4.740	4.746	-0.006	5783323	0.1000	0.1083	
1	5.029	5.036	-0.007	5354172	0.1000	0.1070	
1	5.753	5.760	-0.007	7613917	0.1000	0.1076	
1	6.047	6.051	-0.004	3831182	0.1000	0.1093	
		Average of Peak Amounts =				0.1083	
2	5.354	5.361	-0.007	3937927	0.1000	0.1093	
2	5.591	5.597	-0.006	4087199	0.1000	0.1076	
2	5.961	5.968	-0.007	5820572	0.1000	0.1057	
2	6.657	6.663	-0.006	7304283	0.1000	0.1045	
2	7.039	7.046	-0.007	5388737	0.1000	0.1055	
		Average of Peak Amounts =				0.1065	
						RPD = 1.70	
$ 12 DCB Decachlorobiphenyl							
1	7.219	7.225	-0.006	3083940	0.005000	0.005221	
2	8.282	8.290	-0.008	3396844	0.005000	0.005264	
						RPD = 0.82	

Reagents:

SG1660STD@0.1_00012 Amount Added: 1.00 Units: mL

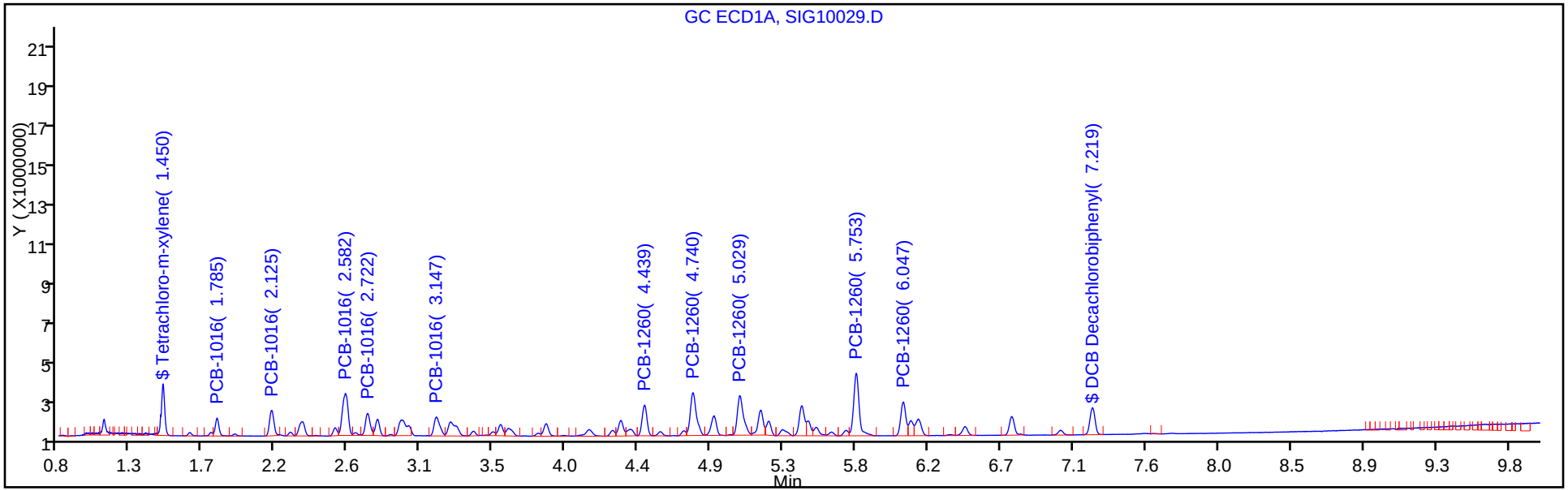
Report Date: 31-Mar-2015 06:14:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

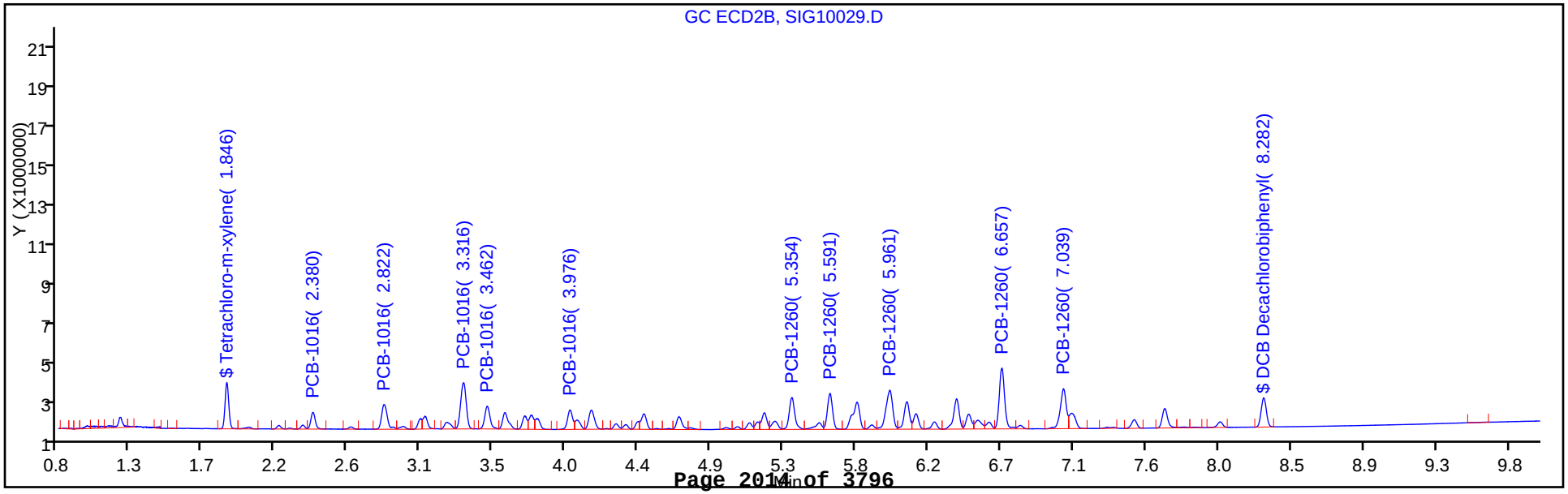
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10029.D

Injection Date:	30-Mar-2015 22:09:07	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1660			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10030.D
Lims ID: STD02 1660
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 22:24:34 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-030
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:35 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.445	1.455	-0.010	8177705	0.0100	0.0109	
2	1.846	1.851	-0.005	7185534	0.0100	0.009607	
						RPD = 12.35	
6 PCB-1016							
1	1.785	1.790	-0.005	2630279	0.2000	0.2040	
1	2.125	2.131	-0.006	4790204	0.2000	0.2053	
1	2.584	2.589	-0.005	10033234	0.2000	0.2049	
1	2.720	2.726	-0.006	4527187	0.2000	0.2066	
1	3.147	3.153	-0.006	4385768	0.2000	0.1986	
		Average of Peak Amounts =				0.2039	
2	2.380	2.386	-0.006	2906841	0.2000	0.2026	
2	2.822	2.828	-0.006	5641019	0.2000	0.2061	
2	3.315	3.321	-0.006	10577651	0.2000	0.1945	
2	3.464	3.469	-0.005	4851253	0.2000	0.1980	
2	3.977	3.984	-0.007	3903164	0.2000	0.1987	
		Average of Peak Amounts =				0.2000	
						RPD = 1.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.438	4.445	-0.007	6045932	0.2000	0.2012	
1	4.740	4.746	-0.006	10792832	0.2000	0.2022	
1	5.032	5.036	-0.004	9989896	0.2000	0.1997	
1	5.753	5.760	-0.007	14154919	0.2000	0.2001	
1	6.045	6.051	-0.006	7067232	0.2000	0.2016	
		Average of Peak Amounts =				0.2009	
2	5.354	5.361	-0.007	7106747	0.2000	0.1972	
2	5.590	5.597	-0.007	7529490	0.2000	0.1982	
2	5.962	5.968	-0.006	10728940	0.2000	0.1948	
2	6.656	6.663	-0.007	13712588	0.2000	0.1961	
2	7.040	7.046	-0.006	10079143	0.2000	0.1974	
		Average of Peak Amounts =				0.1967	
						RPD = 2.11	
$ 12 DCB Decachlorobiphenyl							
1	7.219	7.225	-0.006	5913225	0.0100	0.0100	
2	8.282	8.290	-0.008	6403214	0.0100	0.0099	
						RPD = 0.88	

Reagents:

SG1660@0.2ppm_00011 Amount Added: 1.00 Units: mL

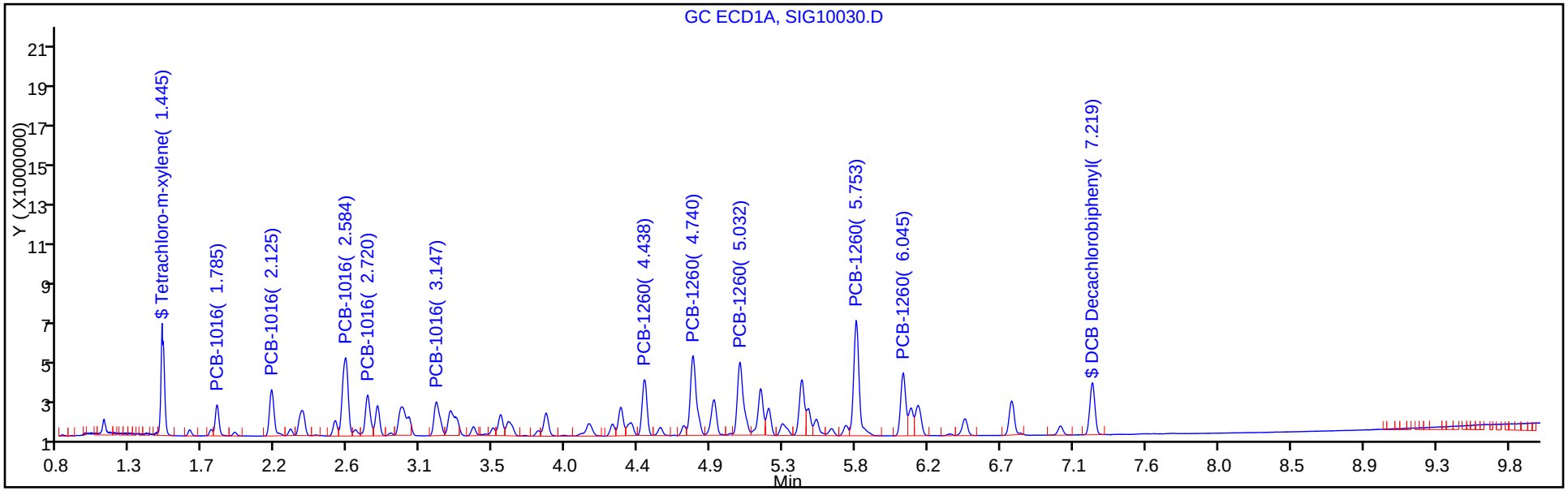
Report Date: 31-Mar-2015 06:14:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

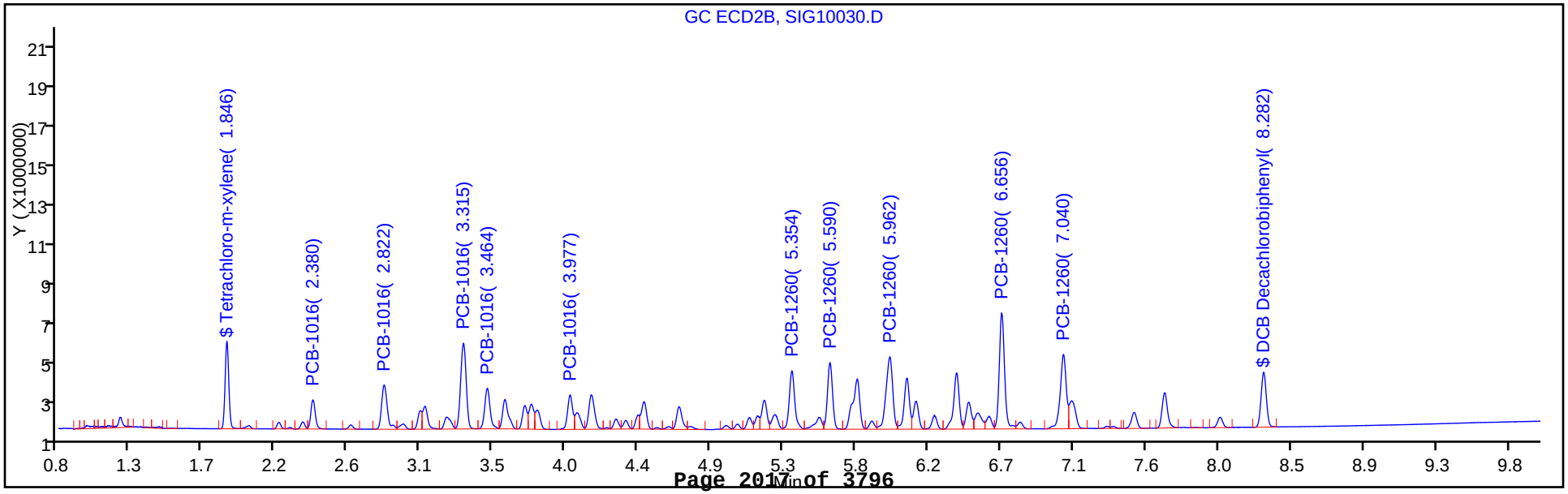
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10030.D

Injection Date:	30-Mar-2015 22:24:34	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1660			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10031.D
Lims ID: STD05 1660
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 30-Mar-2015 22:40:02 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-031
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:38 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.455	1.455	0.000	16738972	0.0250	0.0223	
2	1.851	1.851	0.000	17994211	0.0250	0.0241	
						RPD = 7.79	
6 PCB-1016							
1	1.790	1.790	0.000	6244491	0.5000	0.4842	
1	2.131	2.131	0.000	11465431	0.5000	0.4913	
1	2.589	2.589	0.000	24174290	0.5000	0.4936	
1	2.726	2.726	0.000	11094351	0.5000	0.5063	
1	3.153	3.153	0.000	10631039	0.5000	0.4813	
		Average of Peak Amounts =				0.4913	
2	2.386	2.386	0.000	6740583	0.5000	0.4697	
2	2.828	2.828	0.000	13045833	0.5000	0.4766	
2	3.321	3.321	0.000	25982490	0.5000	0.4777	
2	3.469	3.469	0.000	11438306	0.5000	0.4668	
2	3.984	3.984	0.000	9024129	0.5000	0.4595	
		Average of Peak Amounts =				0.4701	
						RPD = 4.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.445	4.445	0.000	14572880	0.5000	0.4850	
1	4.746	4.746	0.000	25827347	0.5000	0.4838	
1	5.036	5.036	0.000	24184791	0.5000	0.4834	
1	5.760	5.760	0.000	33856861	0.5000	0.4785	
1	6.051	6.051	0.000	16726228	0.5000	0.4770	
		Average of Peak Amounts =				0.4815	
2	5.361	5.361	0.000	17073105	0.5000	0.4738	
2	5.597	5.597	0.000	18051151	0.5000	0.4751	
2	5.968	5.968	0.000	25989418	0.5000	0.4720	
2	6.663	6.663	0.000	32955803	0.5000	0.4713	
2	7.046	7.046	0.000	23829543	0.5000	0.4667	
		Average of Peak Amounts =				0.4718	
						RPD = 2.05	
$ 12 DCB Decachlorobiphenyl							
1	7.225	7.225	0.000	13437585	0.0250	0.0228	
2	8.290	8.290	0.000	14084030	0.0250	0.0218	
						RPD = 4.14	

Reagents:

SG1660@0.5PPM_00042 Amount Added: 1.00 Units: mL

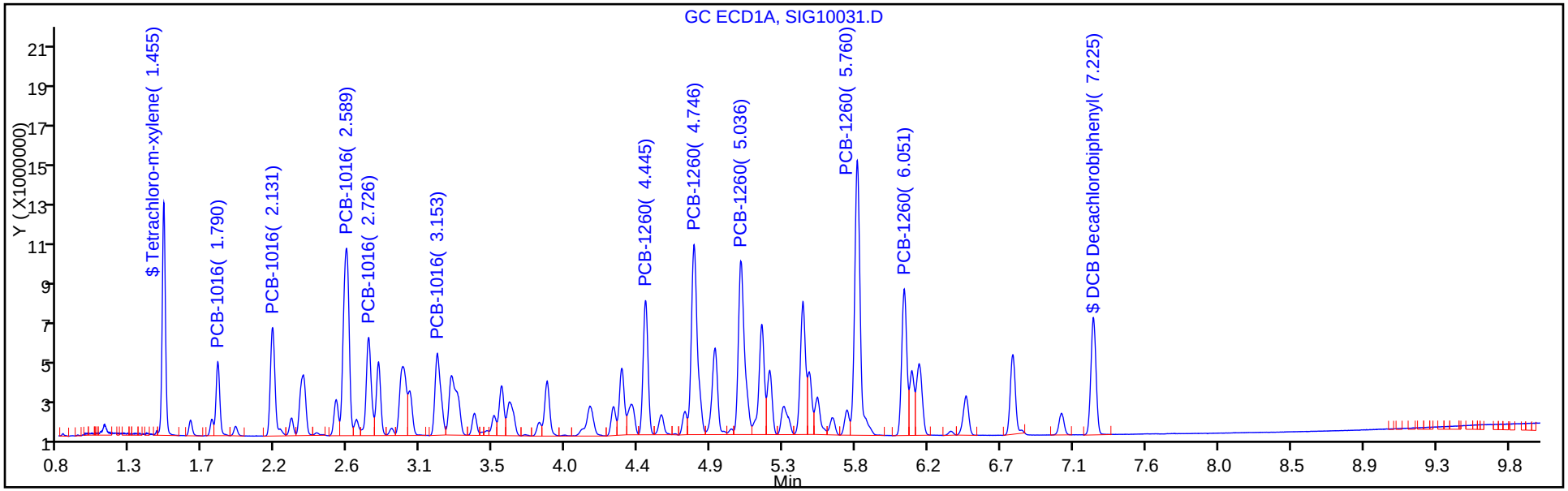
Report Date: 31-Mar-2015 06:14:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

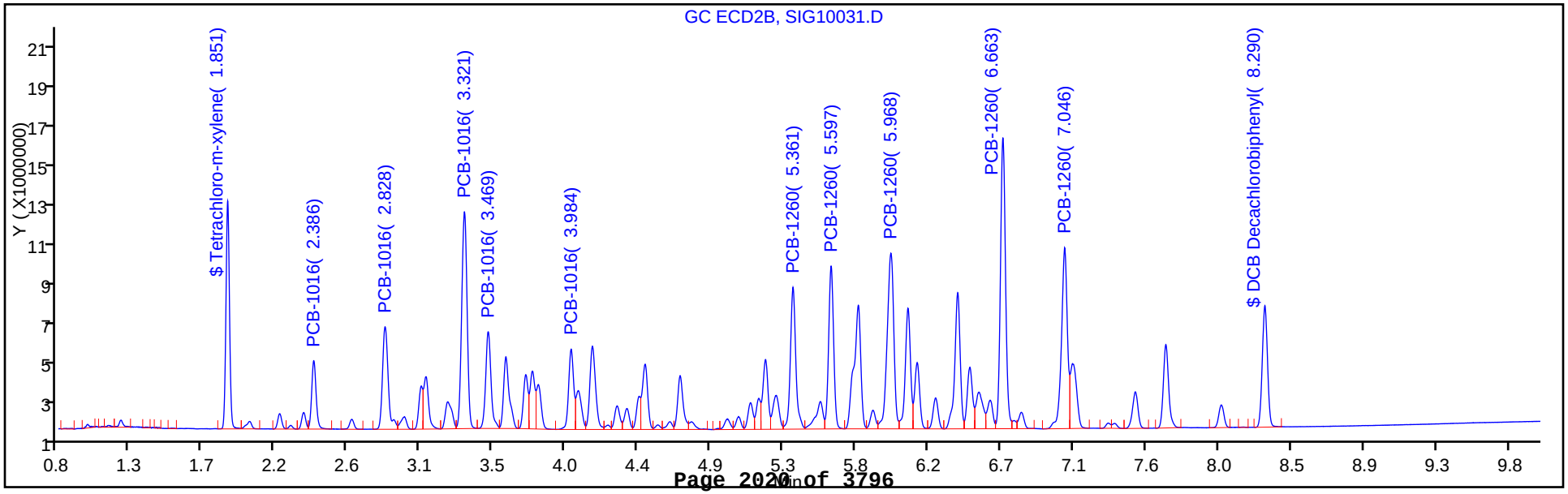
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10031.D

Injection Date:	30-Mar-2015 22:40:02	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1660			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10032.D
Lims ID: STD1 1660
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 22:55:28 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-032
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:40 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.455	1.455	0.000	34779765	0.0500	0.0462	
2	1.851	1.851	0.000	35079083	0.0500	0.0469	
						RPD = 1.42	
6 PCB-1016							
1	1.790	1.790	0.000	11508707	1.00	0.8924	
1	2.130	2.131	-0.001	20644934	1.00	0.8847	
1	2.589	2.589	0.000	44992977	1.00	0.9186	
1	2.726	2.726	0.000	19943730	1.00	0.9102	
1	3.151	3.153	-0.002	19500851	1.00	0.8829	
		Average of Peak Amounts =				0.8978	
2	2.385	2.386	-0.001	12240949	1.00	0.8531	
2	2.828	2.828	0.000	22676227	1.00	0.8284	
2	3.321	3.321	0.000	50598588	1.00	0.9303	
2	3.469	3.469	0.000	21323724	1.00	0.8702	
2	3.982	3.984	-0.002	16777539	1.00	0.8543	
		Average of Peak Amounts =				0.8672	
						RPD = 3.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.445	4.445	0.000	27377235	1.00	0.9111	
1	4.745	4.746	-0.001	49088916	1.00	0.9195	
1	5.037	5.036	0.001	46771566	1.00	0.9350	
1	5.760	5.760	0.000	66457275	1.00	0.9393	
1	6.050	6.051	-0.001	32648835	1.00	0.9311	
		Average of Peak Amounts =				0.9272	
2	5.360	5.361	-0.001	32508172	1.00	0.9022	
2	5.596	5.597	-0.001	34840627	1.00	0.9170	
2	5.969	5.968	0.001	52021997	1.00	0.9447	
2	6.664	6.663	0.001	68328477	1.00	0.9772	
2	7.047	7.046	0.001	49194774	1.00	0.9634	
		Average of Peak Amounts =				0.9409	
						RPD = 1.47	
$ 12 DCB Decachlorobiphenyl							
1	7.226	7.225	0.001	27914164	0.0500	0.0473	
2	8.289	8.290	-0.001	29933367	0.0500	0.0464	
						RPD = 1.86	

Reagents:

SG1660@1.0PPM_00011 Amount Added: 1.00 Units: mL

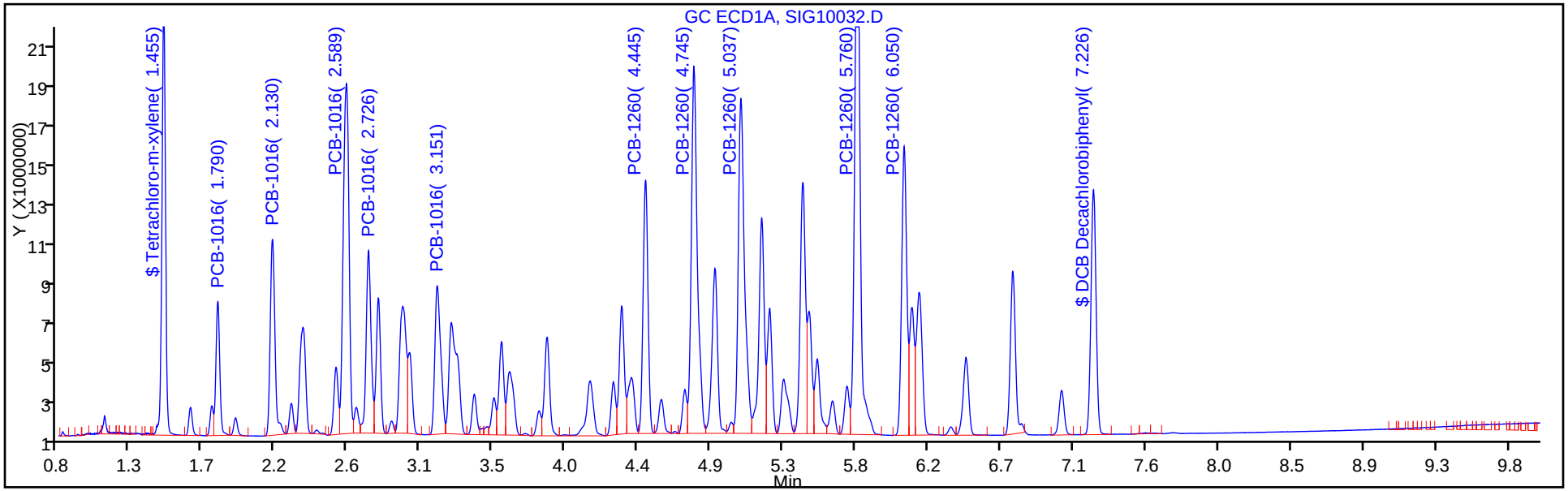
Report Date: 31-Mar-2015 06:14:41 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

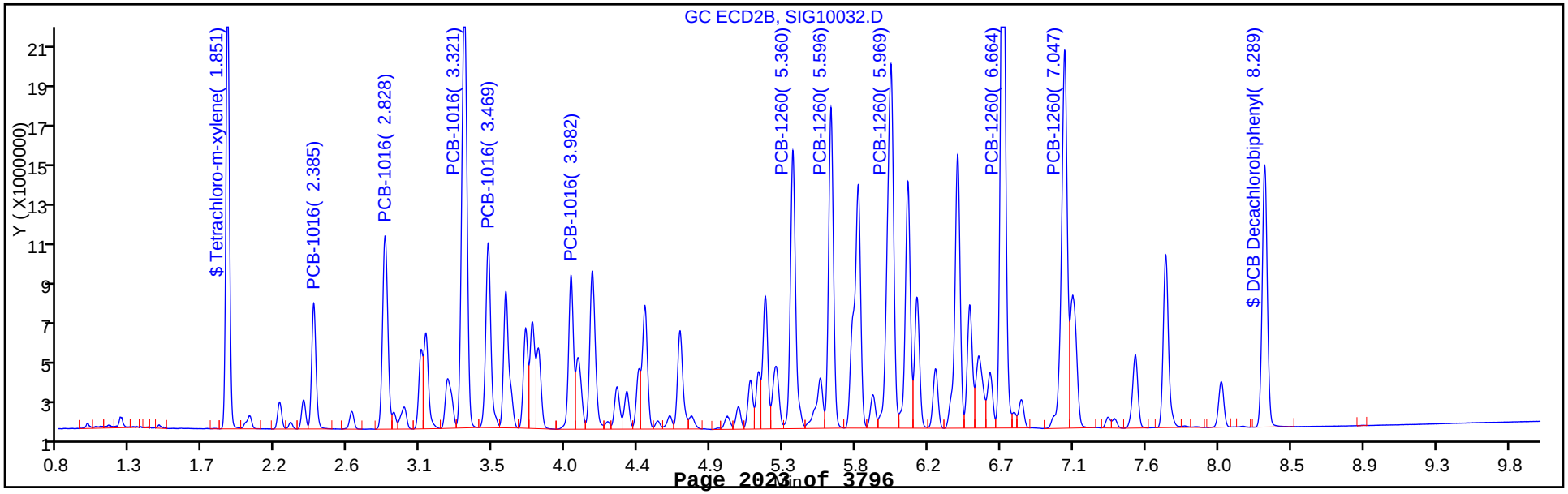
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10032.D

Injection Date:	30-Mar-2015 22:55:28	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1660			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D
Lims ID: STD2 1660
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 23:10:59 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-033
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:42 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:07:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.456	1.455	0.001	61287330	0.1000	0.0815	
2	1.852	1.851	0.001	67510901	0.1000	0.0903	
						RPD = 10.23	
6 PCB-1016							
1	1.791	1.790	0.001	20361498	2.00	1.58	
1	2.130	2.131	-0.001	36700058	2.00	1.57	
1	2.589	2.589	0.000	82876371	2.00	1.69	
1	2.727	2.726	0.001	36679890	2.00	1.67	
1	3.152	3.153	-0.001	35913807	2.00	1.63	
		Average of Peak Amounts =				1.63	
2	2.386	2.386	0.000	22316608	2.00	1.56	
2	2.829	2.828	0.001	41291131	2.00	1.51	
2	3.321	3.321	0.000	95497488	2.00	1.76	
2	3.469	3.469	0.000	39617994	2.00	1.62	
2	3.983	3.984	-0.001	31083720	2.00	1.58	
		Average of Peak Amounts =				1.60	
						RPD = 1.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.445	4.445	0.000	50572248	2.00	1.68	
1	4.747	4.746	0.001	90819730	2.00	1.70	
1	5.037	5.036	0.001	87131141	2.00	1.74	
1	5.761	5.760	0.001	123051535	2.00	1.74	
1	6.052	6.051	0.001	60620021	2.00	1.73	
		Average of Peak Amounts =				1.72	
2	5.361	5.361	0.000	61189588	2.00	1.70	
2	5.597	5.597	0.000	66251011	2.00	1.74	
2	5.969	5.968	0.001	98335317	2.00	1.79	
2	6.664	6.663	0.001	130131056	2.00	1.86	
2	7.047	7.046	0.001	94631471	2.00	1.85	
		Average of Peak Amounts =				1.79	
						RPD = 3.97	
$ 12 DCB Decachlorobiphenyl							
1	7.227	7.225	0.002	50722693	0.1000	0.0859	
2	8.288	8.290	-0.002	54940278	0.1000	0.0851	
						RPD = 0.86	

Reagents:

SG1660@2.0PPM_00012 Amount Added: 1.00 Units: mL

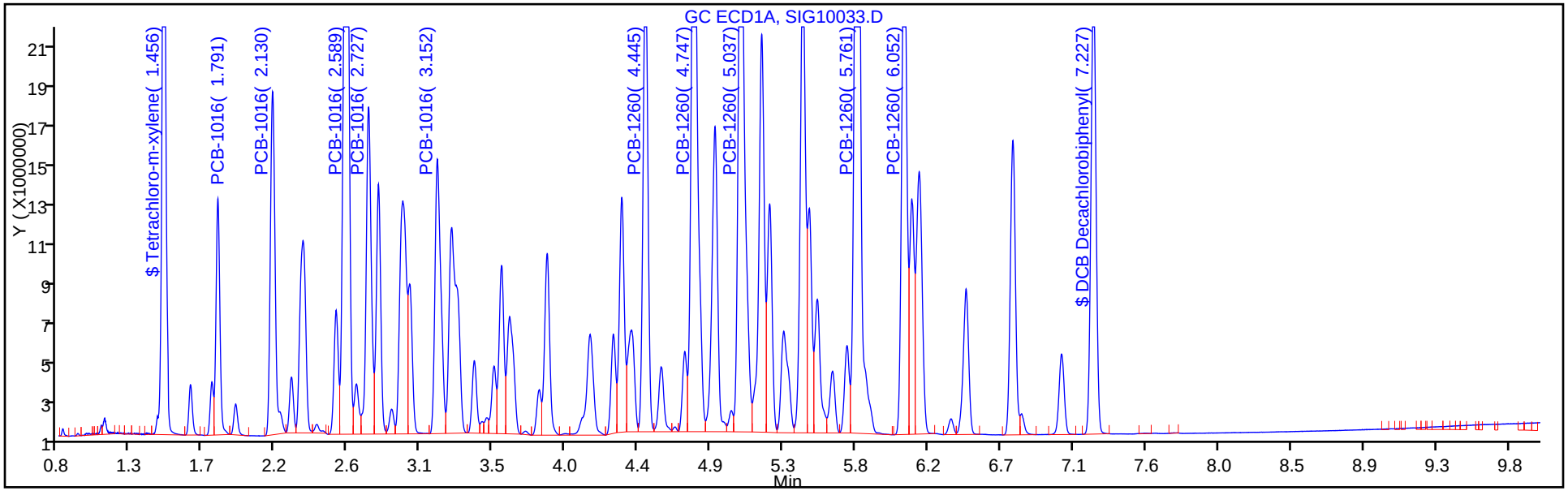
Report Date: 31-Mar-2015 06:14:44 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

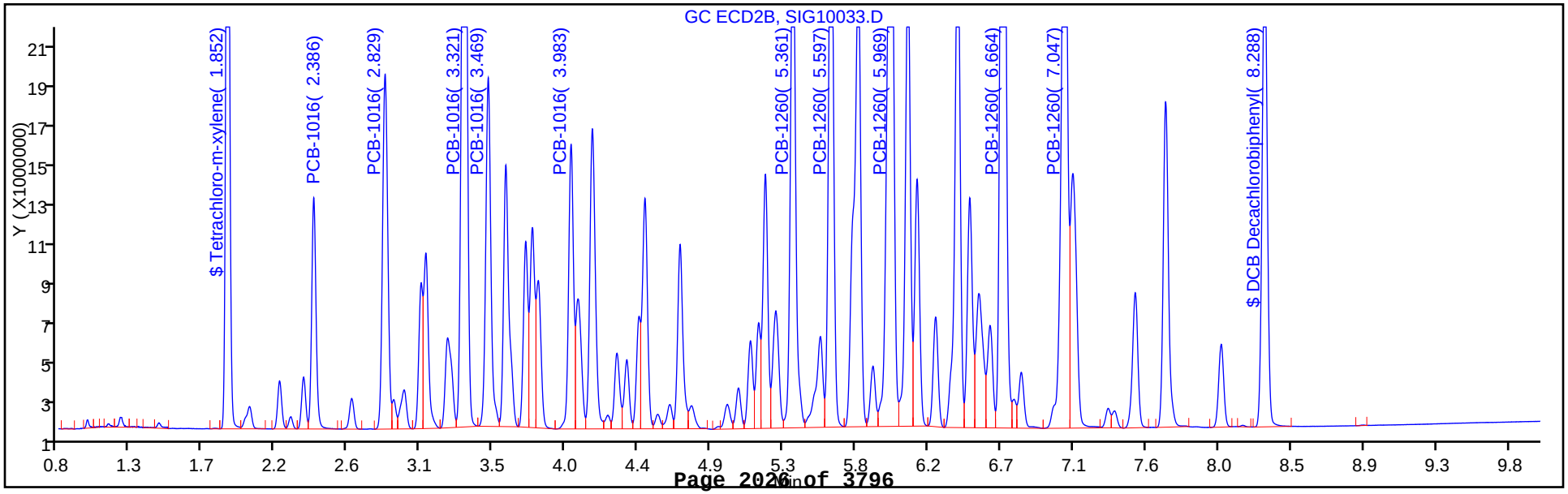
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Injection Date:	30-Mar-2015 23:10:59	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1660			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 21:53 Calibration End Date: 03/30/2015 23:10 Calibration ID: 27552

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/28	SIG10028.D
Level 2	STD01 240-174339/29	SIG10029.D
Level 3	STD02 240-174339/30	SIG10030.D
Level 4	STD05 240-174339/31	SIG10031.D
Level 5	STD1 240-174339/32	SIG10032.D
Level 6	STD2 240-174339/33	SIG10033.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	2.375	2.380	2.380	2.386	2.385	2.386					2.336 - 2.436	2.382
PCB-1016 Peak 2	2.817	2.822	2.822	2.828	2.828	2.829					2.778 - 2.878	2.824
PCB-1016 Peak 3	3.310	3.316	3.315	3.321	3.321	3.321					3.271 - 3.371	3.317
PCB-1016 Peak 4	3.457	3.462	3.464	3.469	3.469	3.469					3.419 - 3.519	3.465
PCB-1016 Peak 5	3.971	3.976	3.977	3.984	3.982	3.983					3.934 - 4.034	3.979
PCB-1260 Peak 1	5.348	5.354	5.354	5.361	5.360	5.361					5.311 - 5.411	5.356
PCB-1260 Peak 2	5.582	5.591	5.590	5.597	5.596	5.597					5.547 - 5.647	5.592
PCB-1260 Peak 3	5.955	5.961	5.962	5.968	5.969	5.969					5.918 - 6.018	5.964
PCB-1260 Peak 4	6.650	6.657	6.656	6.663	6.664	6.664					6.613 - 6.713	6.659
PCB-1260 Peak 5	7.034	7.039	7.040	7.046	7.047	7.047					6.996 - 7.096	7.042
Tetrachloro-m-xylene	1.842	1.846	1.846	1.851	1.851	1.852					1.801 - 1.901	1.848
DCB Decachlorobiphenyl	8.274	8.282	8.282	8.290	8.289	8.288					8.240 - 8.340	8.284

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 21:53 Calibration End Date: 03/30/2015 23:10 Calibration ID: 27552

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/28	SIG10028.D
Level 2	STD01 240-174339/29	SIG10029.D
Level 3	STD02 240-174339/30	SIG10030.D
Level 4	STD05 240-174339/31	SIG10031.D
Level 5	STD1 240-174339/32	SIG10032.D
Level 6	STD2 240-174339/33	SIG10033.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	18154680 12240949	16526870 11158304	14534205	13481166	Ave		14349362.3				18.3		20.0			
PCB-1016 Peak 2	35037300 22676227	31577480 20645566	28205095	26091666	Ave		27372222.3				19.7		20.0			
PCB-1016 Peak 3	65828600 50598588	57304690 47748744	52888255	51964980	Ave		54388976.2				11.8		20.0			
PCB-1016 Peak 4	31956440 21323724	26811370 19808997	24256265	22876612	Ave		24505568.0				17.9		20.0			
PCB-1016 Peak 5	25822940 16777539	22130600 15541860	19515820	18048258	Ave		19639502.8				19.3		20.0			
PCB-1260 Peak 1	44029480 32508172	39379270 30594794	35533735	34146210	Ave		36031943.5				13.6		20.0			
PCB-1260 Peak 2	45382420 34840627	40871990 33125506	37647450	36102302	Ave		37995049.1				11.8		20.0			
PCB-1260 Peak 3	65389980 52021997	58205720 49167659	53644700	51978836	Ave		55068148.6				10.7		20.0			
PCB-1260 Peak 4	78620640 68328477	73042830 65065528	68562940	65911606	Ave		69922003.5				7.3		20.0			
PCB-1260 Peak 5	57927840 49194774	53887370 47315736	50395715	47659086	Ave		51063420.1				8.1		20.0			
Tetrachloro-m-xylene	904414000 701581660	768422400 675109010	718553400	719768440	Ave		747974818				11.0		20.0			
DCB Decachlorobiphenyl	840399200 598667340	679368800 549402780	640321400	563361200	Ave		645253453				16.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 174339

SDG No.:

Instrument ID: A2HP10 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/30/2015 21:53 Calibration End Date: 03/30/2015 23:10 Calibration ID: 27552

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-174339/28	SIG10028.D
Level 2	STD01 240-174339/29	SIG10029.D
Level 3	STD02 240-174339/30	SIG10030.D
Level 4	STD05 240-174339/31	SIG10031.D
Level 5	STD1 240-174339/32	SIG10032.D
Level 6	STD2 240-174339/33	SIG10033.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	907734 22316608	1652687	2906841	6740583	12240949	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	1751865 41291131	3157748	5641019	13045833	22676227	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	3291430 95497488	5730469	10577651	25982490	50598588	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	1597822 39617994	2681137	4851253	11438306	21323724	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	1291147 31083720	2213060	3903164	9024129	16777539	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	2201474 61189588	3937927	7106747	17073105	32508172	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	2269121 66251011	4087199	7529490	18051151	34840627	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	3269499 98335317	5820572	10728940	25989418	52021997	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	3931032 130131056	7304283	13712588	32955803	68328477	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	2896392 94631471	5388737	10079143	23829543	49194774	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	2261035 67510901	3842112	7185534	17994211	35079083	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	2100998 54940278	3396844	6403214	14084030	29933367	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10028.D
Lims ID: STD005 1660
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Mar-2015 21:53:33 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-028
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:31 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.445	1.455	-0.010	2342344	0.002500	0.003114	
2	1.842	1.851	-0.009	2261035	0.002500	0.003023	
						RPD = 2.97	
6 PCB-1016							
1	1.779	1.790	-0.011	768856	0.0500	0.0596	
1	2.118	2.131	-0.013	1449108	0.0500	0.0621	
1	2.577	2.589	-0.012	2788489	0.0500	0.0569	
1	2.713	2.726	-0.013	1256227	0.0500	0.0573	
1	3.140	3.153	-0.013	1364637	0.0500	0.0618	
		Average of Peak Amounts =				0.0596	
2	2.375	2.386	-0.011	907734	0.0500	0.0633	
2	2.817	2.828	-0.011	1751865	0.0500	0.0640	
2	3.310	3.321	-0.011	3291430	0.0500	0.0605	
2	3.457	3.469	-0.012	1597822	0.0500	0.0652	
2	3.971	3.984	-0.013	1291147	0.0500	0.0657	
		Average of Peak Amounts =				0.0637	
						RPD = 6.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.430	4.445	-0.015	1768302	0.0500	0.0588	
1	4.731	4.746	-0.015	3119185	0.0500	0.0584	
1	5.023	5.036	-0.013	2897785	0.0500	0.0579	
1	5.748	5.760	-0.012	4095472	0.0500	0.0579	
1	6.035	6.051	-0.016	2015993	0.0500	0.0575	
		Average of Peak Amounts =				0.0581	
2	5.348	5.361	-0.013	2201474	0.0500	0.0611	
2	5.582	5.597	-0.015	2269121	0.0500	0.0597	
2	5.955	5.968	-0.013	3269499	0.0500	0.0594	
2	6.650	6.663	-0.013	3931032	0.0500	0.0562	
2	7.034	7.046	-0.012	2896392	0.0500	0.0567	
		Average of Peak Amounts =				0.0586	
						RPD = 0.88	
$ 12 DCB Decachlorobiphenyl							
1	7.210	7.225	-0.015	1831871	0.002500	0.003101	
2	8.274	8.290	-0.016	2100998	0.002500	0.003256	
						RPD = 4.86	

Reagents:

SG1660@.05PPM_00012 Amount Added: 1.00 Units: mL

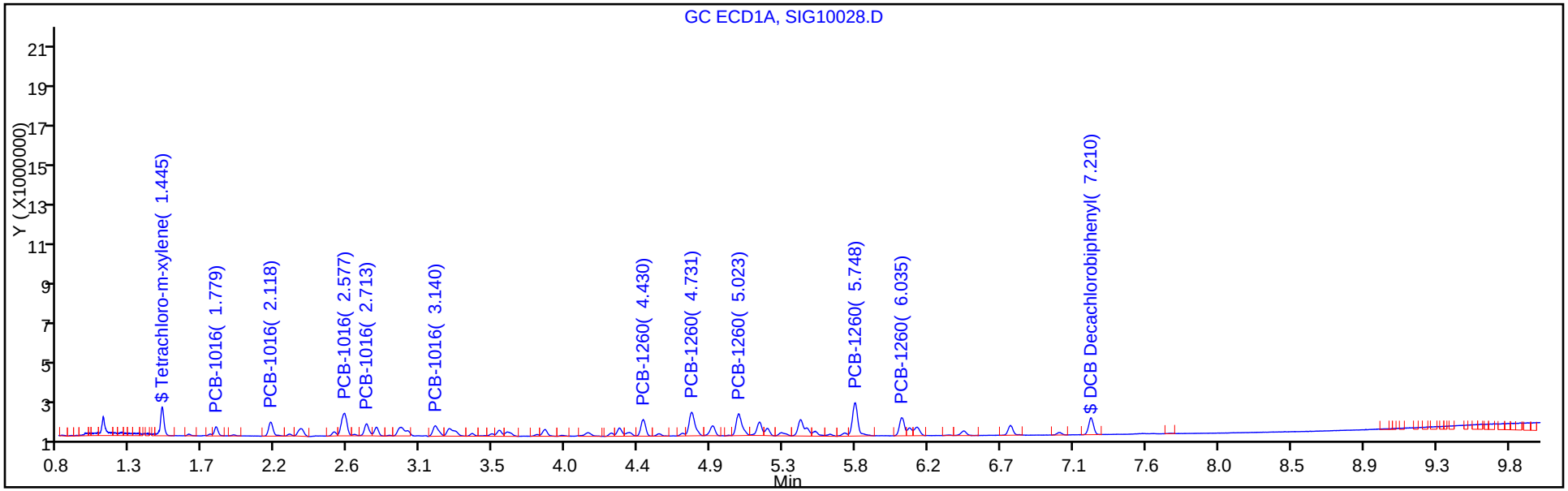
Report Date: 31-Mar-2015 06:14:33 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

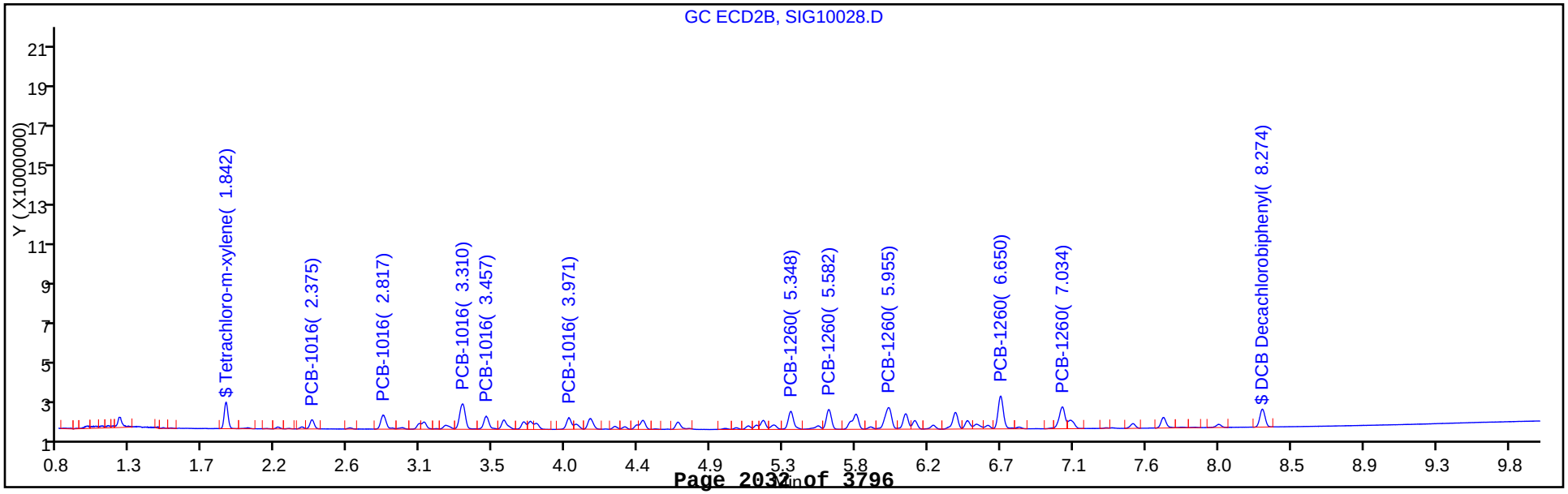
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10028.D

Injection Date:	30-Mar-2015 21:53:33	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD005 1660			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10029.D
Lims ID: STD01 1660
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Mar-2015 22:09:07 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-029
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:33 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:06:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.450	1.455	-0.005	3902988	0.005000	0.005189	
2	1.846	1.851	-0.005	3842112	0.005000	0.005137	
						RPD = 1.01	
6 PCB-1016							
1	1.785	1.790	-0.005	1467303	0.1000	0.1138	
1	2.125	2.131	-0.006	2515109	0.1000	0.1078	
1	2.582	2.589	-0.007	5315113	0.1000	0.1085	
1	2.722	2.726	-0.004	2324192	0.1000	0.1061	
1	3.147	3.153	-0.006	2458027	0.1000	0.1113	
		Average of Peak Amounts =				0.1095	
2	2.380	2.386	-0.006	1652687	0.1000	0.1152	
2	2.822	2.828	-0.006	3157748	0.1000	0.1154	
2	3.316	3.321	-0.005	5730469	0.1000	0.1054	
2	3.462	3.469	-0.007	2681137	0.1000	0.1094	
2	3.976	3.984	-0.008	2213060	0.1000	0.1127	
		Average of Peak Amounts =				0.1116	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.439	4.445	-0.006	3289020	0.1000	0.1095	
1	4.740	4.746	-0.006	5783323	0.1000	0.1083	
1	5.029	5.036	-0.007	5354172	0.1000	0.1070	
1	5.753	5.760	-0.007	7613917	0.1000	0.1076	
1	6.047	6.051	-0.004	3831182	0.1000	0.1093	
		Average of Peak Amounts =				0.1083	
2	5.354	5.361	-0.007	3937927	0.1000	0.1093	
2	5.591	5.597	-0.006	4087199	0.1000	0.1076	
2	5.961	5.968	-0.007	5820572	0.1000	0.1057	
2	6.657	6.663	-0.006	7304283	0.1000	0.1045	
2	7.039	7.046	-0.007	5388737	0.1000	0.1055	
		Average of Peak Amounts =				0.1065	
						RPD = 1.70	
$ 12 DCB Decachlorobiphenyl							
1	7.219	7.225	-0.006	3083940	0.005000	0.005221	
2	8.282	8.290	-0.008	3396844	0.005000	0.005264	
						RPD = 0.82	

Reagents:

SG1660STD@0.1_00012 Amount Added: 1.00 Units: mL

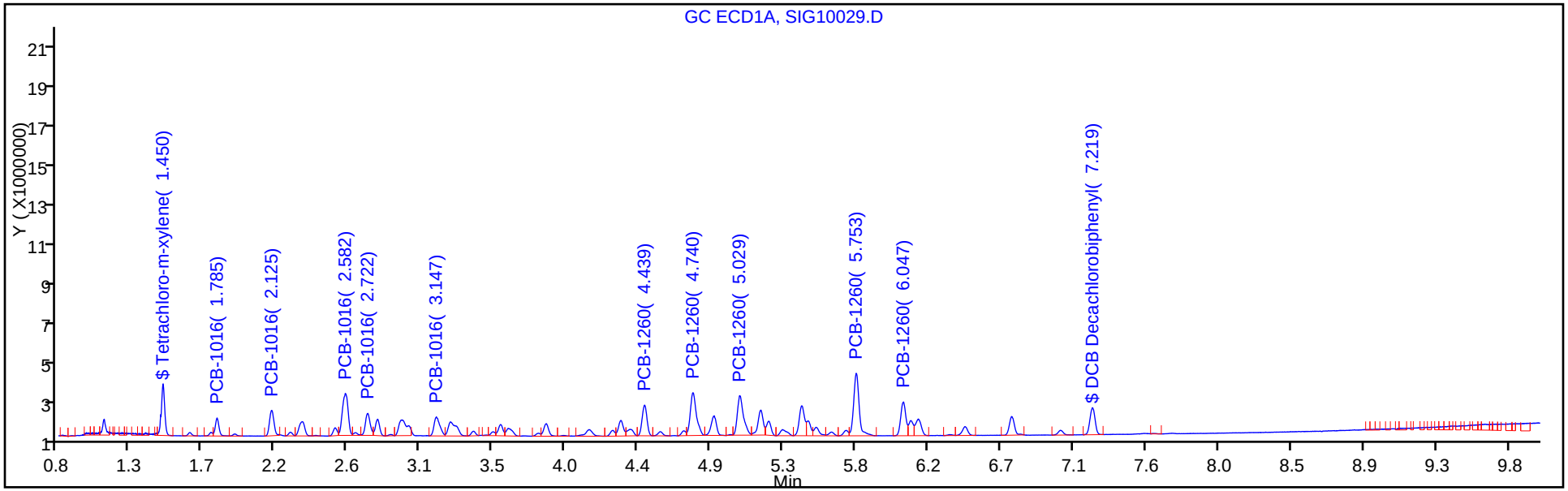
Report Date: 31-Mar-2015 06:14:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

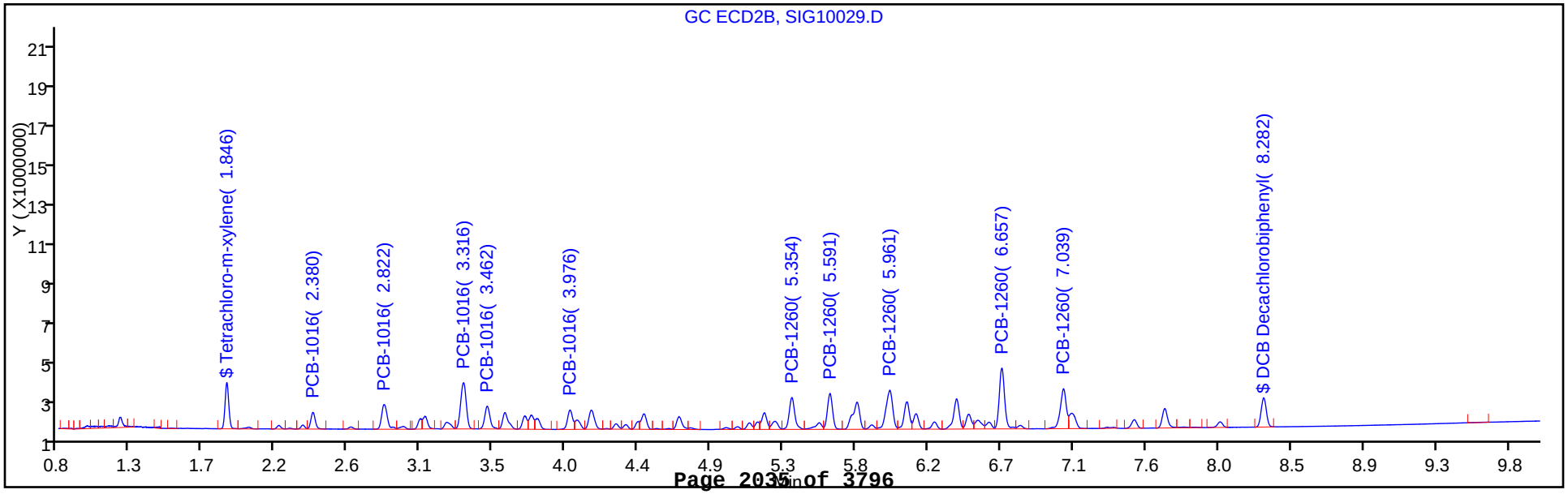
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10029.D

Injection Date:	30-Mar-2015 22:09:07	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD01 1660			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10030.D
Lims ID: STD02 1660
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Mar-2015 22:24:34 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-030
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:35 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.445	1.455	-0.010	8177705	0.0100	0.0109	
2	1.846	1.851	-0.005	7185534	0.0100	0.009607	
						RPD = 12.35	
6 PCB-1016							
1	1.785	1.790	-0.005	2630279	0.2000	0.2040	
1	2.125	2.131	-0.006	4790204	0.2000	0.2053	
1	2.584	2.589	-0.005	10033234	0.2000	0.2049	
1	2.720	2.726	-0.006	4527187	0.2000	0.2066	
1	3.147	3.153	-0.006	4385768	0.2000	0.1986	
		Average of Peak Amounts =				0.2039	
2	2.380	2.386	-0.006	2906841	0.2000	0.2026	
2	2.822	2.828	-0.006	5641019	0.2000	0.2061	
2	3.315	3.321	-0.006	10577651	0.2000	0.1945	
2	3.464	3.469	-0.005	4851253	0.2000	0.1980	
2	3.977	3.984	-0.007	3903164	0.2000	0.1987	
		Average of Peak Amounts =				0.2000	
						RPD = 1.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.438	4.445	-0.007	6045932	0.2000	0.2012	
1	4.740	4.746	-0.006	10792832	0.2000	0.2022	
1	5.032	5.036	-0.004	9989896	0.2000	0.1997	
1	5.753	5.760	-0.007	14154919	0.2000	0.2001	
1	6.045	6.051	-0.006	7067232	0.2000	0.2016	
		Average of Peak Amounts =				0.2009	
2	5.354	5.361	-0.007	7106747	0.2000	0.1972	
2	5.590	5.597	-0.007	7529490	0.2000	0.1982	
2	5.962	5.968	-0.006	10728940	0.2000	0.1948	
2	6.656	6.663	-0.007	13712588	0.2000	0.1961	
2	7.040	7.046	-0.006	10079143	0.2000	0.1974	
		Average of Peak Amounts =				0.1967	
						RPD = 2.11	
$ 12 DCB Decachlorobiphenyl							
1	7.219	7.225	-0.006	5913225	0.0100	0.0100	
2	8.282	8.290	-0.008	6403214	0.0100	0.0099	
						RPD = 0.88	

Reagents:

SG1660@0.2ppm_00011 Amount Added: 1.00 Units: mL

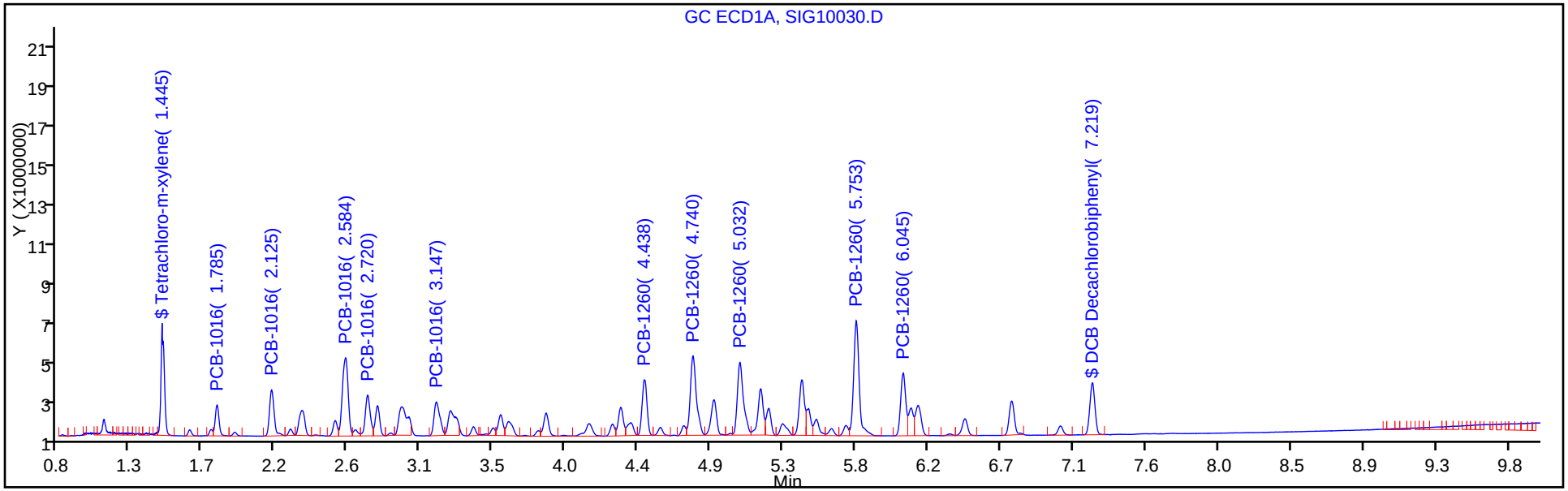
Report Date: 31-Mar-2015 06:14:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

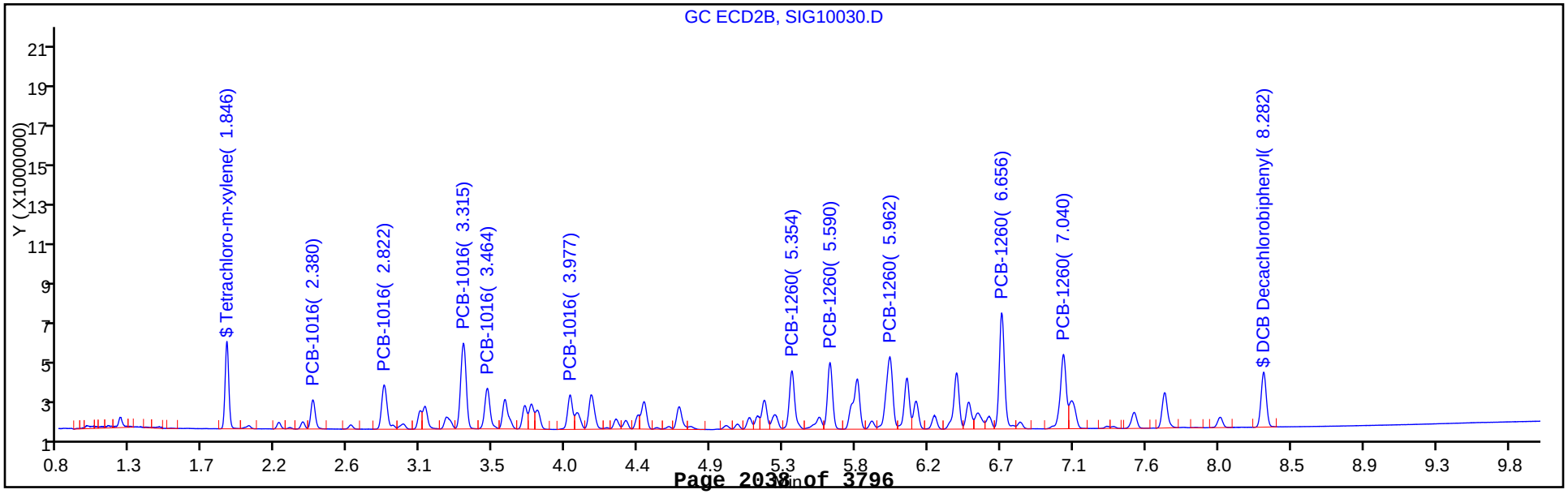
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10030.D

Injection Date:	30-Mar-2015 22:24:34	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD02 1660			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10031.D
Lims ID: STD05 1660
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 30-Mar-2015 22:40:02 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-031
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:38 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.455	1.455	0.000	16738972	0.0250	0.0223	
2	1.851	1.851	0.000	17994211	0.0250	0.0241	
						RPD = 7.79	
6 PCB-1016							
1	1.790	1.790	0.000	6244491	0.5000	0.4842	
1	2.131	2.131	0.000	11465431	0.5000	0.4913	
1	2.589	2.589	0.000	24174290	0.5000	0.4936	
1	2.726	2.726	0.000	11094351	0.5000	0.5063	
1	3.153	3.153	0.000	10631039	0.5000	0.4813	
		Average of Peak Amounts =				0.4913	
2	2.386	2.386	0.000	6740583	0.5000	0.4697	
2	2.828	2.828	0.000	13045833	0.5000	0.4766	
2	3.321	3.321	0.000	25982490	0.5000	0.4777	
2	3.469	3.469	0.000	11438306	0.5000	0.4668	
2	3.984	3.984	0.000	9024129	0.5000	0.4595	
		Average of Peak Amounts =				0.4701	
						RPD = 4.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.445	4.445	0.000	14572880	0.5000	0.4850	
1	4.746	4.746	0.000	25827347	0.5000	0.4838	
1	5.036	5.036	0.000	24184791	0.5000	0.4834	
1	5.760	5.760	0.000	33856861	0.5000	0.4785	
1	6.051	6.051	0.000	16726228	0.5000	0.4770	
		Average of Peak Amounts =				0.4815	
2	5.361	5.361	0.000	17073105	0.5000	0.4738	
2	5.597	5.597	0.000	18051151	0.5000	0.4751	
2	5.968	5.968	0.000	25989418	0.5000	0.4720	
2	6.663	6.663	0.000	32955803	0.5000	0.4713	
2	7.046	7.046	0.000	23829543	0.5000	0.4667	
		Average of Peak Amounts =				0.4718	
						RPD = 2.05	
$ 12 DCB Decachlorobiphenyl							
1	7.225	7.225	0.000	13437585	0.0250	0.0228	
2	8.290	8.290	0.000	14084030	0.0250	0.0218	
						RPD = 4.14	

Reagents:

SG1660@0.5PPM_00042 Amount Added: 1.00 Units: mL

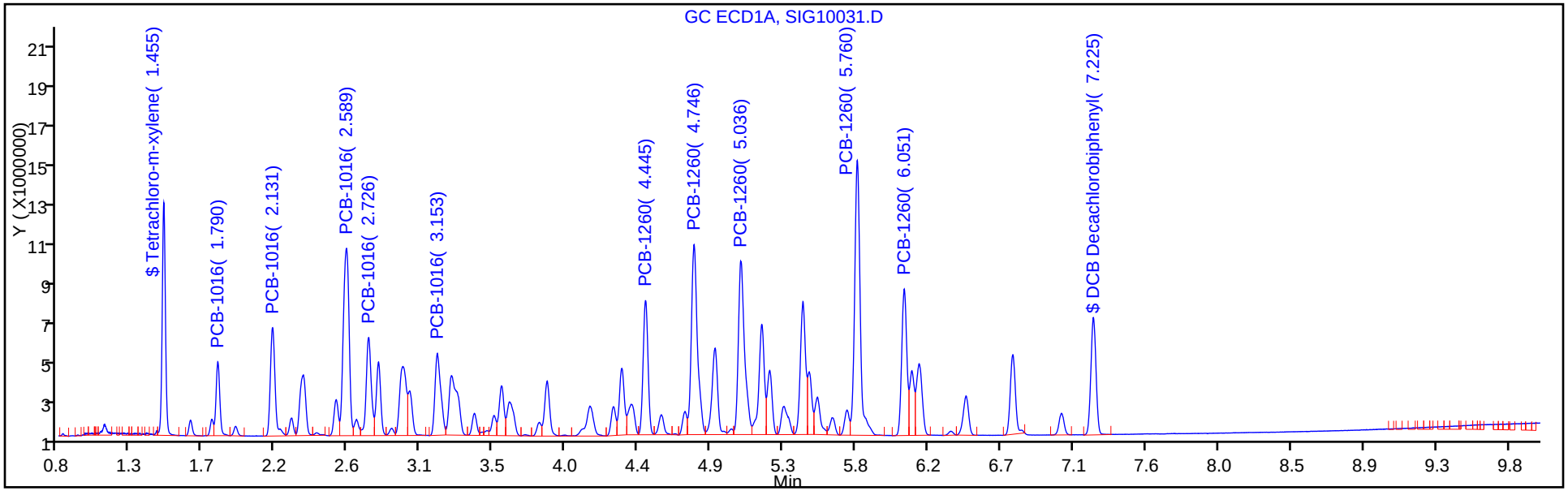
Report Date: 31-Mar-2015 06:14:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

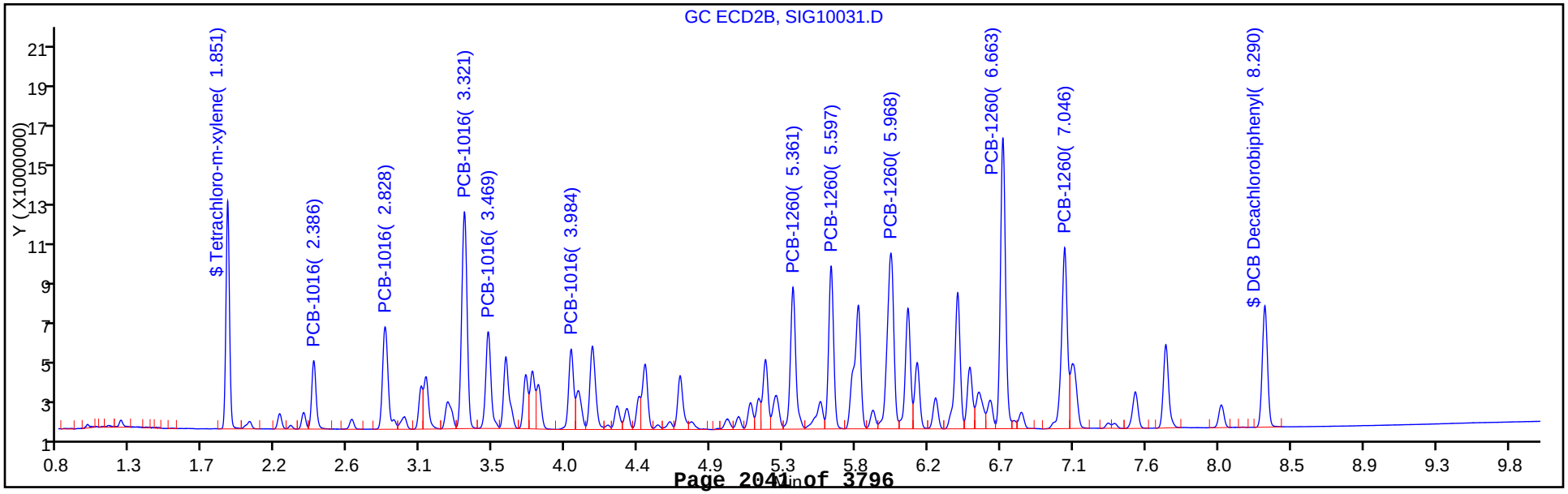
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10031.D

Injection Date:	30-Mar-2015 22:40:02	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD05 1660			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10032.D
Lims ID: STD1 1660
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Mar-2015 22:55:28 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-032
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:40 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.455	1.455	0.000	34779765	0.0500	0.0462	
2	1.851	1.851	0.000	35079083	0.0500	0.0469	
						RPD = 1.42	
6 PCB-1016							
1	1.790	1.790	0.000	11508707	1.00	0.8924	
1	2.130	2.131	-0.001	20644934	1.00	0.8847	
1	2.589	2.589	0.000	44992977	1.00	0.9186	
1	2.726	2.726	0.000	19943730	1.00	0.9102	
1	3.151	3.153	-0.002	19500851	1.00	0.8829	
		Average of Peak Amounts =				0.8978	
2	2.385	2.386	-0.001	12240949	1.00	0.8531	
2	2.828	2.828	0.000	22676227	1.00	0.8284	
2	3.321	3.321	0.000	50598588	1.00	0.9303	
2	3.469	3.469	0.000	21323724	1.00	0.8702	
2	3.982	3.984	-0.002	16777539	1.00	0.8543	
		Average of Peak Amounts =				0.8672	
						RPD = 3.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.445	4.445	0.000	27377235	1.00	0.9111	
1	4.745	4.746	-0.001	49088916	1.00	0.9195	
1	5.037	5.036	0.001	46771566	1.00	0.9350	
1	5.760	5.760	0.000	66457275	1.00	0.9393	
1	6.050	6.051	-0.001	32648835	1.00	0.9311	
		Average of Peak Amounts =				0.9272	
2	5.360	5.361	-0.001	32508172	1.00	0.9022	
2	5.596	5.597	-0.001	34840627	1.00	0.9170	
2	5.969	5.968	0.001	52021997	1.00	0.9447	
2	6.664	6.663	0.001	68328477	1.00	0.9772	
2	7.047	7.046	0.001	49194774	1.00	0.9634	
		Average of Peak Amounts =				0.9409	
						RPD = 1.47	
$ 12 DCB Decachlorobiphenyl							
1	7.226	7.225	0.001	27914164	0.0500	0.0473	
2	8.289	8.290	-0.001	29933367	0.0500	0.0464	
						RPD = 1.86	

Reagents:

SG1660@1.0PPM_00011 Amount Added: 1.00 Units: mL

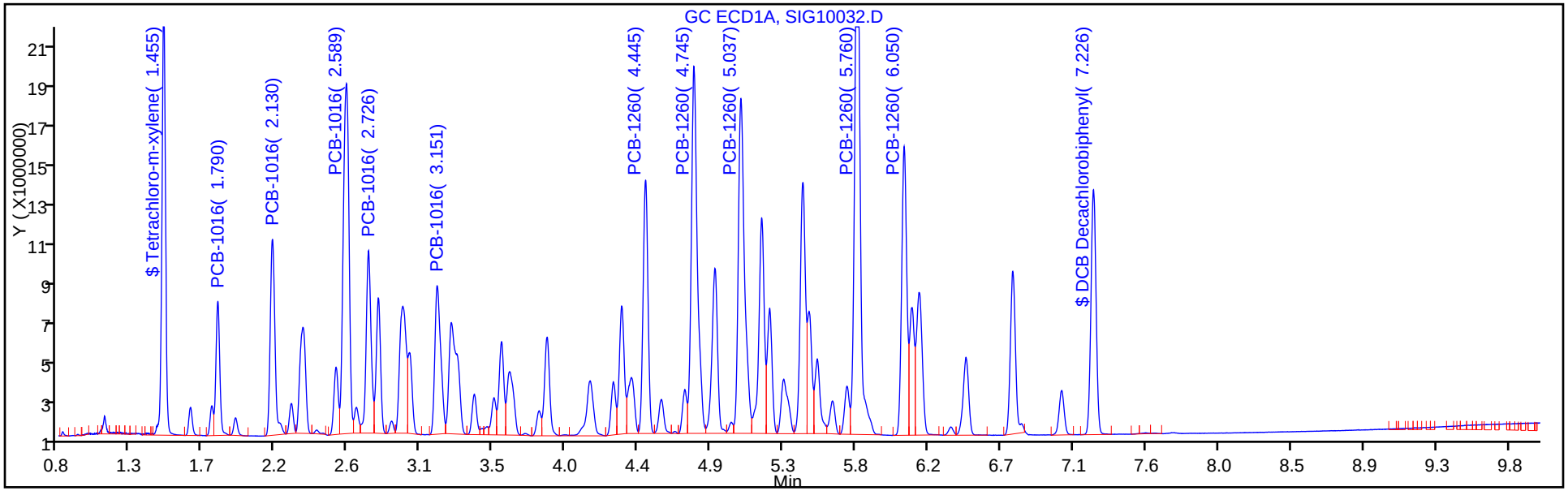
Report Date: 31-Mar-2015 06:14:42 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

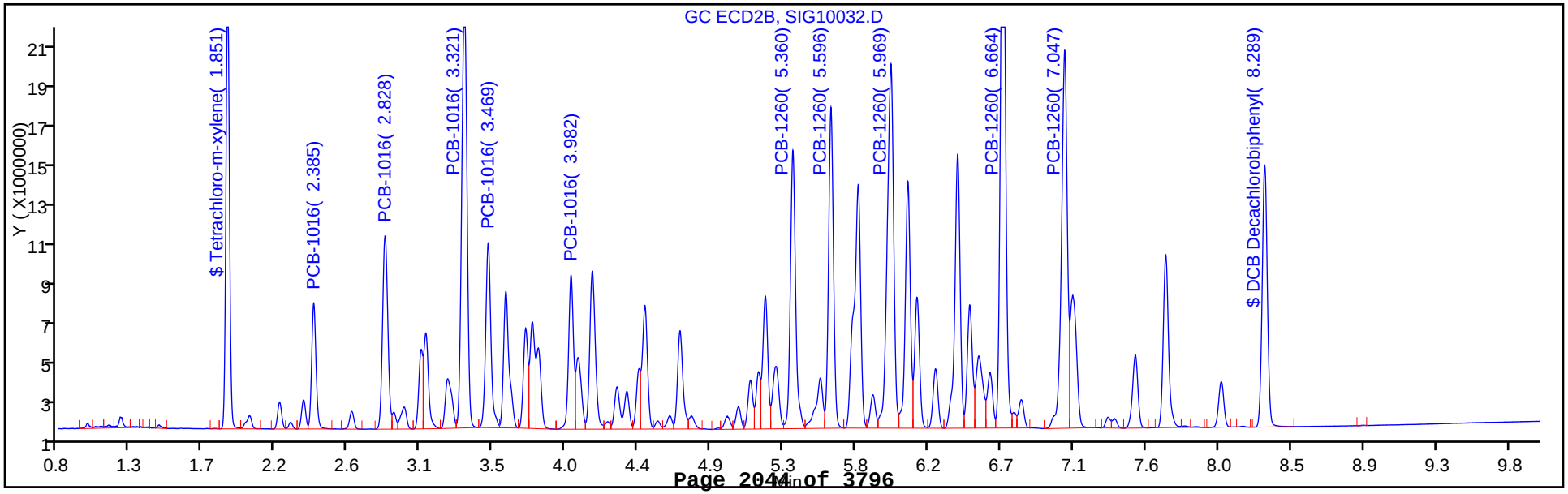
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10032.D

Injection Date:	30-Mar-2015 22:55:28	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD1 1660			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D
Lims ID: STD2 1660
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Mar-2015 23:10:59 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-033
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:42 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:07:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.456	1.455	0.001	61287330	0.1000	0.0815	
2	1.852	1.851	0.001	67510901	0.1000	0.0903	
						RPD = 10.23	
6 PCB-1016							
1	1.791	1.790	0.001	20361498	2.00	1.58	
1	2.130	2.131	-0.001	36700058	2.00	1.57	
1	2.589	2.589	0.000	82876371	2.00	1.69	
1	2.727	2.726	0.001	36679890	2.00	1.67	
1	3.152	3.153	-0.001	35913807	2.00	1.63	
		Average of Peak Amounts =				1.63	
2	2.386	2.386	0.000	22316608	2.00	1.56	
2	2.829	2.828	0.001	41291131	2.00	1.51	
2	3.321	3.321	0.000	95497488	2.00	1.76	
2	3.469	3.469	0.000	39617994	2.00	1.62	
2	3.983	3.984	-0.001	31083720	2.00	1.58	
		Average of Peak Amounts =				1.60	
						RPD = 1.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.445	4.445	0.000	50572248	2.00	1.68	
1	4.747	4.746	0.001	90819730	2.00	1.70	
1	5.037	5.036	0.001	87131141	2.00	1.74	
1	5.761	5.760	0.001	123051535	2.00	1.74	
1	6.052	6.051	0.001	60620021	2.00	1.73	
		Average of Peak Amounts =				1.72	
2	5.361	5.361	0.000	61189588	2.00	1.70	
2	5.597	5.597	0.000	66251011	2.00	1.74	
2	5.969	5.968	0.001	98335317	2.00	1.79	
2	6.664	6.663	0.001	130131056	2.00	1.86	
2	7.047	7.046	0.001	94631471	2.00	1.85	
		Average of Peak Amounts =				1.79	
						RPD = 3.97	
$ 12 DCB Decachlorobiphenyl							
1	7.227	7.225	0.002	50722693	0.1000	0.0859	
2	8.288	8.290	-0.002	54940278	0.1000	0.0851	
						RPD = 0.86	

Reagents:

SG1660@2.0PPM_00012 Amount Added: 1.00 Units: mL

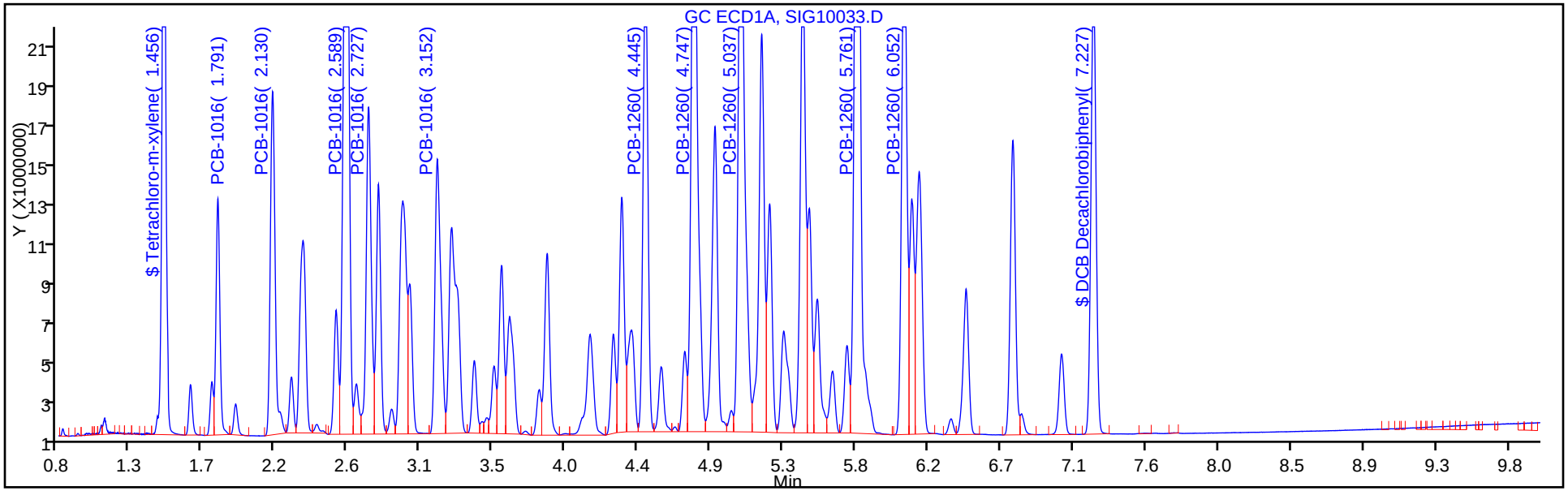
Report Date: 31-Mar-2015 06:14:44 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

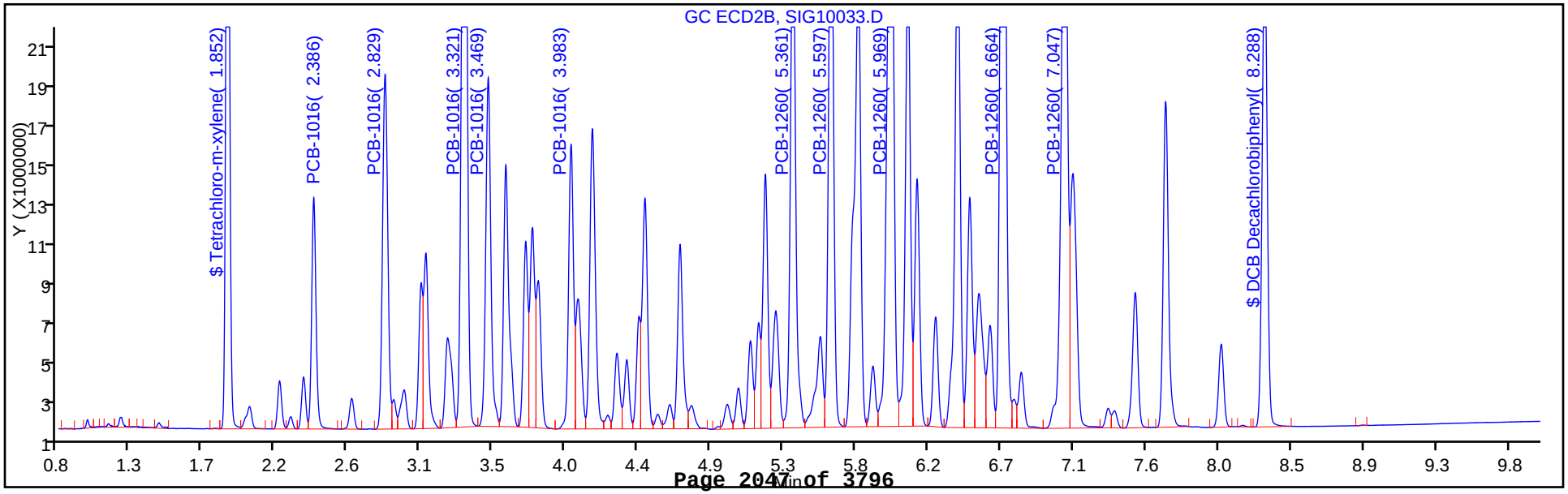
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Injection Date:	30-Mar-2015 23:10:59	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	STD2 1660			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174339/39 Calibration Date: 03/31/2015 00:43

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10039.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	12896664	12545584		0.973	1.00	-2.7	20.0
PCB-1016 Peak 2	Ave	23335016	25965165		1.11	1.00	11.3	20.0
PCB-1016 Peak 3	Ave	48977804	57273996		1.17	1.00	16.9	20.0
PCB-1016 Peak 4	Ave	21912462	25497592		1.16	1.00	16.4	20.0
PCB-1016 Peak 5	Ave	22086947	24072222		1.09	1.00	9.0	20.0
PCB-1260 Peak 1	Ave	30049170	33433406		1.11	1.00	11.3	20.0
PCB-1260 Peak 2	Ave	53389094	59909894		1.12	1.00	12.2	20.0
PCB-1260 Peak 3	Ave	50025603	61816514		1.24	1.00	23.6*	20.0
PCB-1260 Peak 4	Ave	70753328	73276510		1.04	1.00	3.6	20.0
PCB-1260 Peak 5	Ave	35063190	40100161		1.14	1.00	14.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174339/39 Calibration Date: 03/31/2015 00:43

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10039.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.79	1.74	1.84
PCB-1016 Peak 2	2.13	2.08	2.18
PCB-1016 Peak 3	2.59	2.54	2.64
PCB-1016 Peak 4	2.73	2.68	2.78
PCB-1016 Peak 5	3.16	3.10	3.20
PCB-1260 Peak 1	4.45	4.40	4.50
PCB-1260 Peak 2	4.75	4.70	4.80
PCB-1260 Peak 3	5.04	4.99	5.09
PCB-1260 Peak 4	5.77	5.71	5.81
PCB-1260 Peak 5	6.06	6.00	6.10

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10039.D
Lims ID: ICV 1660
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 00:43:41 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-039
Operator ID: Instrument ID: A2HP10
Sublist:

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:42 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:11:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	1.794	1.790	0.004	12545584	1.00	0.9728	
1	2.134	2.131	0.003	25965165	1.00	1.11	
1	2.594	2.589	0.005	57273996	1.00	1.17	
1	2.730	2.726	0.004	25497592	1.00	1.16	
1	3.156	3.153	0.003	24072222	1.00	1.09	
		Average of Peak Amounts =				1.10	
2	2.390	2.386	0.004	14714969	1.00	1.03	
2	2.833	2.828	0.005	30291670	1.00	1.11	
2	3.326	3.321	0.005	65699281	1.00	1.21	
2	3.473	3.469	0.004	27384327	1.00	1.12	
2	3.988	3.984	0.004	21013714	1.00	1.07	
		Average of Peak Amounts =				1.11	
						RPD = 0.35	
10 PCB-1260							
1	4.451	4.445	0.006	33433406	1.00	1.11	
1	4.751	4.746	0.005	59909894	1.00	1.12	
1	5.042	5.036	0.006	61816514	1.00	1.24	
1	5.765	5.760	0.005	73276510	1.00	1.04	
1	6.056	6.051	0.005	40100161	1.00	1.14	
		Average of Peak Amounts =				1.13	
2	5.365	5.361	0.004	41246287	1.00	1.14	
2	5.601	5.597	0.004	44105840	1.00	1.16	
2	5.974	5.968	0.006	70311280	1.00	1.28	
2	6.668	6.663	0.005	77055456	1.00	1.10	
2	7.052	7.046	0.006	57384552	1.00	1.12	
		Average of Peak Amounts =				1.16	
						RPD = 2.76	

Reagents:

SG1660ICV@1.0_00004 Amount Added: 1.00 Units: mL

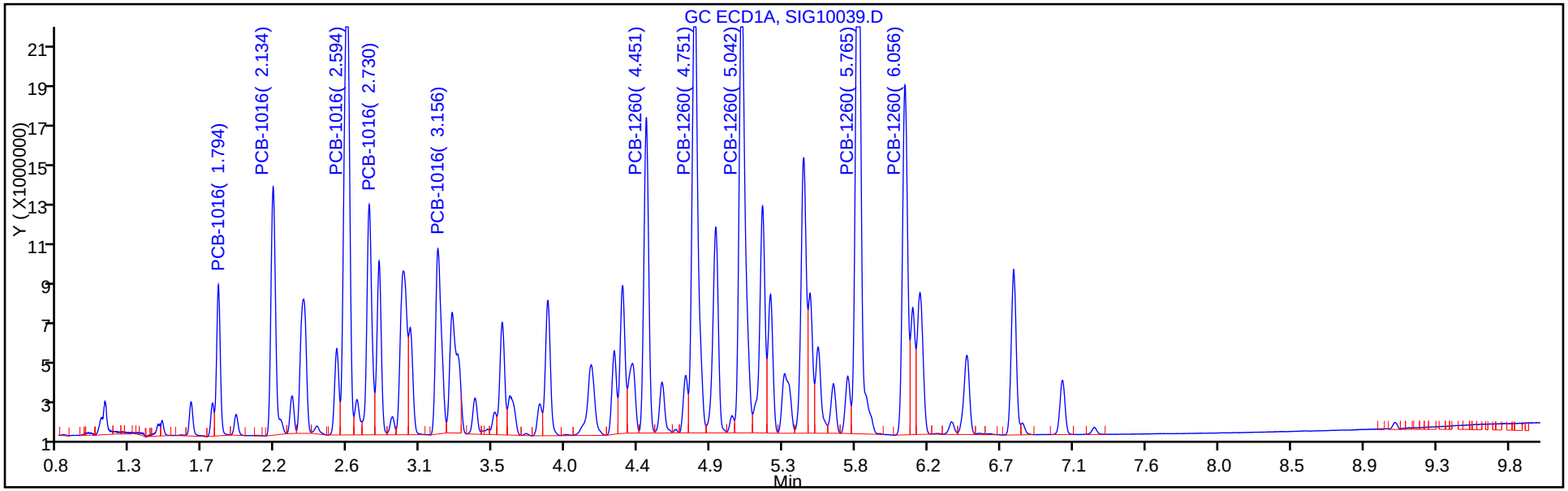
Report Date: 31-Mar-2015 06:15:05 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

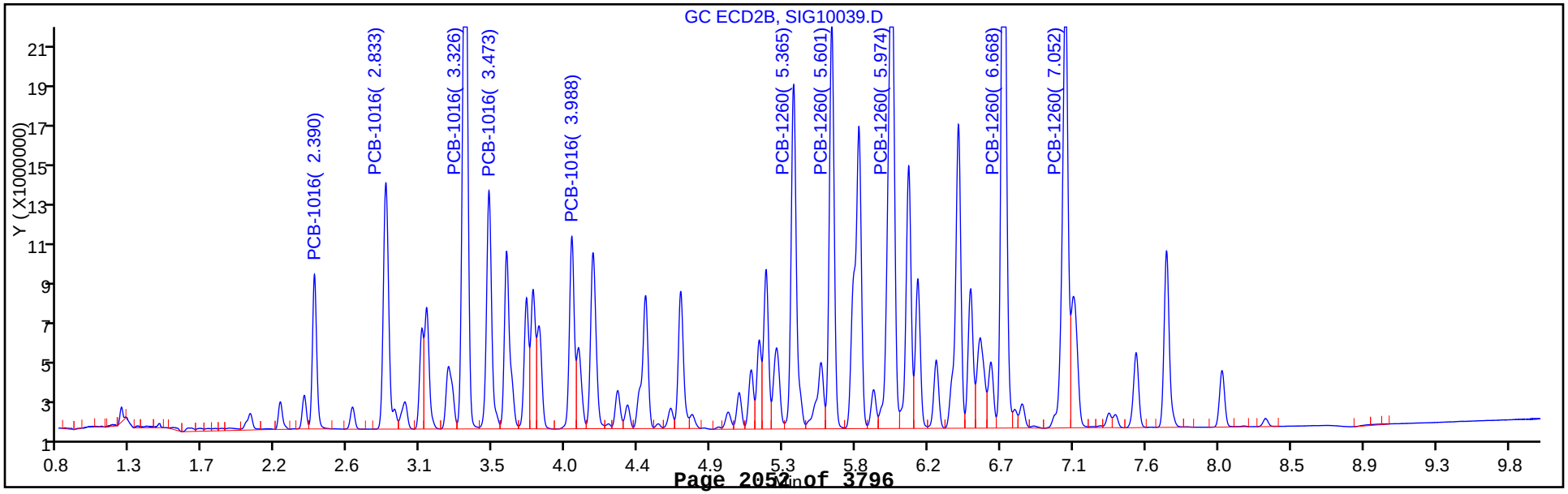
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10039.D

Injection Date:	31-Mar-2015 00:43:41	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	ICV 1660			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174339/39 Calibration Date: 03/31/2015 00:43

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10039.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	14349362	14714969		1.03	1.00	2.5	20.0
PCB-1016 Peak 2	Ave	27372222	30291670		1.11	1.00	10.7	20.0
PCB-1016 Peak 3	Ave	54388976	65699281		1.21	1.00	20.8*	20.0
PCB-1016 Peak 4	Ave	24505568	27384327		1.12	1.00	11.7	20.0
PCB-1016 Peak 5	Ave	19639503	21013714		1.07	1.00	7.0	20.0
PCB-1260 Peak 1	Ave	36031944	41246287		1.14	1.00	14.5	20.0
PCB-1260 Peak 2	Ave	37995049	44105840		1.16	1.00	16.1	20.0
PCB-1260 Peak 3	Ave	55068149	70311280		1.28	1.00	27.7*	20.0
PCB-1260 Peak 4	Ave	69922004	77055456		1.10	1.00	10.2	20.0
PCB-1260 Peak 5	Ave	51063420	57384552		1.12	1.00	12.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-174339/39 Calibration Date: 03/31/2015 00:43

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10039.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.39	2.34	2.44
PCB-1016 Peak 2	2.83	2.78	2.88
PCB-1016 Peak 3	3.33	3.27	3.37
PCB-1016 Peak 4	3.47	3.42	3.52
PCB-1016 Peak 5	3.99	3.93	4.03
PCB-1260 Peak 1	5.37	5.31	5.41
PCB-1260 Peak 2	5.60	5.55	5.65
PCB-1260 Peak 3	5.97	5.92	6.02
PCB-1260 Peak 4	6.67	6.61	6.71
PCB-1260 Peak 5	7.05	7.00	7.10

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10039.D
Lims ID: ICV 1660
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 00:43:41 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042050-039
Operator ID: Instrument ID: A2HP10
Sublist:

Method: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 31-Mar-2015 06:14:42 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK035

First Level Reviewer: hassl Date: 31-Mar-2015 06:11:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	1.794	1.790	0.004	12545584	1.00	0.9728	
1	2.134	2.131	0.003	25965165	1.00	1.11	
1	2.594	2.589	0.005	57273996	1.00	1.17	
1	2.730	2.726	0.004	25497592	1.00	1.16	
1	3.156	3.153	0.003	24072222	1.00	1.09	
		Average of Peak Amounts =				1.10	
2	2.390	2.386	0.004	14714969	1.00	1.03	
2	2.833	2.828	0.005	30291670	1.00	1.11	
2	3.326	3.321	0.005	65699281	1.00	1.21	
2	3.473	3.469	0.004	27384327	1.00	1.12	
2	3.988	3.984	0.004	21013714	1.00	1.07	
		Average of Peak Amounts =				1.11	
						RPD = 0.35	
10 PCB-1260							
1	4.451	4.445	0.006	33433406	1.00	1.11	
1	4.751	4.746	0.005	59909894	1.00	1.12	
1	5.042	5.036	0.006	61816514	1.00	1.24	
1	5.765	5.760	0.005	73276510	1.00	1.04	
1	6.056	6.051	0.005	40100161	1.00	1.14	
		Average of Peak Amounts =				1.13	
2	5.365	5.361	0.004	41246287	1.00	1.14	
2	5.601	5.597	0.004	44105840	1.00	1.16	
2	5.974	5.968	0.006	70311280	1.00	1.28	
2	6.668	6.663	0.005	77055456	1.00	1.10	
2	7.052	7.046	0.006	57384552	1.00	1.12	
		Average of Peak Amounts =				1.16	
						RPD = 2.76	

Reagents:

SG1660ICV@1.0_00004 Amount Added: 1.00 Units: mL

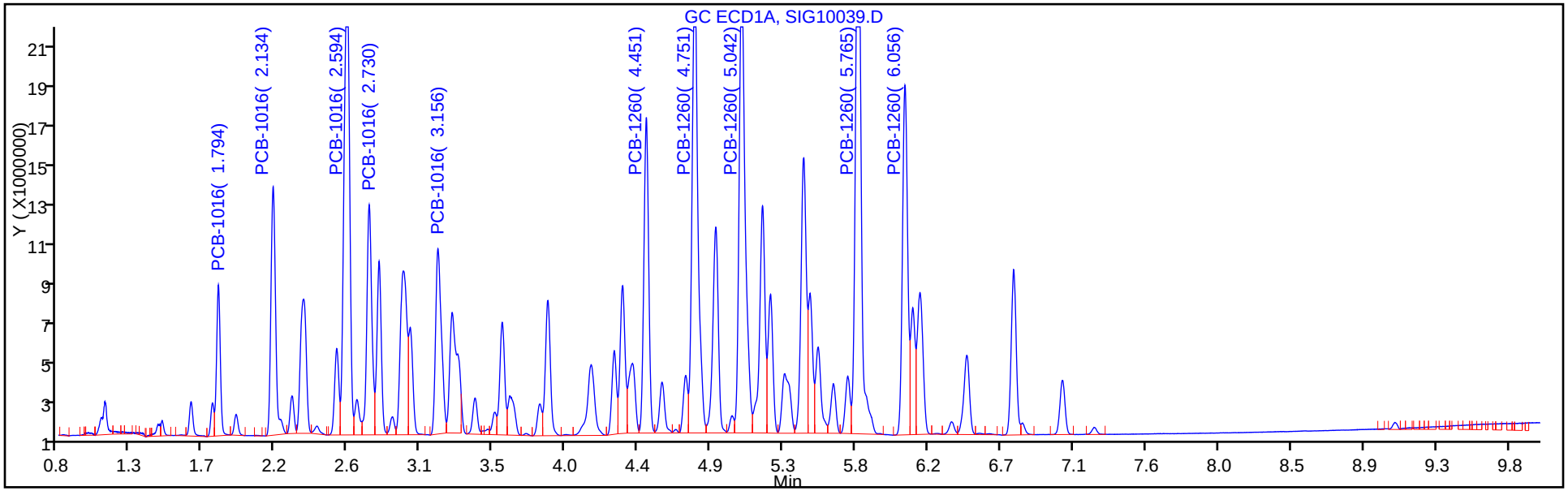
Report Date: 31-Mar-2015 06:15:05 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

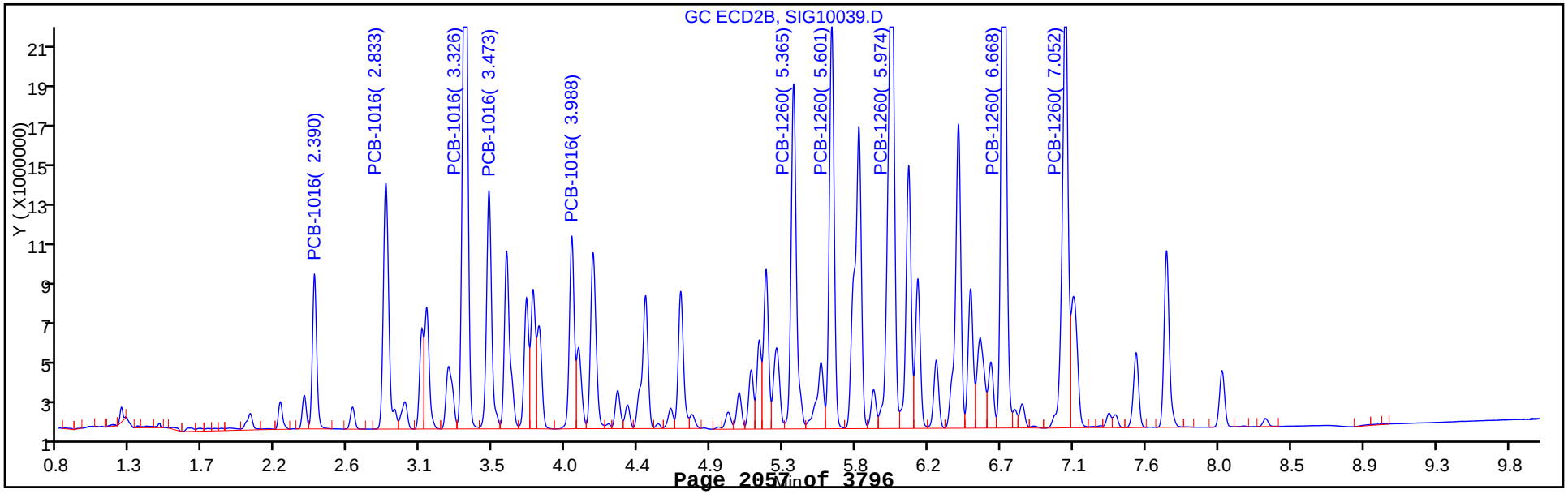
Data File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10039.D

Injection Date:	31-Mar-2015 00:43:41	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	ICV 1660			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/3 Calibration Date: 04/14/2015 13:19

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10026.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	12896664	11548224		0.448	0.500	-10.5	20.0
PCB-1016 Peak 2	Ave	23335016	20913240		0.448	0.500	-10.4	20.0
PCB-1016 Peak 3	Ave	48977804	43712784		0.446	0.500	-10.7	20.0
PCB-1016 Peak 4	Ave	21912462	18968392		0.433	0.500	-13.4	20.0
PCB-1016 Peak 5	Ave	22086947	19398788		0.439	0.500	-12.2	20.0
PCB-1260 Peak 1	Ave	30049170	26778234		0.446	0.500	-10.9	20.0
PCB-1260 Peak 2	Ave	53389094	48694786		0.456	0.500	-8.8	20.0
PCB-1260 Peak 3	Ave	50025603	47037192		0.470	0.500	-6.0	20.0
PCB-1260 Peak 4	Ave	70753328	66265322		0.468	0.500	-6.3	20.0
PCB-1260 Peak 5	Ave	35063190	32159370		0.459	0.500	-8.3	20.0
Tetrachloro-m-xylene	Ave	752222197	616799720		0.0205	0.0250	-18.0	20.0
DCB Decachlorobiphenyl	Ave	590645418	558134840		0.0236	0.0250	-5.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/3 Calibration Date: 04/14/2015 13:19

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10026.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.77	1.72	1.82
PCB-1016 Peak 2	2.11	2.06	2.16
PCB-1016 Peak 3	2.57	2.52	2.62
PCB-1016 Peak 4	2.70	2.65	2.75
PCB-1016 Peak 5	3.13	3.08	3.18
PCB-1260 Peak 1	4.42	4.37	4.47
PCB-1260 Peak 2	4.72	4.67	4.77
PCB-1260 Peak 3	5.01	4.96	5.06
PCB-1260 Peak 4	5.74	5.69	5.79
PCB-1260 Peak 5	6.03	5.98	6.08
Tetrachloro-m-xylene	1.44	1.39	1.49
DCB Decachlorobiphenyl	7.20	7.15	7.25

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10026.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCVRT
Inject. Date: 14-Apr-2015 13:19:14 ALS Bottle#: 26 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-003
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:30:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.435	1.435	0.000	15419993	0.0250	0.0205	
2	1.832	1.832	0.000	16362068	0.0250	0.0219	
						RPD = 6.49	
6 PCB-1016							
1	1.769	1.769	0.000	5774112	0.5000	0.4477	
1	2.108	2.108	0.000	10456620	0.5000	0.4481	
1	2.566	2.566	0.000	21856392	0.5000	0.4463	
1	2.702	2.702	0.000	9484196	0.5000	0.4328	
1	3.128	3.128	0.000	9699394	0.5000	0.4391	
		Average of Peak Amounts =				0.4428	
2	2.365	2.365	0.000	6109192	0.5000	0.4257	
2	2.809	2.809	0.000	11215890	0.5000	0.4098	
2	3.302	3.302	0.000	24100240	0.5000	0.4431	
2	3.449	3.449	0.000	10649467	0.5000	0.4346	
2	3.965	3.965	0.000	8275381	0.5000	0.4214	
		Average of Peak Amounts =				0.4269	
						RPD = 3.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.421	4.421	0.000	13389117	0.5000	0.4456	
1	4.722	4.722	0.000	24347393	0.5000	0.4560	
1	5.013	5.013	0.000	23518596	0.5000	0.4701	
1	5.737	5.737	0.000	33132661	0.5000	0.4683	
1	6.030	6.030	0.000	16079685	0.5000	0.4586	
		Average of Peak Amounts =				0.4597	
2	5.343	5.343	0.000	15403169	0.5000	0.4275	
2	5.580	5.580	0.000	17245888	0.5000	0.4539	
2	5.953	5.953	0.000	25408933	0.5000	0.4614	
2	6.648	6.648	0.000	33612524	0.5000	0.4807	
2	7.030	7.030	0.000	24561755	0.5000	0.4810	
		Average of Peak Amounts =				0.4609	
						RPD = 0.26	
$ 12 DCB Decachlorobiphenyl							
1	7.201	7.201	0.000	13953371	0.0250	0.0236	
2	8.275	8.275	0.000	14744039	0.0250	0.0228	
						RPD = 3.33	

Reagents:

SG1660@0.5PPM_00044 Amount Added: 1.00 Units: mL

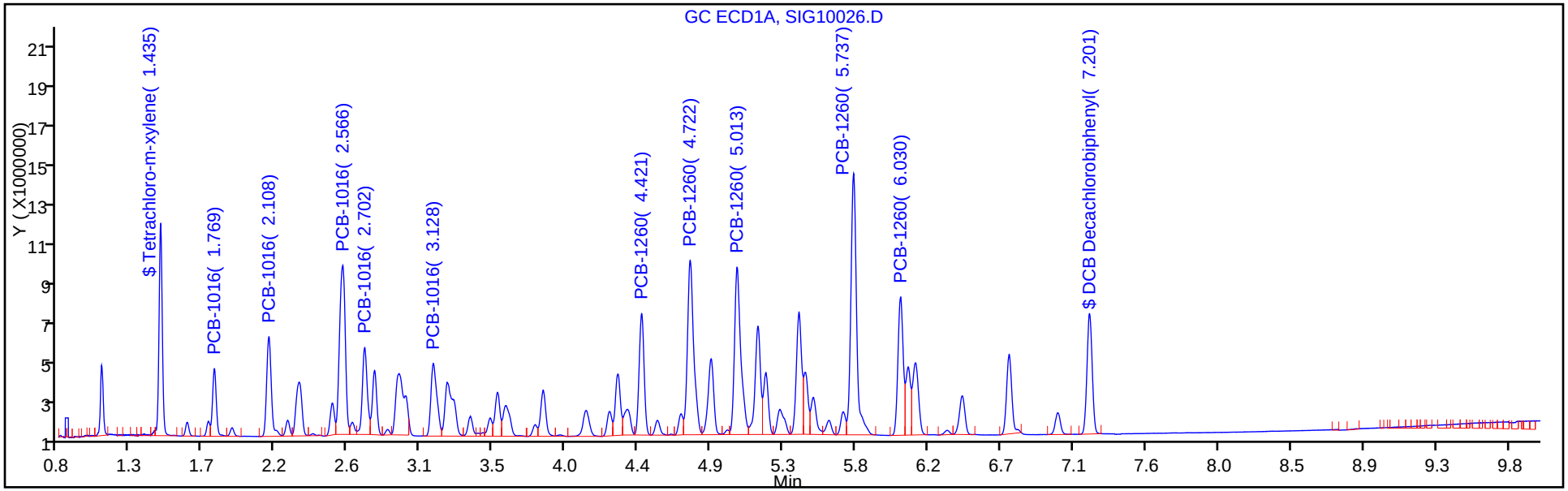
Report Date: 15-Apr-2015 10:01:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

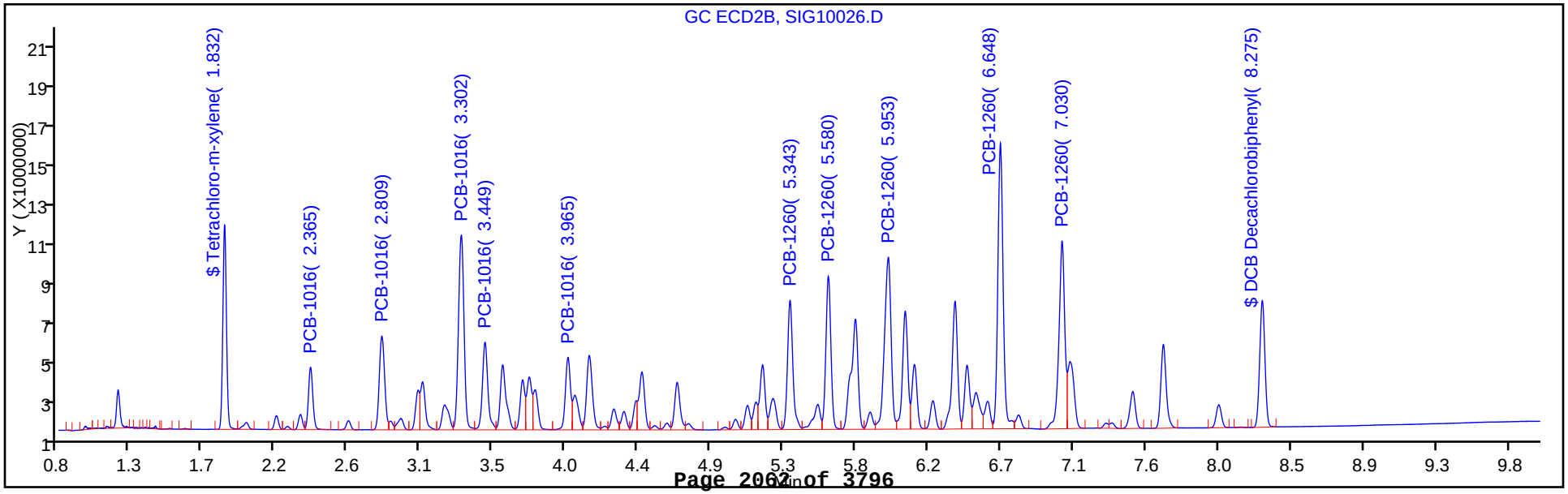
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10026.D

Injection Date:	14-Apr-2015 13:19:14	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/3 Calibration Date: 04/14/2015 13:19

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10026.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	14349362	12218384		0.426	0.500	-14.9	20.0
PCB-1016 Peak 2	Ave	27372222	22431780		0.410	0.500	-18.0	20.0
PCB-1016 Peak 3	Ave	54388976	48200480		0.443	0.500	-11.4	20.0
PCB-1016 Peak 4	Ave	24505568	21298934		0.435	0.500	-13.1	20.0
PCB-1016 Peak 5	Ave	19639503	16550762		0.421	0.500	-15.7	20.0
PCB-1260 Peak 1	Ave	36031944	30806338		0.427	0.500	-14.5	20.0
PCB-1260 Peak 2	Ave	37995049	34491776		0.454	0.500	-9.2	20.0
PCB-1260 Peak 3	Ave	55068149	50817866		0.461	0.500	-7.7	20.0
PCB-1260 Peak 4	Ave	69922004	67225048		0.481	0.500	-3.9	20.0
PCB-1260 Peak 5	Ave	51063420	49123510		0.481	0.500	-3.8	20.0
Tetrachloro-m-xylene	Ave	747974818	654482720		0.0219	0.0250	-12.5	20.0
DCB Decachlorobiphenyl	Ave	645253453	589761560		0.0228	0.0250	-8.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/3 Calibration Date: 04/14/2015 13:19

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10026.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.37	2.32	2.42
PCB-1016 Peak 2	2.81	2.76	2.86
PCB-1016 Peak 3	3.30	3.25	3.35
PCB-1016 Peak 4	3.45	3.40	3.50
PCB-1016 Peak 5	3.97	3.92	4.02
PCB-1260 Peak 1	5.34	5.29	5.39
PCB-1260 Peak 2	5.58	5.53	5.63
PCB-1260 Peak 3	5.95	5.90	6.00
PCB-1260 Peak 4	6.65	6.60	6.70
PCB-1260 Peak 5	7.03	6.98	7.08
Tetrachloro-m-xylene	1.83	1.78	1.88
DCB Decachlorobiphenyl	8.28	8.23	8.33

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10026.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCVRT
Inject. Date: 14-Apr-2015 13:19:14 ALS Bottle#: 26 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-003
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:30:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.435	1.435	0.000	15419993	0.0250	0.0205	
2	1.832	1.832	0.000	16362068	0.0250	0.0219	
						RPD = 6.49	
6 PCB-1016							
1	1.769	1.769	0.000	5774112	0.5000	0.4477	
1	2.108	2.108	0.000	10456620	0.5000	0.4481	
1	2.566	2.566	0.000	21856392	0.5000	0.4463	
1	2.702	2.702	0.000	9484196	0.5000	0.4328	
1	3.128	3.128	0.000	9699394	0.5000	0.4391	
		Average of Peak Amounts =				0.4428	
2	2.365	2.365	0.000	6109192	0.5000	0.4257	
2	2.809	2.809	0.000	11215890	0.5000	0.4098	
2	3.302	3.302	0.000	24100240	0.5000	0.4431	
2	3.449	3.449	0.000	10649467	0.5000	0.4346	
2	3.965	3.965	0.000	8275381	0.5000	0.4214	
		Average of Peak Amounts =				0.4269	
						RPD = 3.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.421	4.421	0.000	13389117	0.5000	0.4456	
1	4.722	4.722	0.000	24347393	0.5000	0.4560	
1	5.013	5.013	0.000	23518596	0.5000	0.4701	
1	5.737	5.737	0.000	33132661	0.5000	0.4683	
1	6.030	6.030	0.000	16079685	0.5000	0.4586	
		Average of Peak Amounts =				0.4597	
2	5.343	5.343	0.000	15403169	0.5000	0.4275	
2	5.580	5.580	0.000	17245888	0.5000	0.4539	
2	5.953	5.953	0.000	25408933	0.5000	0.4614	
2	6.648	6.648	0.000	33612524	0.5000	0.4807	
2	7.030	7.030	0.000	24561755	0.5000	0.4810	
		Average of Peak Amounts =				0.4609	
						RPD = 0.26	
$ 12 DCB Decachlorobiphenyl							
1	7.201	7.201	0.000	13953371	0.0250	0.0236	
2	8.275	8.275	0.000	14744039	0.0250	0.0228	
						RPD = 3.33	

Reagents:

SG1660@0.5PPM_00044 Amount Added: 1.00 Units: mL

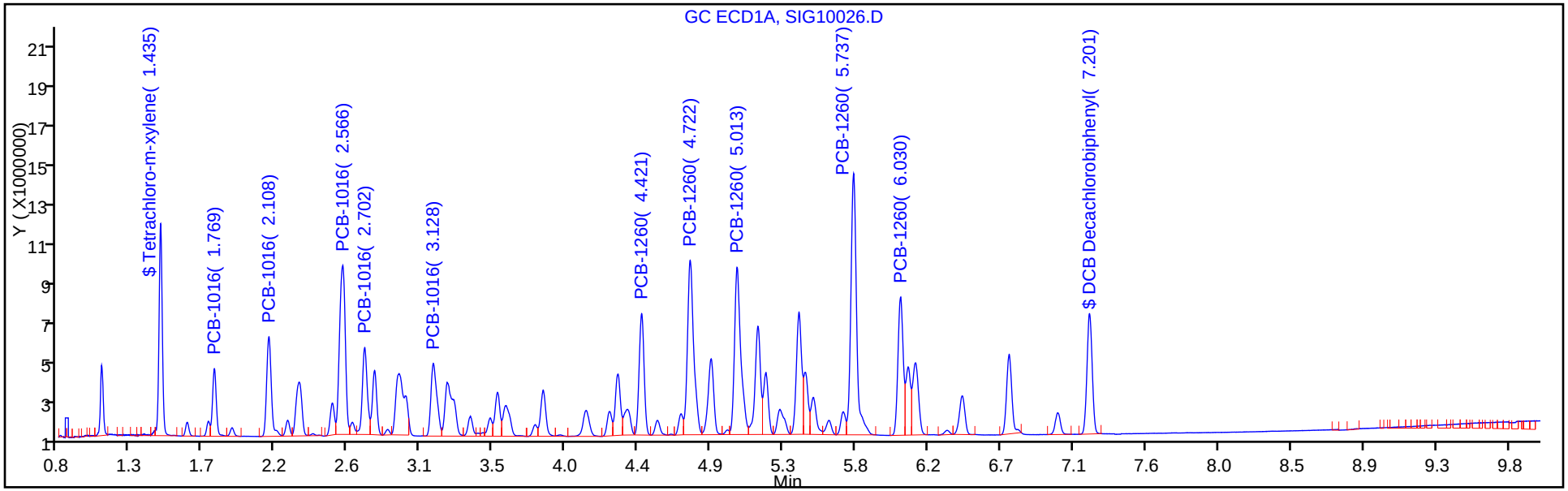
Report Date: 15-Apr-2015 10:01:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

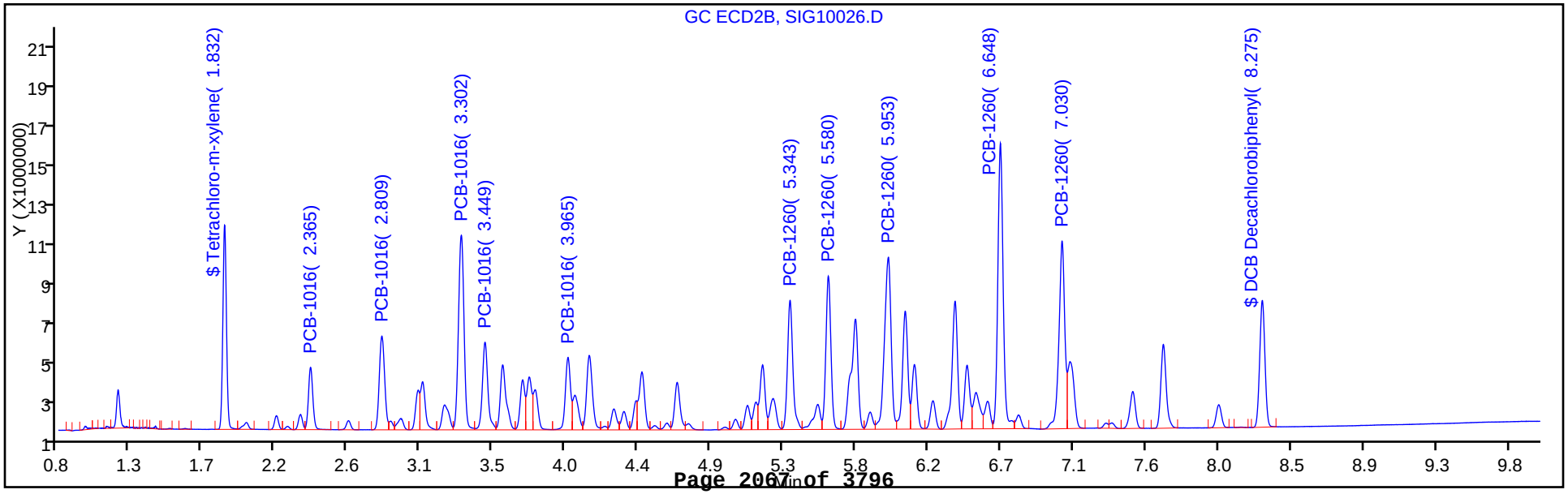
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10026.D

Injection Date:	14-Apr-2015 13:19:14	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/9 Calibration Date: 04/14/2015 14:52

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10032.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	12896664	11267004		0.437	0.500	-12.6	20.0
PCB-1016 Peak 2	Ave	23335016	20488864		0.439	0.500	-12.2	20.0
PCB-1016 Peak 3	Ave	48977804	44252002		0.452	0.500	-9.6	20.0
PCB-1016 Peak 4	Ave	21912462	19322144		0.441	0.500	-11.8	20.0
PCB-1016 Peak 5	Ave	22086947	18961840		0.429	0.500	-14.1	20.0
PCB-1260 Peak 1	Ave	30049170	26964646		0.449	0.500	-10.3	20.0
PCB-1260 Peak 2	Ave	53389094	48901084		0.458	0.500	-8.4	20.0
PCB-1260 Peak 3	Ave	50025603	48108550		0.481	0.500	-3.8	20.0
PCB-1260 Peak 4	Ave	70753328	67611572		0.478	0.500	-4.4	20.0
PCB-1260 Peak 5	Ave	35063190	32848566		0.468	0.500	-6.3	20.0
Tetrachloro-m-xylene	Ave	752222197	624122040		0.0207	0.0250	-17.0	20.0
DCB Decachlorobiphenyl	Ave	590645418	560758080		0.0237	0.0250	-5.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/9 Calibration Date: 04/14/2015 14:52

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10032.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.77	1.72	1.82
PCB-1016 Peak 2	2.11	2.06	2.16
PCB-1016 Peak 3	2.57	2.52	2.62
PCB-1016 Peak 4	2.70	2.65	2.75
PCB-1016 Peak 5	3.13	3.08	3.18
PCB-1260 Peak 1	4.42	4.37	4.47
PCB-1260 Peak 2	4.72	4.67	4.77
PCB-1260 Peak 3	5.01	4.96	5.06
PCB-1260 Peak 4	5.74	5.69	5.79
PCB-1260 Peak 5	6.03	5.98	6.08
Tetrachloro-m-xylene	1.44	1.39	1.49
DCB Decachlorobiphenyl	7.20	7.15	7.25

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10032.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 14-Apr-2015 14:52:19 ALS Bottle#: 32 Worklist Smp#: 9
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-009
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:02:06 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.435	1.435	0.000	15603051	0.0250	0.0207	
2	1.832	1.832	0.000	16497672	0.0250	0.0221	
						RPD = 6.14	
6 PCB-1016							
1	1.770	1.770	0.000	5633502	0.5000	0.4368	
1	2.107	2.107	0.000	10244432	0.5000	0.4390	
1	2.567	2.567	0.000	22126001	0.5000	0.4518	
1	2.702	2.702	0.000	9661072	0.5000	0.4409	
1	3.129	3.129	0.000	9480920	0.5000	0.4293	
		Average of Peak Amounts =				0.4395	
2	2.367	2.367	0.000	6169349	0.5000	0.4299	
2	2.809	2.809	0.000	11332173	0.5000	0.4140	
2	3.302	3.302	0.000	24380231	0.5000	0.4483	
2	3.449	3.449	0.000	10751192	0.5000	0.4387	
2	3.964	3.964	0.000	8322026	0.5000	0.4237	
		Average of Peak Amounts =				0.4309	
						RPD = 1.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.422	4.422	0.000	13482323	0.5000	0.4487	
1	4.722	4.722	0.000	24450542	0.5000	0.4580	
1	5.013	5.013	0.000	24054275	0.5000	0.4808	
1	5.736	5.736	0.000	33805786	0.5000	0.4778	
1	6.026	6.026	0.000	16424283	0.5000	0.4684	
		Average of Peak Amounts =				0.4667	
2	5.343	5.343	0.000	15699753	0.5000	0.4357	
2	5.580	5.580	0.000	17496479	0.5000	0.4605	
2	5.952	5.952	0.000	26078257	0.5000	0.4736	
2	6.648	6.648	0.000	34060707	0.5000	0.4871	
2	7.031	7.031	0.000	25227817	0.5000	0.4940	
		Average of Peak Amounts =				0.4702	
						RPD = 0.74	
$ 12 DCB Decachlorobiphenyl							
1	7.202	7.202	0.000	14018952	0.0250	0.0237	
2	8.274	8.274	0.000	15087319	0.0250	0.0234	
						RPD = 1.50	

Reagents:

SG1660@0.5PPM_00044 Amount Added: 1.00 Units: mL

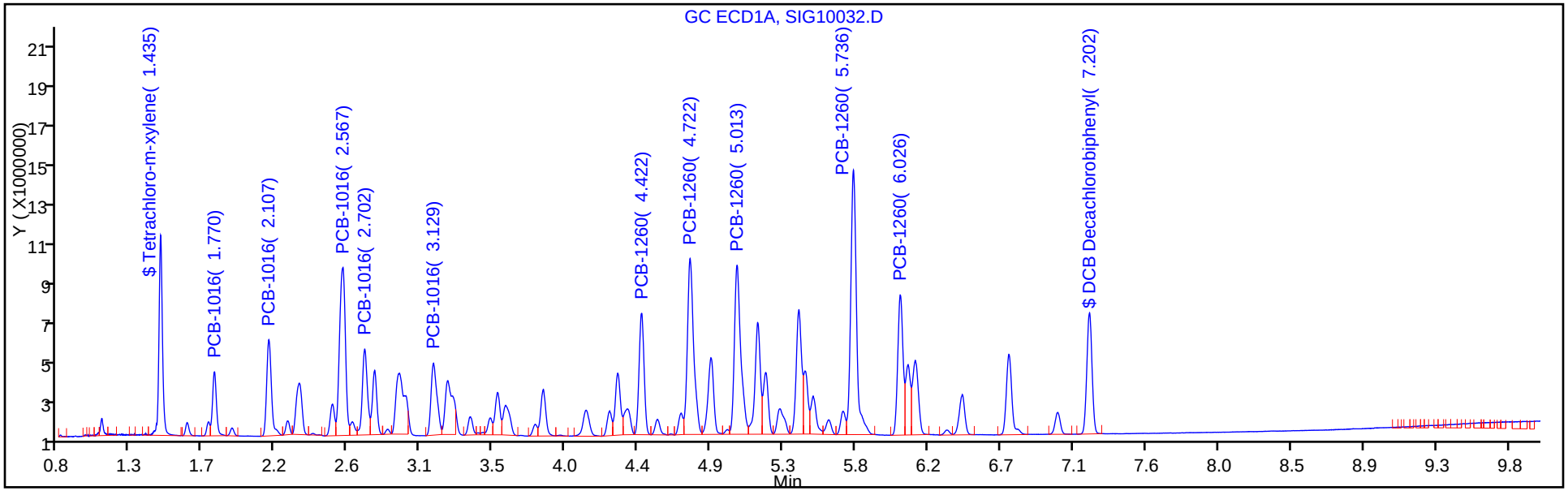
Report Date: 15-Apr-2015 10:02:08 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

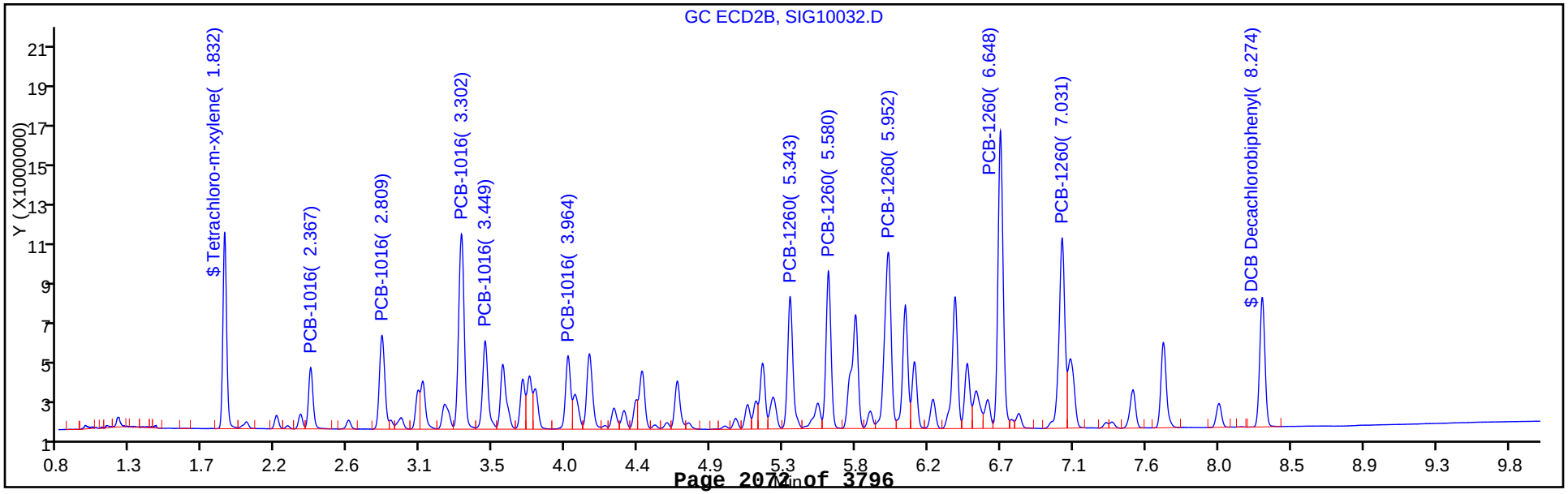
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10032.D

Injection Date:	14-Apr-2015 14:52:19	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/9 Calibration Date: 04/14/2015 14:52

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10032.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	14349362	12338698		0.430	0.500	-14.0	20.0
PCB-1016 Peak 2	Ave	27372222	22664346		0.414	0.500	-17.2	20.0
PCB-1016 Peak 3	Ave	54388976	48760462		0.448	0.500	-10.3	20.0
PCB-1016 Peak 4	Ave	24505568	21502384		0.439	0.500	-12.3	20.0
PCB-1016 Peak 5	Ave	19639503	16644052		0.424	0.500	-15.3	20.0
PCB-1260 Peak 1	Ave	36031944	31399506		0.436	0.500	-12.9	20.0
PCB-1260 Peak 2	Ave	37995049	34992958		0.460	0.500	-7.9	20.0
PCB-1260 Peak 3	Ave	55068149	52156514		0.474	0.500	-5.3	20.0
PCB-1260 Peak 4	Ave	69922004	68121414		0.487	0.500	-2.6	20.0
PCB-1260 Peak 5	Ave	51063420	50455634		0.494	0.500	-1.2	20.0
Tetrachloro-m-xylene	Ave	747974818	659906880		0.0221	0.0250	-11.8	20.0
DCB Decachlorobiphenyl	Ave	645253453	603492760		0.0234	0.0250	-6.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-176376/9 Calibration Date: 04/14/2015 14:52

Instrument ID: A2HP10 Calib Start Date: 03/30/2015 21:53

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/30/2015 23:10

Lab File ID: SIG10032.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.37	2.32	2.42
PCB-1016 Peak 2	2.81	2.76	2.86
PCB-1016 Peak 3	3.30	3.25	3.35
PCB-1016 Peak 4	3.45	3.40	3.50
PCB-1016 Peak 5	3.96	3.91	4.01
PCB-1260 Peak 1	5.34	5.29	5.39
PCB-1260 Peak 2	5.58	5.53	5.63
PCB-1260 Peak 3	5.95	5.90	6.00
PCB-1260 Peak 4	6.65	6.60	6.70
PCB-1260 Peak 5	7.03	6.98	7.08
Tetrachloro-m-xylene	1.83	1.78	1.88
DCB Decachlorobiphenyl	8.27	8.22	8.32

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10032.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 14-Apr-2015 14:52:19 ALS Bottle#: 32 Worklist Smp#: 9
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-009
Operator ID: Instrument ID: A2HP10
Sublist: chrom-PCB10*sub5

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:02:06 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.435	1.435	0.000	15603051	0.0250	0.0207	
2	1.832	1.832	0.000	16497672	0.0250	0.0221	
						RPD = 6.14	
6 PCB-1016							
1	1.770	1.770	0.000	5633502	0.5000	0.4368	
1	2.107	2.107	0.000	10244432	0.5000	0.4390	
1	2.567	2.567	0.000	22126001	0.5000	0.4518	
1	2.702	2.702	0.000	9661072	0.5000	0.4409	
1	3.129	3.129	0.000	9480920	0.5000	0.4293	
		Average of Peak Amounts =				0.4395	
2	2.367	2.367	0.000	6169349	0.5000	0.4299	
2	2.809	2.809	0.000	11332173	0.5000	0.4140	
2	3.302	3.302	0.000	24380231	0.5000	0.4483	
2	3.449	3.449	0.000	10751192	0.5000	0.4387	
2	3.964	3.964	0.000	8322026	0.5000	0.4237	
		Average of Peak Amounts =				0.4309	
						RPD = 1.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.422	4.422	0.000	13482323	0.5000	0.4487	
1	4.722	4.722	0.000	24450542	0.5000	0.4580	
1	5.013	5.013	0.000	24054275	0.5000	0.4808	
1	5.736	5.736	0.000	33805786	0.5000	0.4778	
1	6.026	6.026	0.000	16424283	0.5000	0.4684	
		Average of Peak Amounts =				0.4667	
2	5.343	5.343	0.000	15699753	0.5000	0.4357	
2	5.580	5.580	0.000	17496479	0.5000	0.4605	
2	5.952	5.952	0.000	26078257	0.5000	0.4736	
2	6.648	6.648	0.000	34060707	0.5000	0.4871	
2	7.031	7.031	0.000	25227817	0.5000	0.4940	
		Average of Peak Amounts =				0.4702	
						RPD = 0.74	
$ 12 DCB Decachlorobiphenyl							
1	7.202	7.202	0.000	14018952	0.0250	0.0237	
2	8.274	8.274	0.000	15087319	0.0250	0.0234	
						RPD = 1.50	

Reagents:

SG1660@0.5PPM_00044 Amount Added: 1.00 Units: mL

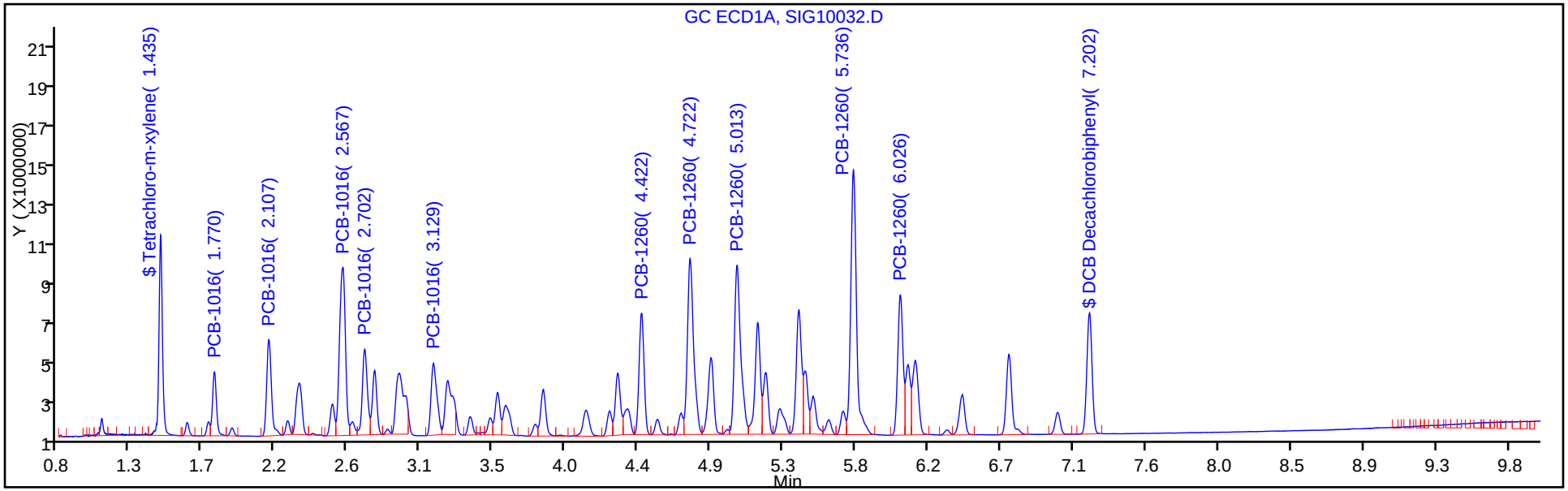
Report Date: 15-Apr-2015 10:02:09 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

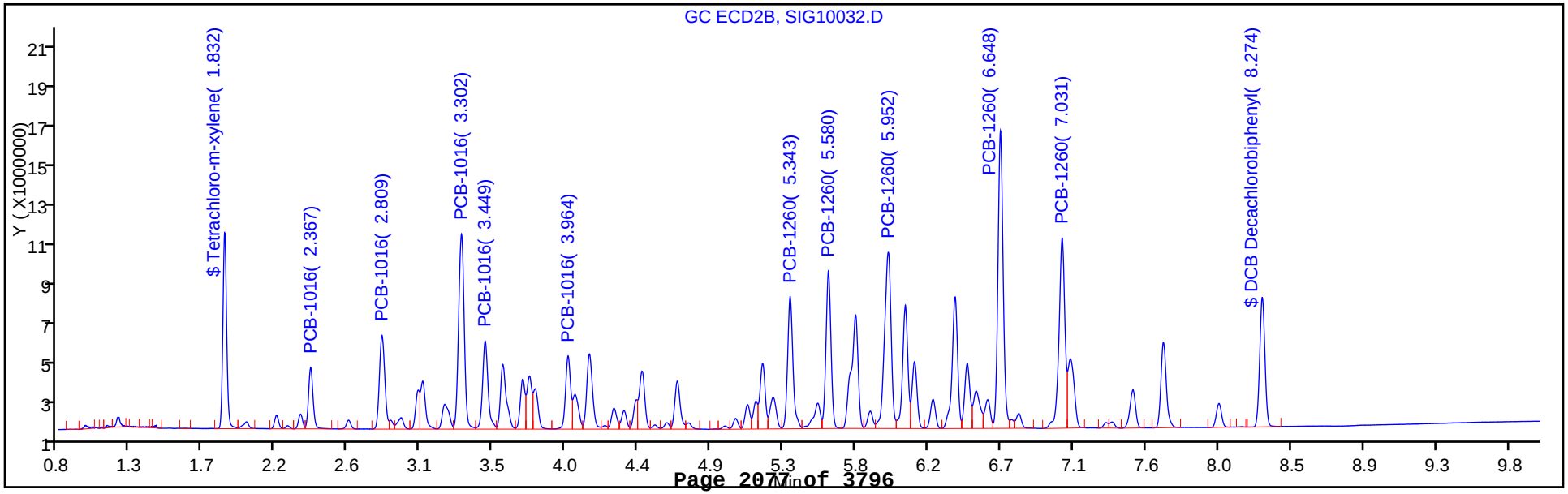
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10032.D

Injection Date:	14-Apr-2015 14:52:19	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176083/3-A

Matrix: Water | Lab File ID: SIG10030.D

Analysis Method: 8082 | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/13/2015 06:11

Sample wt/vol: 1000(mL) | Date Analyzed: 04/14/2015 14:21

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		40-140
2051-24-3	DCB Decachlorobiphenyl	90		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10030.D
Lims ID: MB 240-176083/3-A
Client ID:
Sample Type: MB
Inject. Date: 14-Apr-2015 14:21:16 ALS Bottle#: 30 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-007
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:32:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
$ 2 Tetrachloro-m-xylene							
1	1.437	1.435	0.002	22383081	0.0400	0.0298	
2	1.834	1.832	0.002	21081171	0.0400	0.0282	
						RPD = 5.42	
3 PCB-1221							
1		1.600				ND	
1		1.732					
1		1.768					
2		2.154					
2		2.303					
2		2.367					
4 PCB-1232							
1		1.768				ND	
1		2.106					
1		2.563					
1		2.700					
1		3.128					
2		2.366					
2		2.808					
2		3.301					
2		3.448					
2		4.096					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1		1.769				ND	
1		2.108					
1		2.566					
1		2.702					
1		3.128					
2		2.365					
2		2.809					
2		3.302					
2		3.449					
2		3.965					
5 PCB-1242							
1		1.769				ND	
1		2.107					
1		2.565					
1		2.701					
1		3.128					
2		2.367					
2		2.810					
2		3.302					
2		3.449					
2		4.097					
7 PCB-1248							
1		2.105				ND	
1		2.563					
1		3.126					
1		3.757					
1		4.220					
2		2.808					
2		3.300					
2		4.096					
2		4.428					
2		5.129					
8 PCB-1254							
1		3.526				ND	
1		3.809					
1		4.219					
1		4.519					
1		5.013					
2		4.422					
2		4.641					
2		5.129					
2		5.381					
2		5.954					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1		4.418				ND	
1		4.721					
1		5.140					
1		5.734					
1		6.073					
2		5.579					
2		6.056					
2		6.366					
2		6.648					
2		7.028					
10 PCB-1260							
1		4.421				ND	
1		4.722					
1		5.013					
1		5.737					
1		6.030					
2		5.343					
2		5.580					
2		5.953					
2		6.648					
2		7.030					
11 PCB-1268							
1		6.073				ND	
1		6.112					
1		6.316					
1		6.701					
1		7.003					
2		7.026					
2		7.076					
2		7.341					
2		7.660					
2		8.003					
$ 12 DCB Decachlorobiphenyl							
1	7.200	7.201	-0.001	21148752	0.0400	0.0358	
2	8.275	8.275	0.000	22658305	0.0400	0.0351	
						RPD = 1.95	

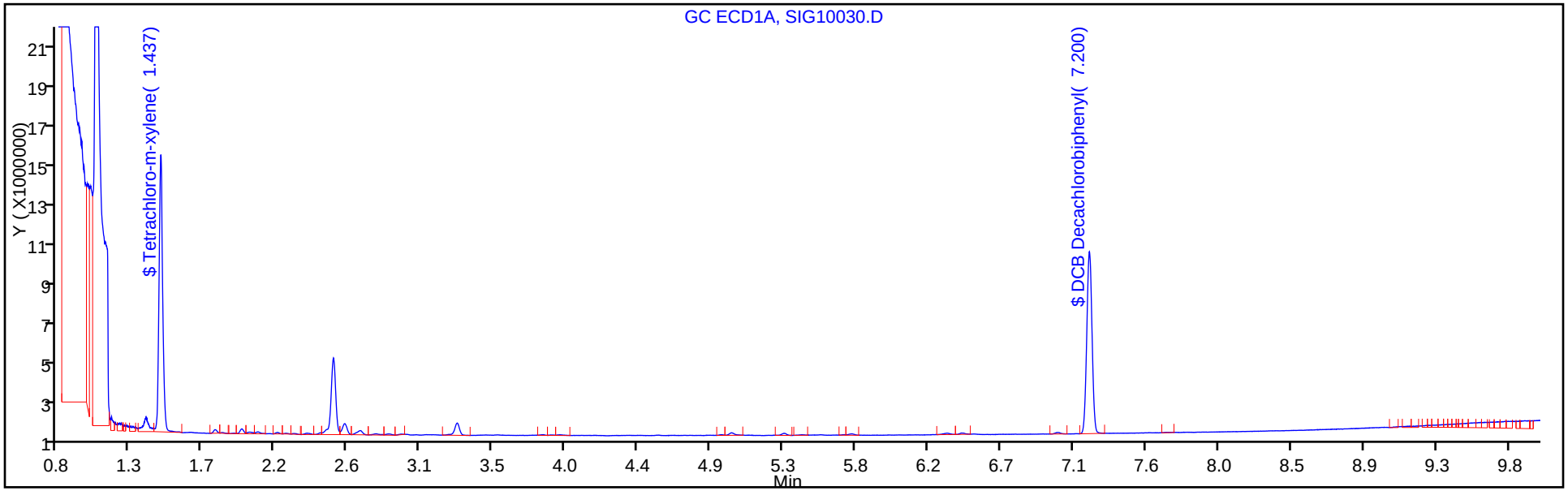
Report Date: 15-Apr-2015 10:01:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

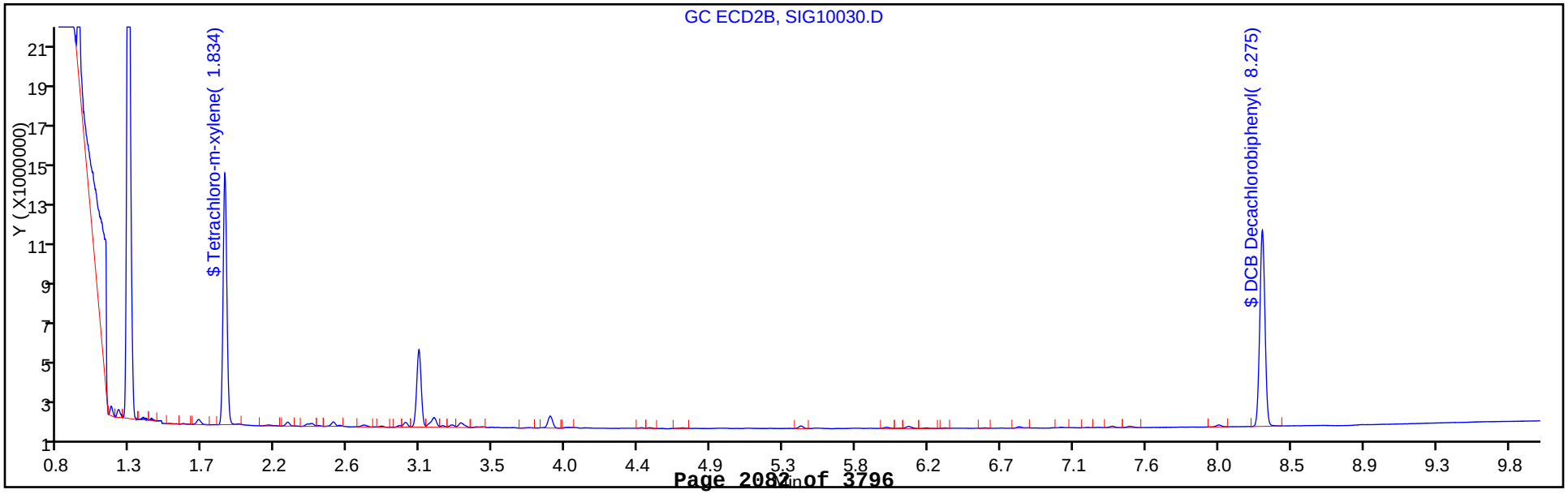
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10030.D

Injection Date:	14-Apr-2015 14:21:16	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	MB 240-176083/3-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-176083/3-A

Matrix: Water Lab File ID: SIG10030.D

Analysis Method: 8082 Date Collected:

Extraction Method: 3520C Date Extracted: 04/13/2015 06:11

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 14:21

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.20	U	0.50	0.20	0.13
12674-11-2	Aroclor-1016	0.20	U	0.50	0.20	0.17
11141-16-5	Aroclor-1232	0.20	U	0.50	0.20	0.16
53469-21-9	Aroclor-1242	0.40	U	0.50	0.40	0.22
12672-29-6	Aroclor-1248	0.20	U	0.50	0.20	0.10
11097-69-1	Aroclor-1254	0.20	U	0.50	0.20	0.16
11096-82-5	Aroclor-1260	0.20	U	0.50	0.20	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	70		40-140
2051-24-3	DCB Decachlorobiphenyl	88		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10030.D
Lims ID: MB 240-176083/3-A
Client ID:
Sample Type: MB
Inject. Date: 14-Apr-2015 14:21:16 ALS Bottle#: 30 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-007
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:32:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
$ 2 Tetrachloro-m-xylene							
1	1.437	1.435	0.002	22383081	0.0400	0.0298	
2	1.834	1.832	0.002	21081171	0.0400	0.0282	
						RPD = 5.42	
3 PCB-1221							
1		1.600				ND	
1		1.732					
1		1.768					
2		2.154					
2		2.303					
2		2.367					
4 PCB-1232							
1		1.768				ND	
1		2.106					
1		2.563					
1		2.700					
1		3.128					
2		2.366					
2		2.808					
2		3.301					
2		3.448					
2		4.096					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1		1.769				ND	
1		2.108					
1		2.566					
1		2.702					
1		3.128					
2		2.365					
2		2.809					
2		3.302					
2		3.449					
2		3.965					
5 PCB-1242							
1		1.769				ND	
1		2.107					
1		2.565					
1		2.701					
1		3.128					
2		2.367					
2		2.810					
2		3.302					
2		3.449					
2		4.097					
7 PCB-1248							
1		2.105				ND	
1		2.563					
1		3.126					
1		3.757					
1		4.220					
2		2.808					
2		3.300					
2		4.096					
2		4.428					
2		5.129					
8 PCB-1254							
1		3.526				ND	
1		3.809					
1		4.219					
1		4.519					
1		5.013					
2		4.422					
2		4.641					
2		5.129					
2		5.381					
2		5.954					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1		4.418				ND	
1		4.721					
1		5.140					
1		5.734					
1		6.073					
2		5.579					
2		6.056					
2		6.366					
2		6.648					
2		7.028					
10 PCB-1260							
1		4.421				ND	
1		4.722					
1		5.013					
1		5.737					
1		6.030					
2		5.343					
2		5.580					
2		5.953					
2		6.648					
2		7.030					
11 PCB-1268							
1		6.073				ND	
1		6.112					
1		6.316					
1		6.701					
1		7.003					
2		7.026					
2		7.076					
2		7.341					
2		7.660					
2		8.003					
$ 12 DCB Decachlorobiphenyl							
1	7.200	7.201	-0.001	21148752	0.0400	0.0358	
2	8.275	8.275	0.000	22658305	0.0400	0.0351	
						RPD = 1.95	

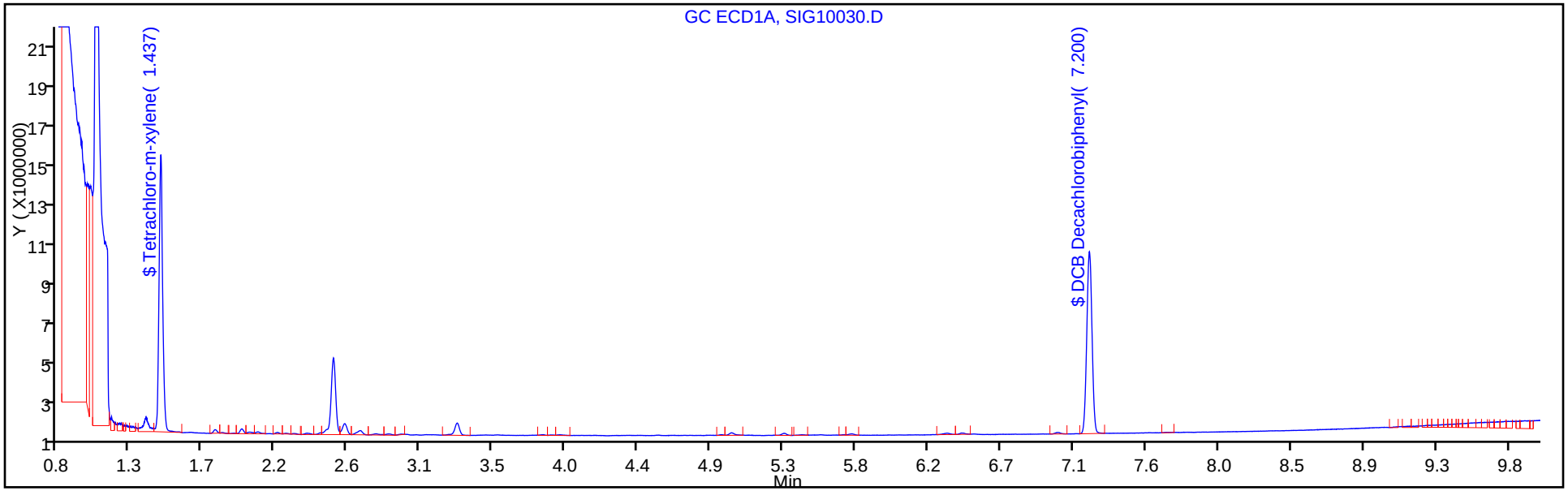
Report Date: 15-Apr-2015 10:01:53 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

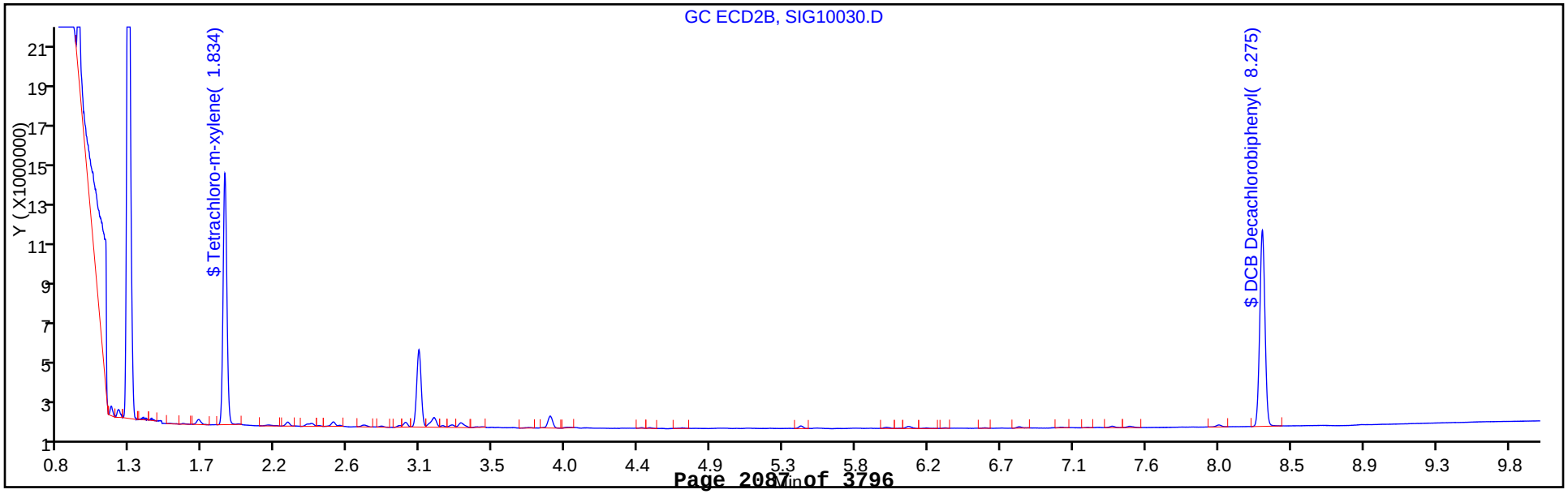
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10030.D

Injection Date:	14-Apr-2015 14:21:16	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	MB 240-176083/3-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176083/4-A

Matrix: Water | Lab File ID: SIG10031.D

Analysis Method: 8082 | Date Collected:

Extraction Method: 3520C | Date Extracted: 04/13/2015 06:11

Sample wt/vol: 1000(mL) | Date Analyzed: 04/14/2015 14:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		40-140
2051-24-3	DCB Decachlorobiphenyl	70		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D
Lims ID: LCS 240-176083/4-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Apr-2015 14:36:42 ALS Bottle#: 31 Worklist Smp#: 8
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-008
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.436	1.435	0.001	22130432	0.0400	0.0294	
2	1.834	1.832	0.002	24499775	0.0400	0.0328	
						RPD = 10.73	
6 PCB-1016							
1	1.770	1.769	0.001	9931719	1.00	0.7701	
1	2.108	2.108	0.000	18942006	1.00	0.8117	
1	2.567	2.566	0.001	43420975	1.00	0.8865	
1	2.701	2.702	-0.001	19201449	1.00	0.8763	
1	3.127	3.128	-0.001	18082520	1.00	0.8187	
		Average of Peak Amounts =				0.8327	
2	2.367	2.365	0.002	11187061	1.00	0.7796	
2	2.809	2.809	0.000	21136967	1.00	0.7722	
2	3.302	3.302	0.000	49148195	1.00	0.9036	
2	3.450	3.449	0.001	20589133	1.00	0.8402	
2	3.965	3.965	0.000	15337624	1.00	0.7810	
		Average of Peak Amounts =				0.8153	
						RPD = 2.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.420	4.421	-0.001	25216522	1.00	0.8392	
1	4.719	4.722	-0.003	45974090	1.00	0.8611	
1	5.012	5.013	-0.001	48390568	1.00	0.9673	
1	5.736	5.737	-0.001	55243006	1.00	0.7808	
1	6.027	6.030	-0.003	29607224	1.00	0.8444	
		Average of Peak Amounts =				0.8586	
2	5.342	5.343	-0.001	31072980	1.00	0.8624	
2	5.580	5.580	0.000	33913898	1.00	0.8926	
2	5.951	5.953	-0.002	55008540	1.00	1.00	
2	6.648	6.648	0.000	57785978	1.00	0.8264	
2	7.032	7.030	0.002	42978026	1.00	0.8417	
		Average of Peak Amounts =				0.8844	
						RPD = 2.96	
$ 12 DCB Decachlorobiphenyl							
1	7.200	7.201	-0.001	16452462	0.0400	0.0279	
2	8.274	8.275	-0.001	17849883	0.0400	0.0277	
						RPD = 0.69	

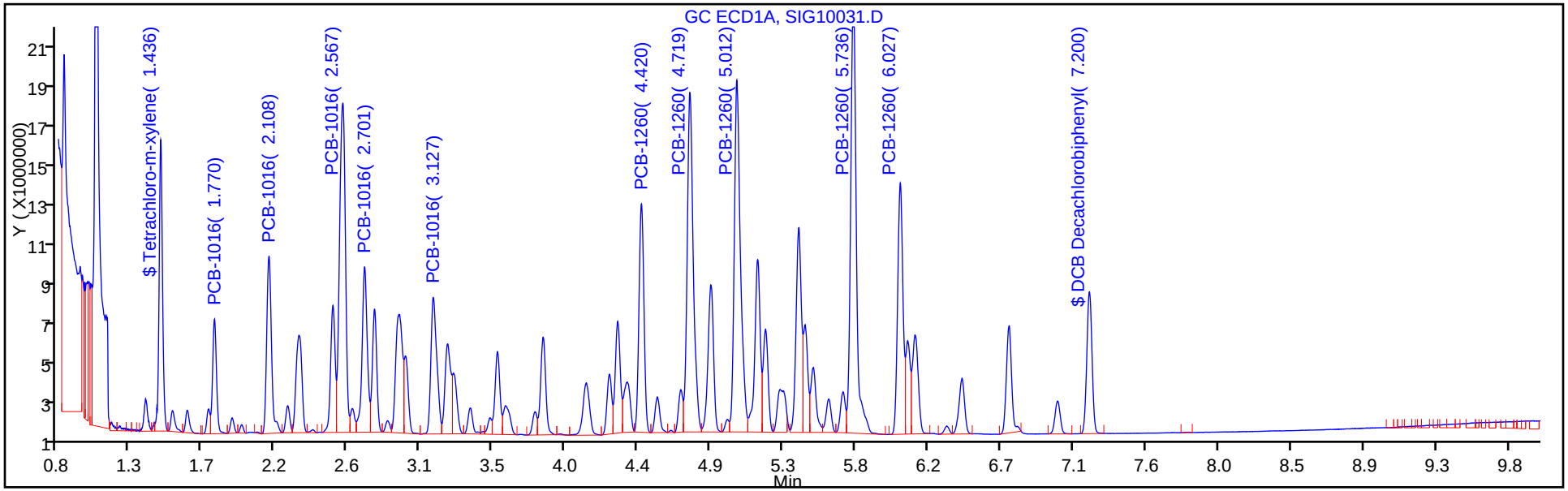
Report Date: 15-Apr-2015 10:02:00 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

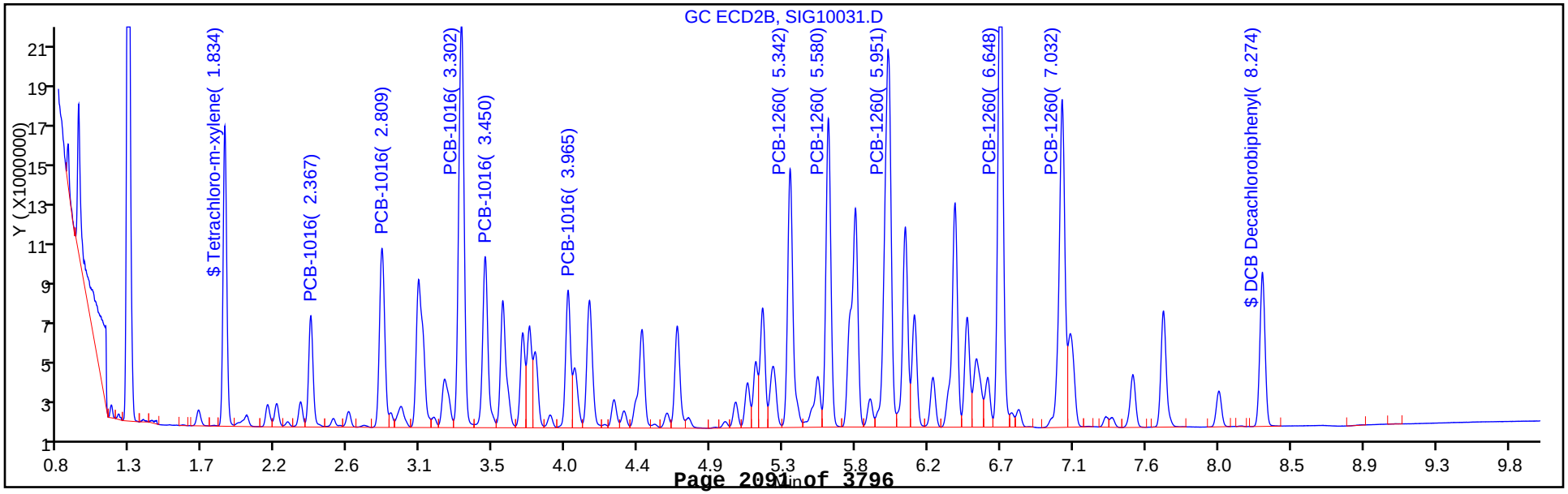
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D

Injection Date:	14-Apr-2015 14:36:42	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	LCS 240-176083/4-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 15-Apr-2015 10:02:00 Chrom Revision: 2.2 13-Mar-2015 11:20:44

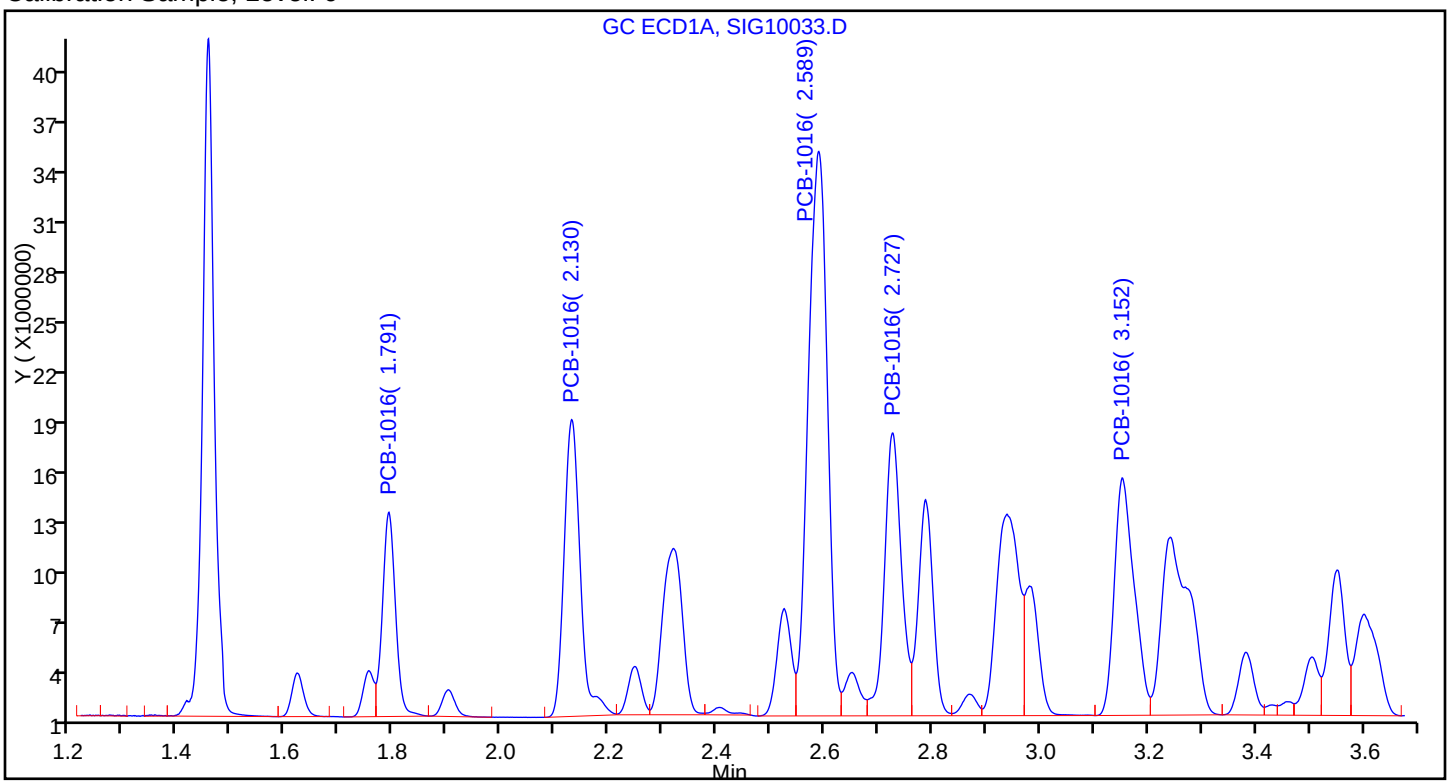
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D

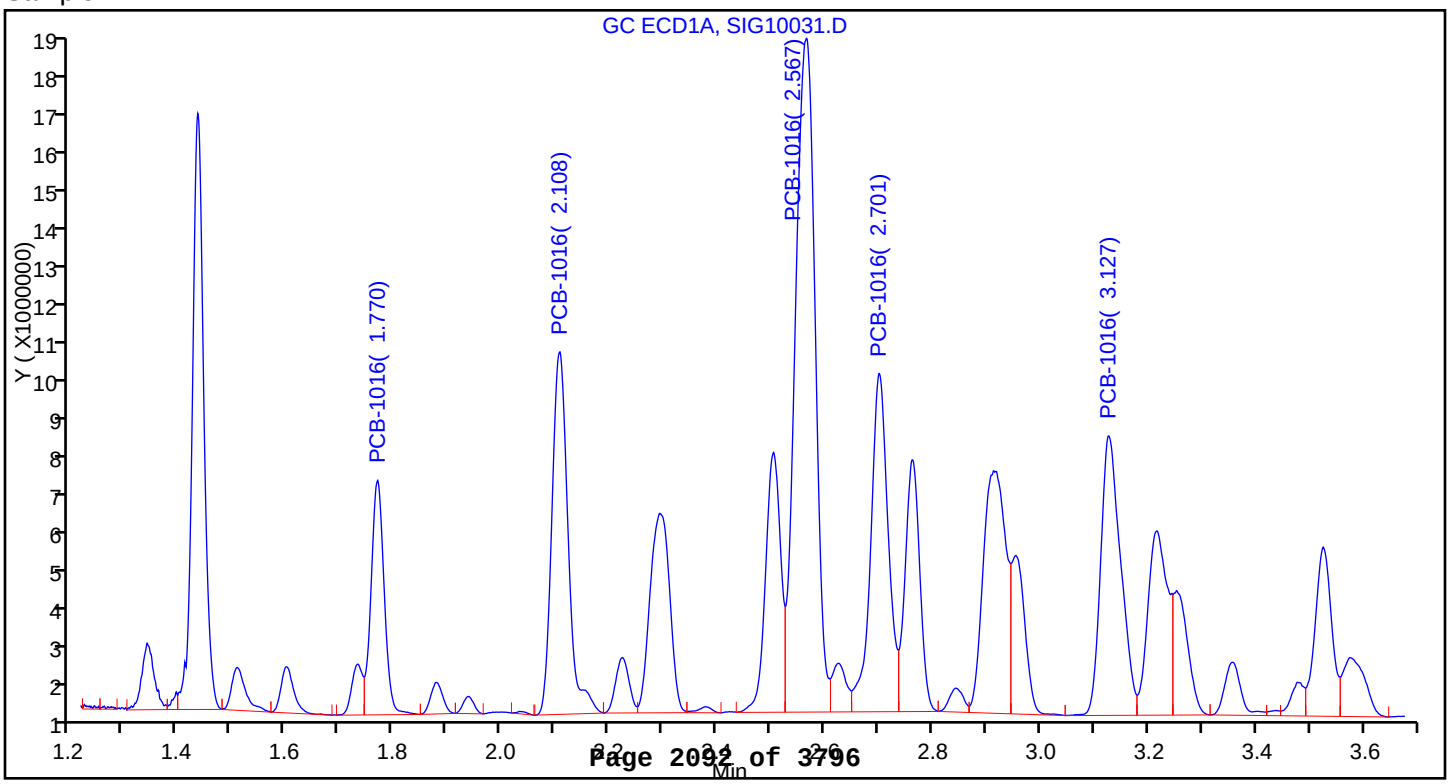
Injection Date:	14-Apr-2015 14:36:42	Instrument ID:	A2HP10
Lims ID:	LCS 240-176083/4-A		
Client ID:			
Operator ID:		ALS Bottle#:	31 Worklist Smp#: 8
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 15-Apr-2015 10:02:00 Chrom Revision: 2.2 13-Mar-2015 11:20:44

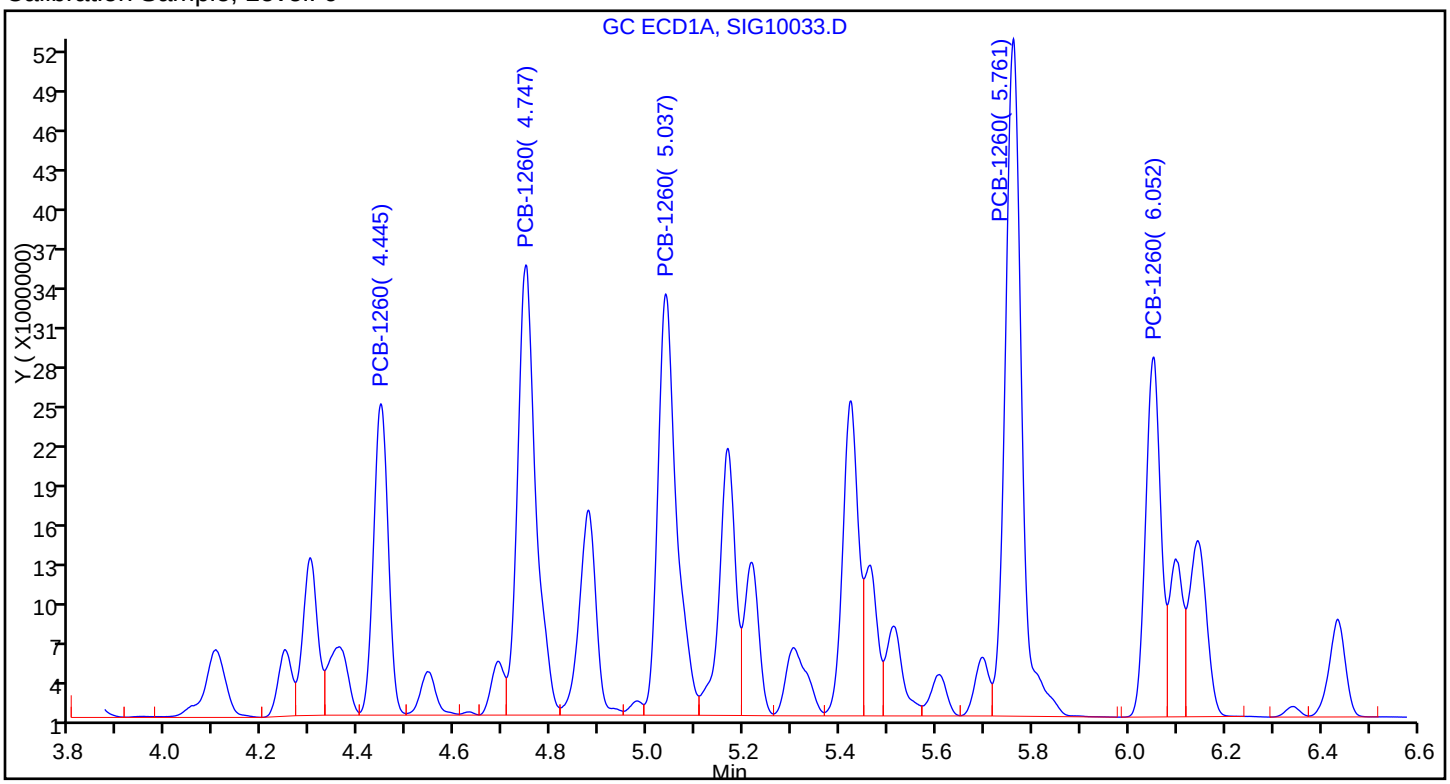
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D

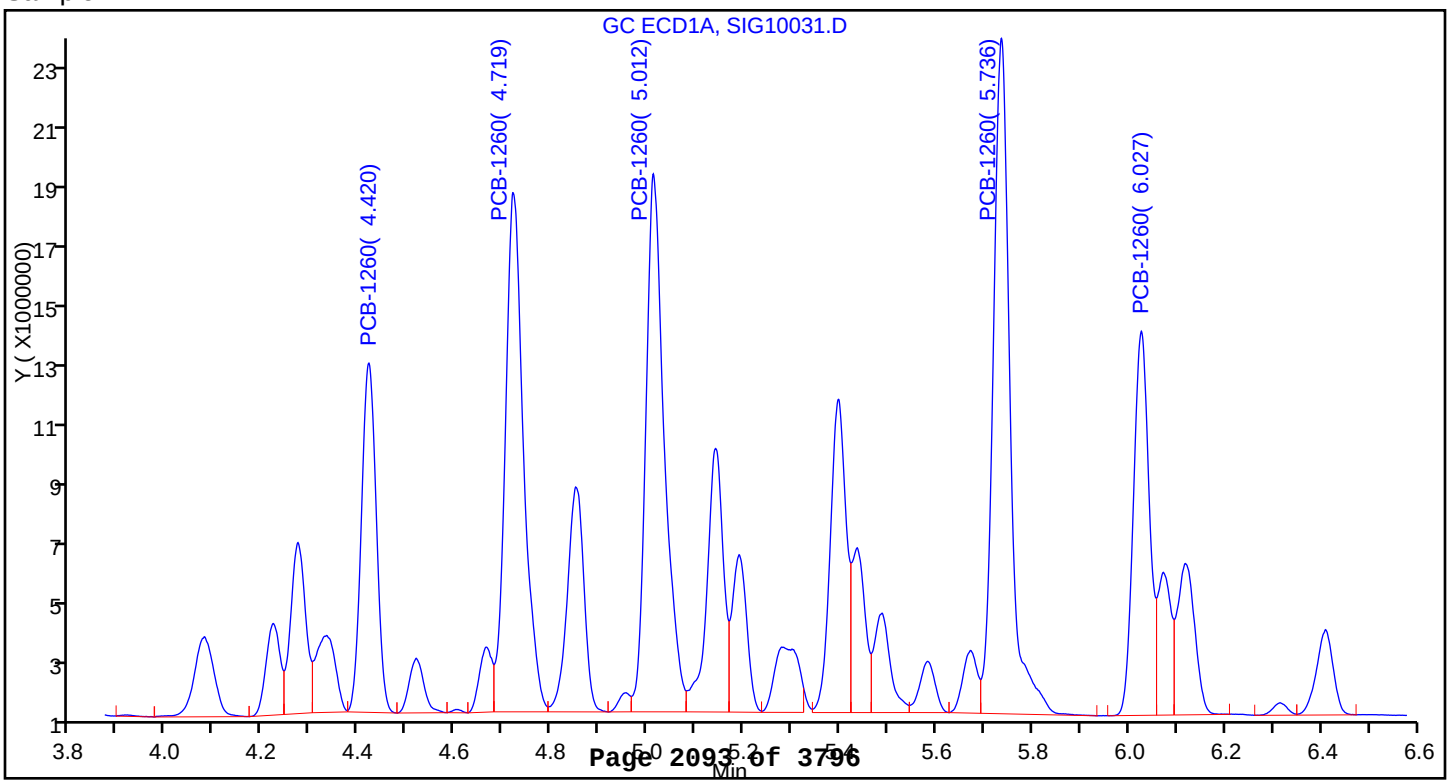
Injection Date:	14-Apr-2015 14:36:42	Instrument ID:	A2HP10
Lims ID:	LCS 240-176083/4-A		
Client ID:			
Operator ID:		ALS Bottle#:	31 Worklist Smp#: 8
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176083/4-A

Matrix: Water Lab File ID: SIG10031.D

Analysis Method: 8082 Date Collected:

Extraction Method: 3520C Date Extracted: 04/13/2015 06:11

Sample wt/vol: 1000(mL) Date Analyzed: 04/14/2015 14:36

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	Aroclor-1016	4.08		0.50	0.20	0.17
11096-82-5	Aroclor-1260	4.42		0.50	0.20	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		40-140
2051-24-3	DCB Decachlorobiphenyl	69		40-135

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D
Lims ID: LCS 240-176083/4-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Apr-2015 14:36:42 ALS Bottle#: 31 Worklist Smp#: 8
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-008
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 2 Tetrachloro-m-xylene							
1	1.436	1.435	0.001	22130432	0.0400	0.0294	
2	1.834	1.832	0.002	24499775	0.0400	0.0328	
						RPD = 10.73	
6 PCB-1016							
1	1.770	1.769	0.001	9931719	1.00	0.7701	
1	2.108	2.108	0.000	18942006	1.00	0.8117	
1	2.567	2.566	0.001	43420975	1.00	0.8865	
1	2.701	2.702	-0.001	19201449	1.00	0.8763	
1	3.127	3.128	-0.001	18082520	1.00	0.8187	
		Average of Peak Amounts =				0.8327	
2	2.367	2.365	0.002	11187061	1.00	0.7796	
2	2.809	2.809	0.000	21136967	1.00	0.7722	
2	3.302	3.302	0.000	49148195	1.00	0.9036	
2	3.450	3.449	0.001	20589133	1.00	0.8402	
2	3.965	3.965	0.000	15337624	1.00	0.7810	
		Average of Peak Amounts =				0.8153	
						RPD = 2.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	4.420	4.421	-0.001	25216522	1.00	0.8392	
1	4.719	4.722	-0.003	45974090	1.00	0.8611	
1	5.012	5.013	-0.001	48390568	1.00	0.9673	
1	5.736	5.737	-0.001	55243006	1.00	0.7808	
1	6.027	6.030	-0.003	29607224	1.00	0.8444	
		Average of Peak Amounts =				0.8586	
2	5.342	5.343	-0.001	31072980	1.00	0.8624	
2	5.580	5.580	0.000	33913898	1.00	0.8926	
2	5.951	5.953	-0.002	55008540	1.00	1.00	
2	6.648	6.648	0.000	57785978	1.00	0.8264	
2	7.032	7.030	0.002	42978026	1.00	0.8417	
		Average of Peak Amounts =				0.8844	
						RPD = 2.96	
$ 12 DCB Decachlorobiphenyl							
1	7.200	7.201	-0.001	16452462	0.0400	0.0279	
2	8.274	8.275	-0.001	17849883	0.0400	0.0277	
						RPD = 0.69	

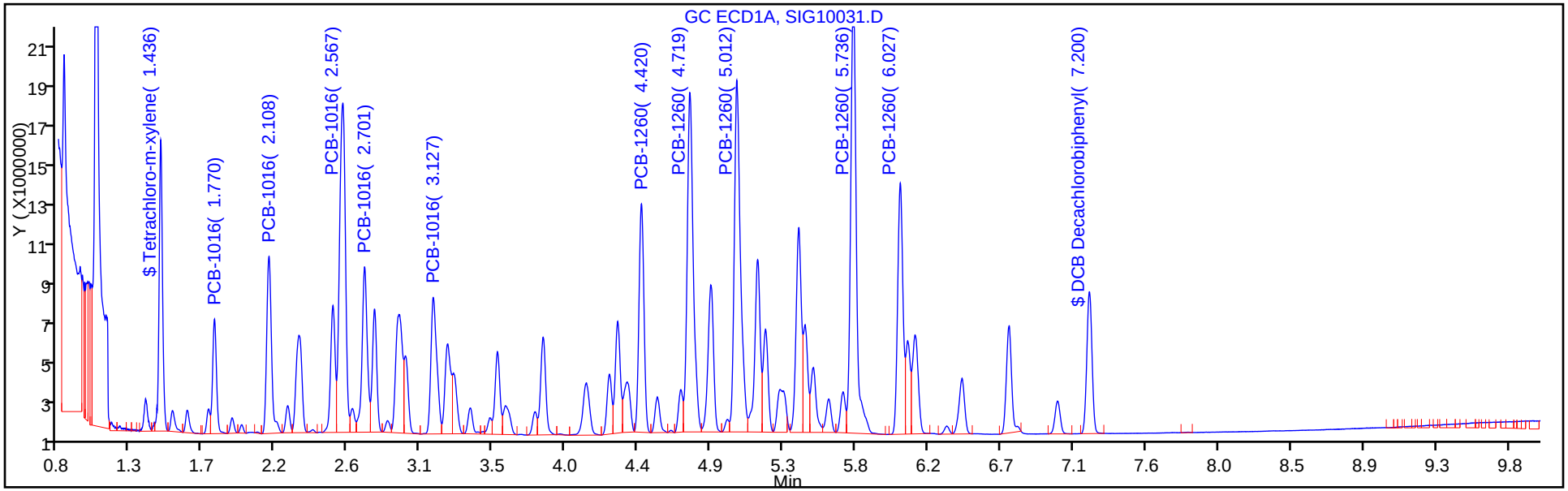
Report Date: 15-Apr-2015 10:02:00 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

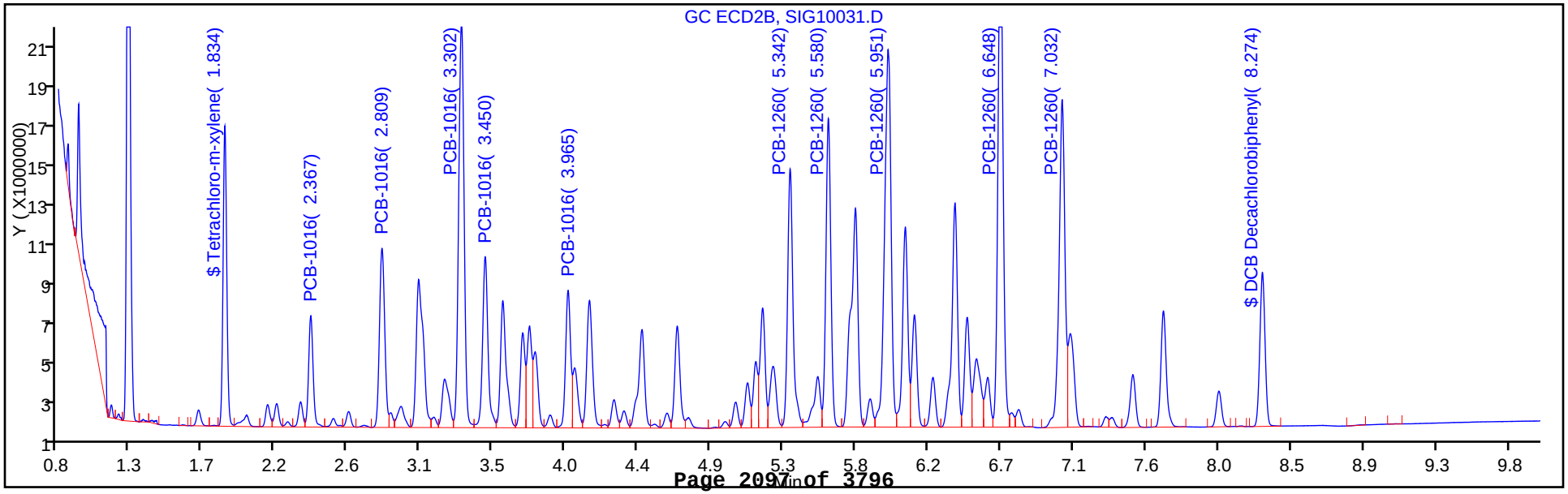
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D

Injection Date:	14-Apr-2015 14:36:42	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	LCS 240-176083/4-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 15-Apr-2015 10:02:01 Chrom Revision: 2.2 13-Mar-2015 11:20:44

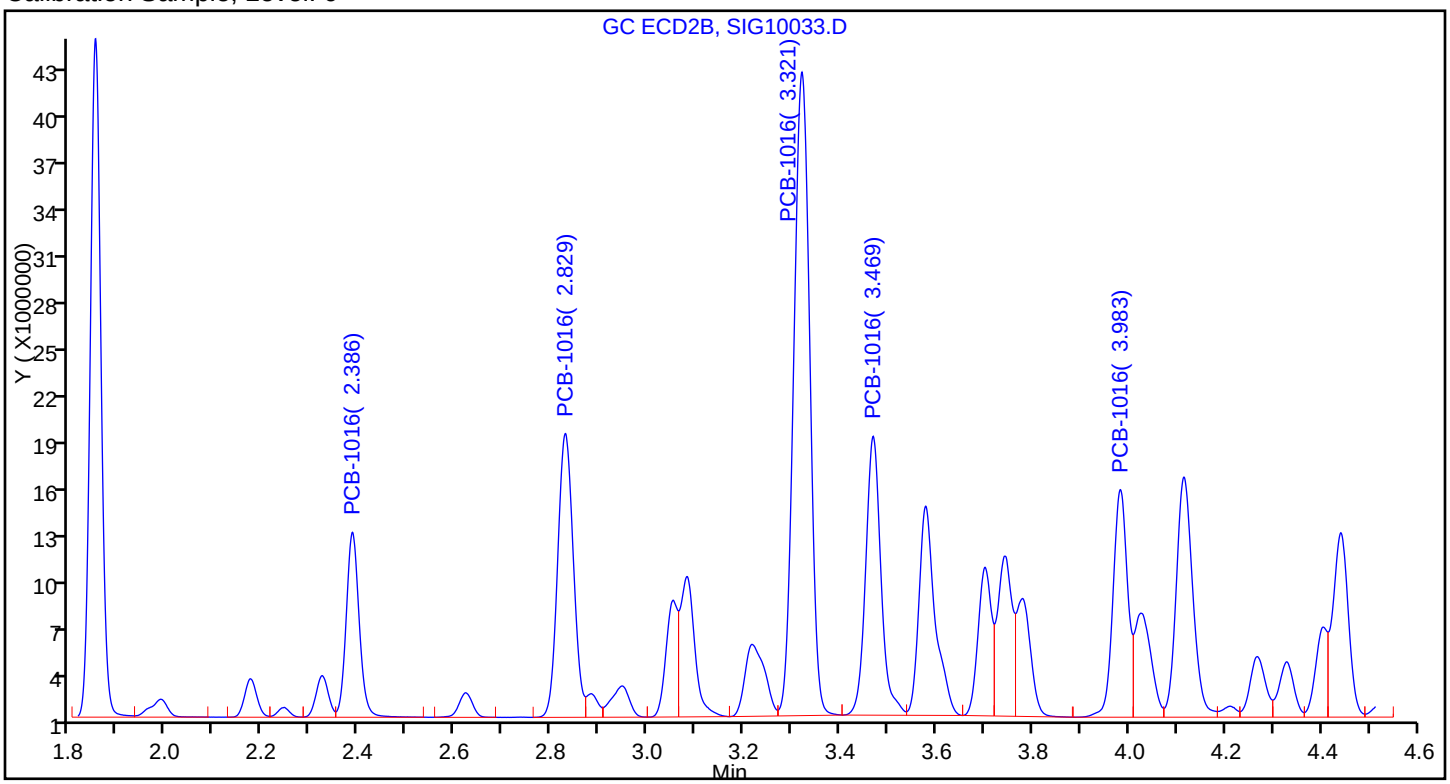
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D

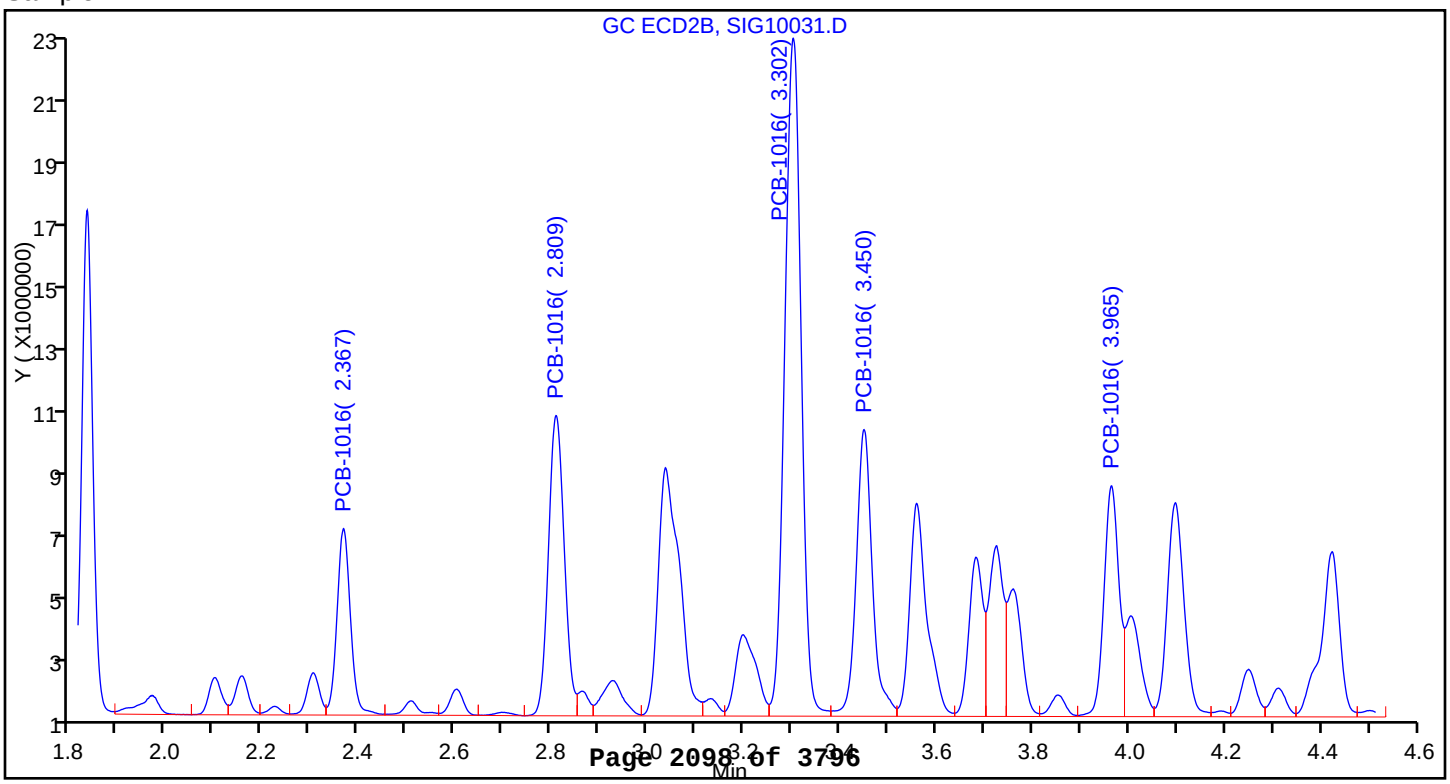
Injection Date:	14-Apr-2015 14:36:42	Instrument ID:	A2HP10
Lims ID:	LCS 240-176083/4-A		
Client ID:			
Operator ID:		ALS Bottle#:	31 Worklist Smp#: 8
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ecd2b

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 15-Apr-2015 10:02:01 Chrom Revision: 2.2 13-Mar-2015 11:20:44

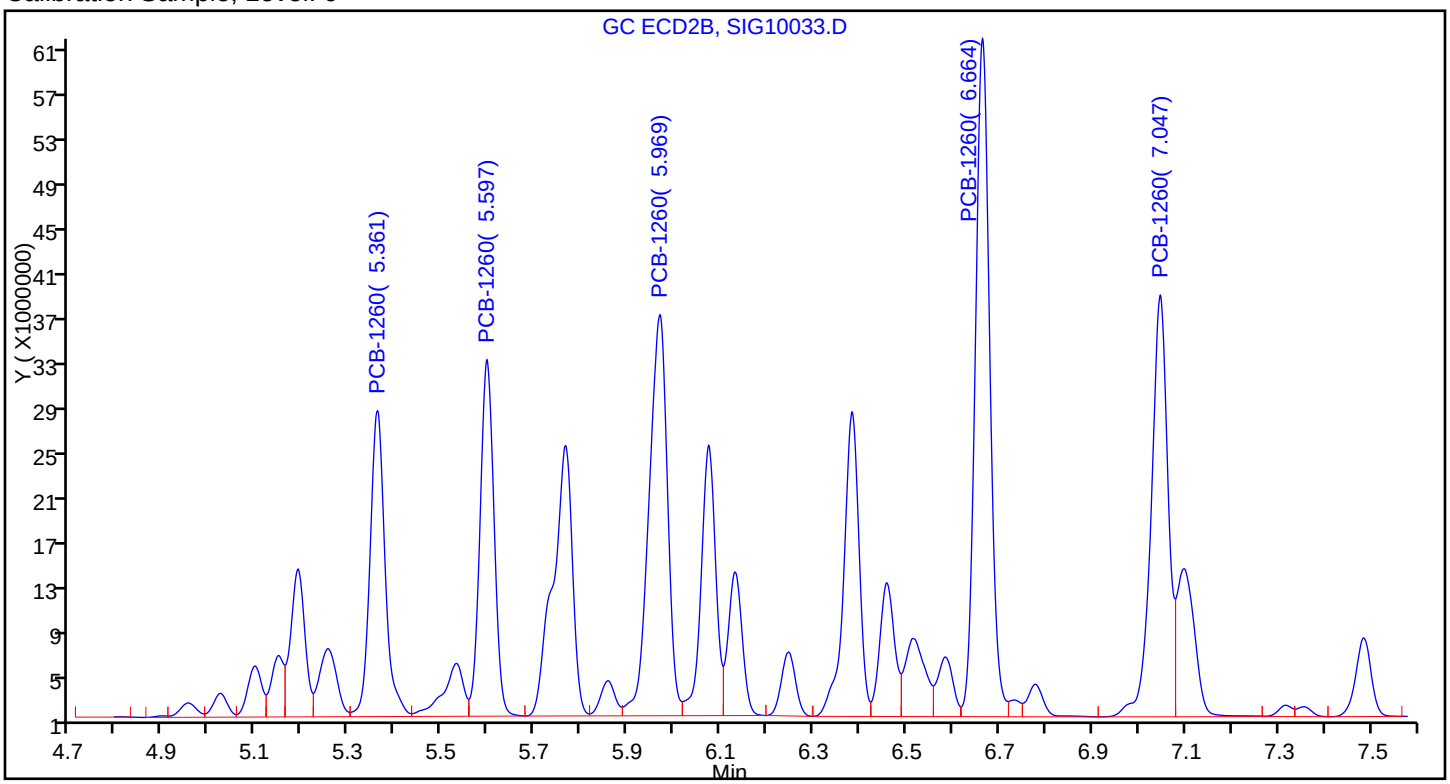
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10031.D

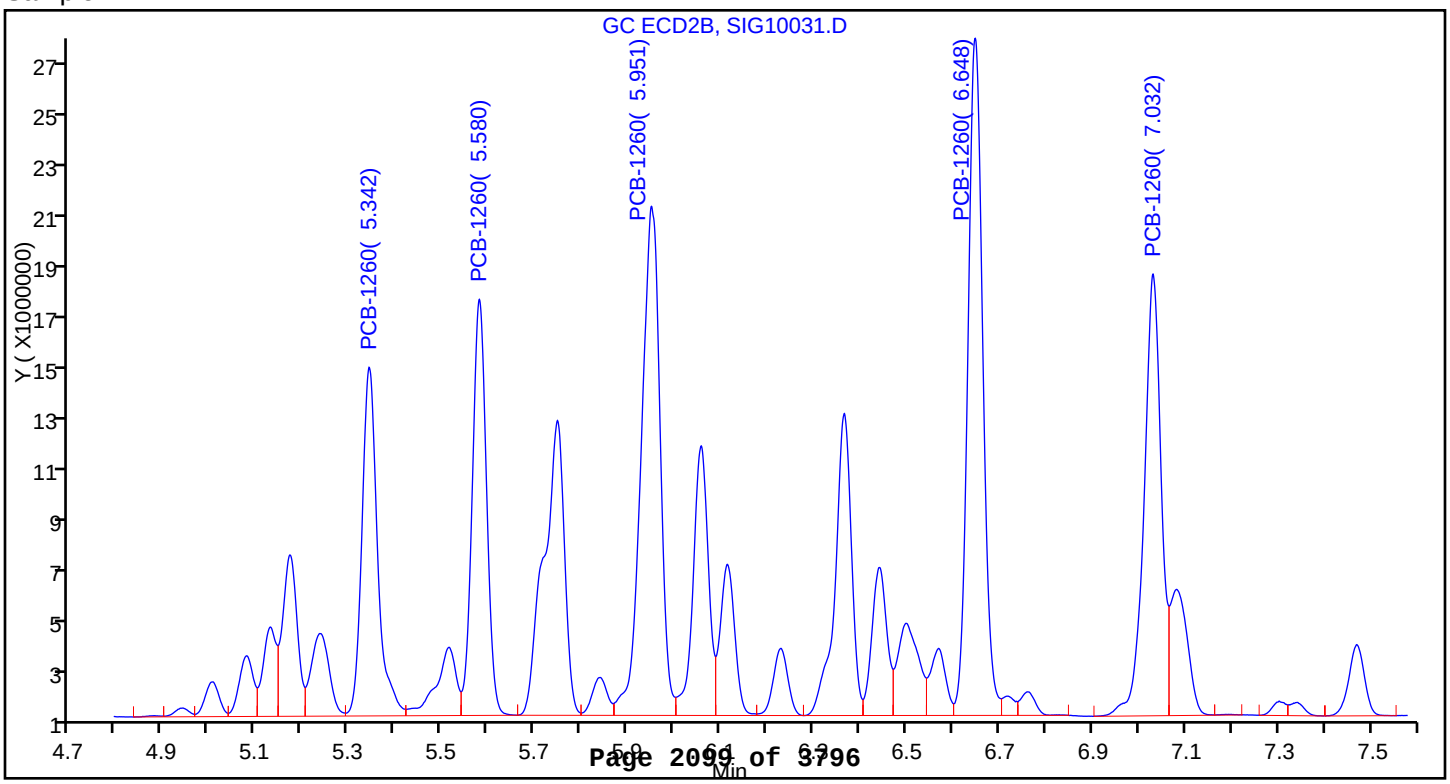
Injection Date:	14-Apr-2015 14:36:42	Instrument ID:	A2HP10
Lims ID:	LCS 240-176083/4-A		
Client ID:			
Operator ID:		ALS Bottle#:	31 Worklist Smp#: 8
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176376/4

Matrix: Water Lab File ID: SIG10027.D

Analysis Method: 8082 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/14/2015 13:34

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		50-150
2051-24-3	DCB Decachlorobiphenyl	111		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D
Lims ID: mrl
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 13:34:45 ALS Bottle#: 27 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-004
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:31:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
$ 2 Tetrachloro-m-xylene							
1	1.435	1.435	0.000	1948346	0.002500	0.002590	
2	1.833	1.832	0.001	2073970	0.002500	0.002773	
						RPD = 6.81	
3 PCB-1221							
1		1.600				ND	
1		1.732					
1		1.768					
2		2.154					
2		2.303					
2		2.367					
4 PCB-1232							
1		1.768				ND	
1		2.106					
1		2.563					
1		2.700					
1		3.128					
2		2.366					
2		2.808					
2		3.301					
2		3.448					
2		4.096					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	1.770	1.769	0.001	665641	0.0500	0.0516	
1	2.106	2.108	-0.002	1276918	0.0500	0.0547	
1	2.565	2.566	-0.001	2544454	0.0500	0.0520	
1	2.701	2.702	-0.001	1052096	0.0500	0.0480	
1	3.128	3.128	0.000	1151681	0.0500	0.0521	
		Average of Peak Amounts =				0.0517	
2	2.365	2.365	0.000	818532	0.0500	0.0570	
2	2.806	2.809	-0.003	1529269	0.0500	0.0559	
2	3.301	3.302	-0.001	2878254	0.0500	0.0529	
2	3.450	3.449	0.001	1306934	0.0500	0.0533	
2	3.964	3.965	-0.001	1005023	0.0500	0.0512	
		Average of Peak Amounts =				0.0541	
						RPD = 4.50	
5 PCB-1242							
1		1.769				ND	
1		2.107					
1		2.565					
1		2.701					
1		3.128					
2		2.367					
2		2.810					
2		3.302					
2		3.449					
2		4.097					
7 PCB-1248							
1		2.105				ND	
1		2.563					
1		3.126					
1		3.757					
1		4.220					
2		2.808					
2		3.300					
2		4.096					
2		4.428					
2		5.129					
8 PCB-1254							
1		3.526				ND	
1		3.809					
1		4.219					
1		4.519					
1		5.013					
2		4.422					
2		4.641					
2		5.129					
2		5.381					
2		5.954					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1		4.418				ND	
1		4.721					
1		5.140					
1		5.734					
1		6.073					
2		5.579					
2		6.056					
2		6.366					
2		6.648					
2		7.028					
10 PCB-1260							
1	4.420	4.421	-0.001	1576028	0.0500	0.0524	
1	4.722	4.722	0.000	2893867	0.0500	0.0542	
1	5.015	5.013	0.002	2702923	0.0500	0.0540	
1	5.736	5.737	-0.001	3650094	0.0500	0.0516	
1	6.026	6.030	-0.004	1883079	0.0500	0.0537	
		Average of Peak Amounts =				0.0532	
2	5.345	5.343	0.002	1936620	0.0500	0.0537	
2	5.580	5.580	0.000	2124287	0.0500	0.0559	
2	5.954	5.953	0.001	2978437	0.0500	0.0541	
2	6.649	6.648	0.001	3628106	0.0500	0.0519	
2	7.032	7.030	0.002	2860023	0.0500	0.0560	
		Average of Peak Amounts =				0.0543	
						RPD = 2.11	
11 PCB-1268							
1		6.073				ND	
1		6.112					
1		6.316					
1		6.701					
1		7.003					
2		7.026					
2		7.076					
2		7.341					
2		7.660					
2		8.003					
$ 12 DCB Decachlorobiphenyl							
1	7.200	7.201	-0.001	1638224	0.002500	0.002774	
2	8.273	8.275	-0.002	1900182	0.002500	0.002945	
						RPD = 5.99	

Reagents:

SG1660@.05PPM_00012 Amount Added: 1.00 Units: mL

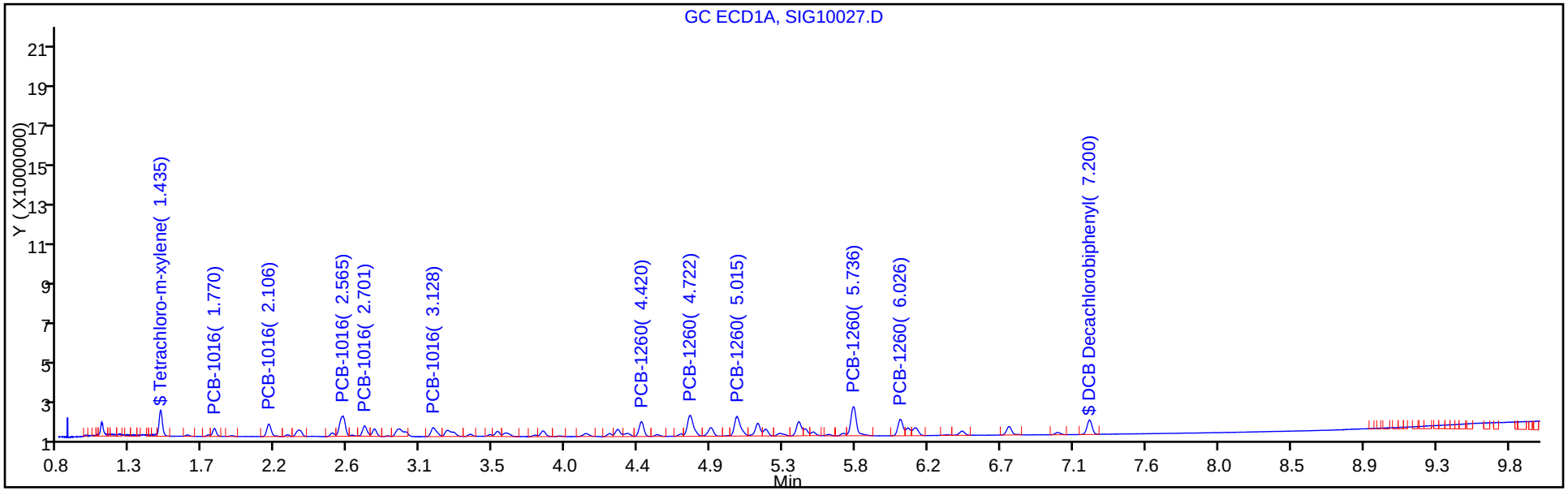
Report Date: 15-Apr-2015 10:01:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

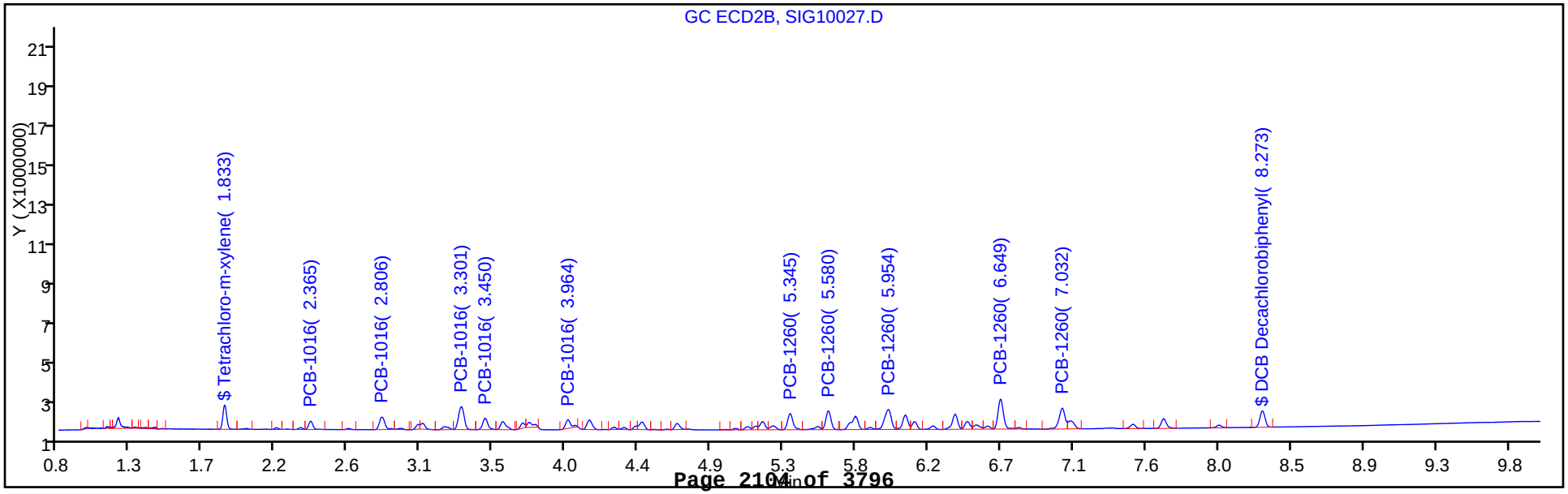
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D

Injection Date:	14-Apr-2015 13:34:45	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	mrl			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 15-Apr-2015 10:01:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

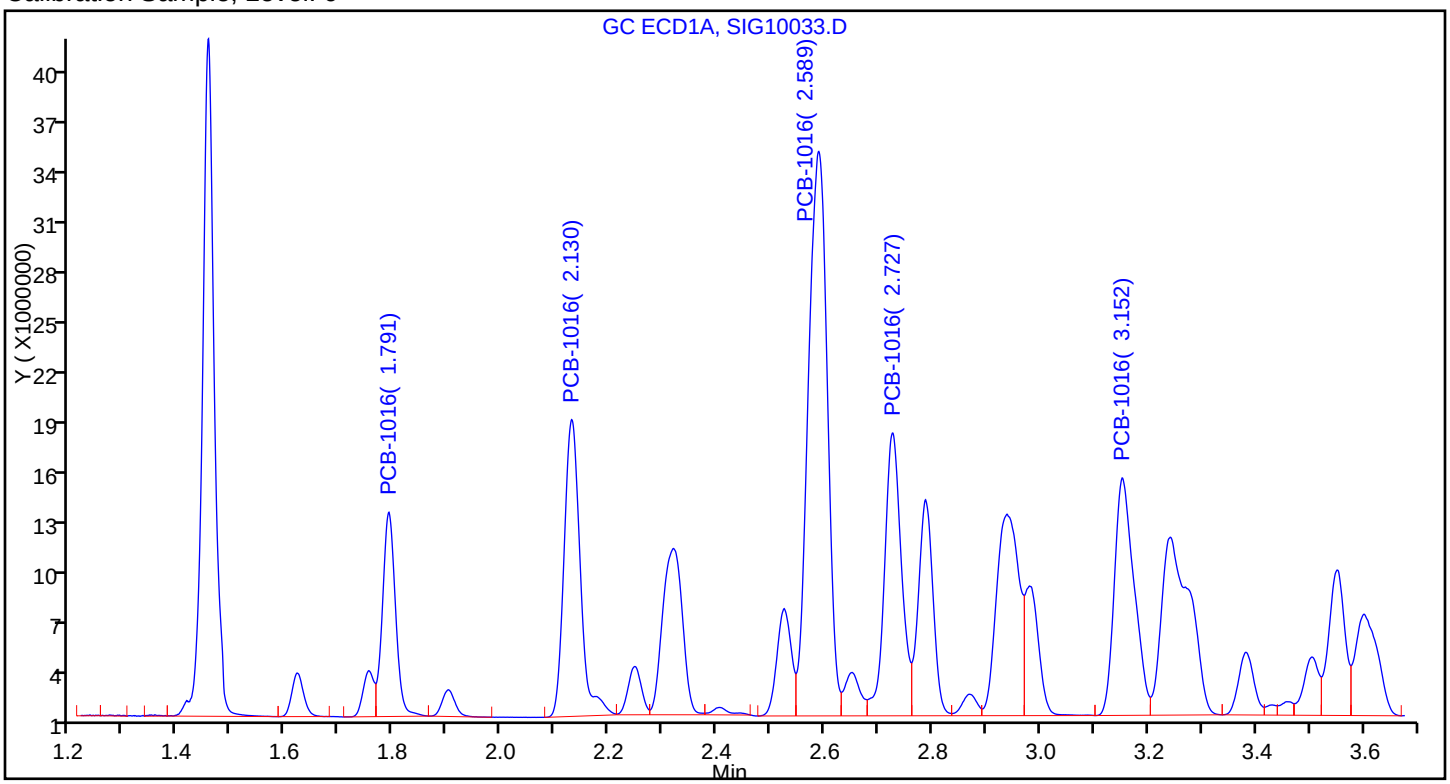
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D

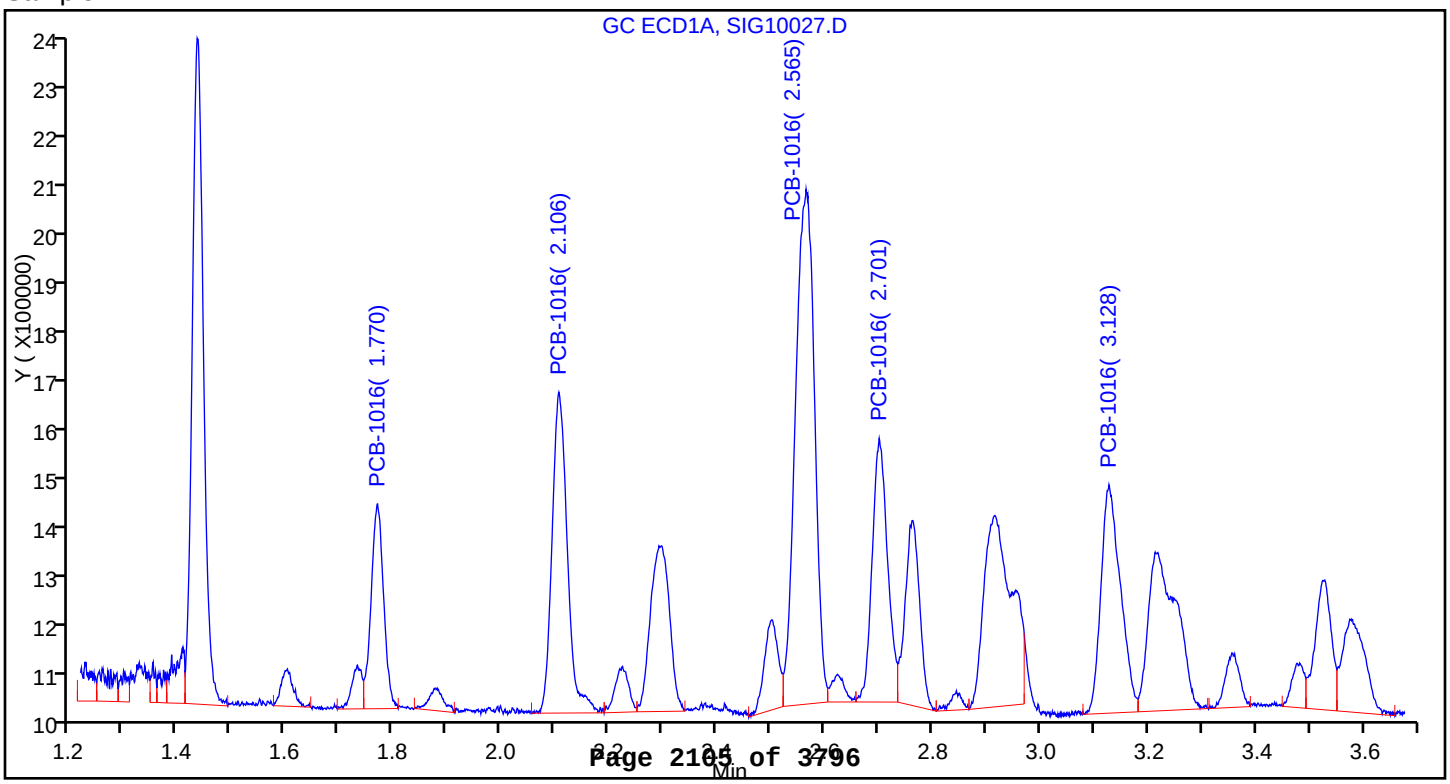
Injection Date:	14-Apr-2015 13:34:45	Instrument ID:	A2HP10
Lims ID:	mrl		
Client ID:			
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 15-Apr-2015 10:01:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

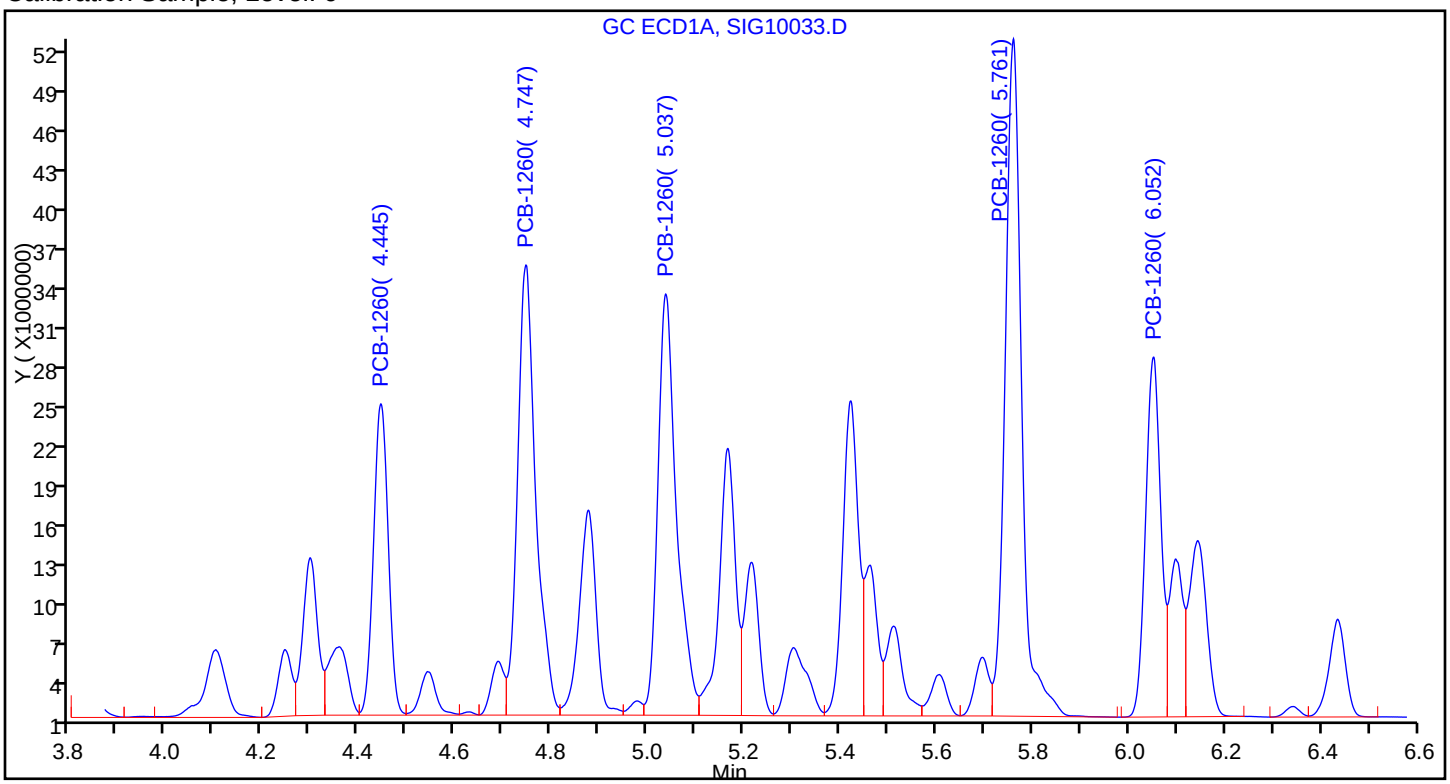
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D

Injection Date:	14-Apr-2015 13:34:45	Instrument ID:	A2HP10
Lims ID:	mrl		
Client ID:			
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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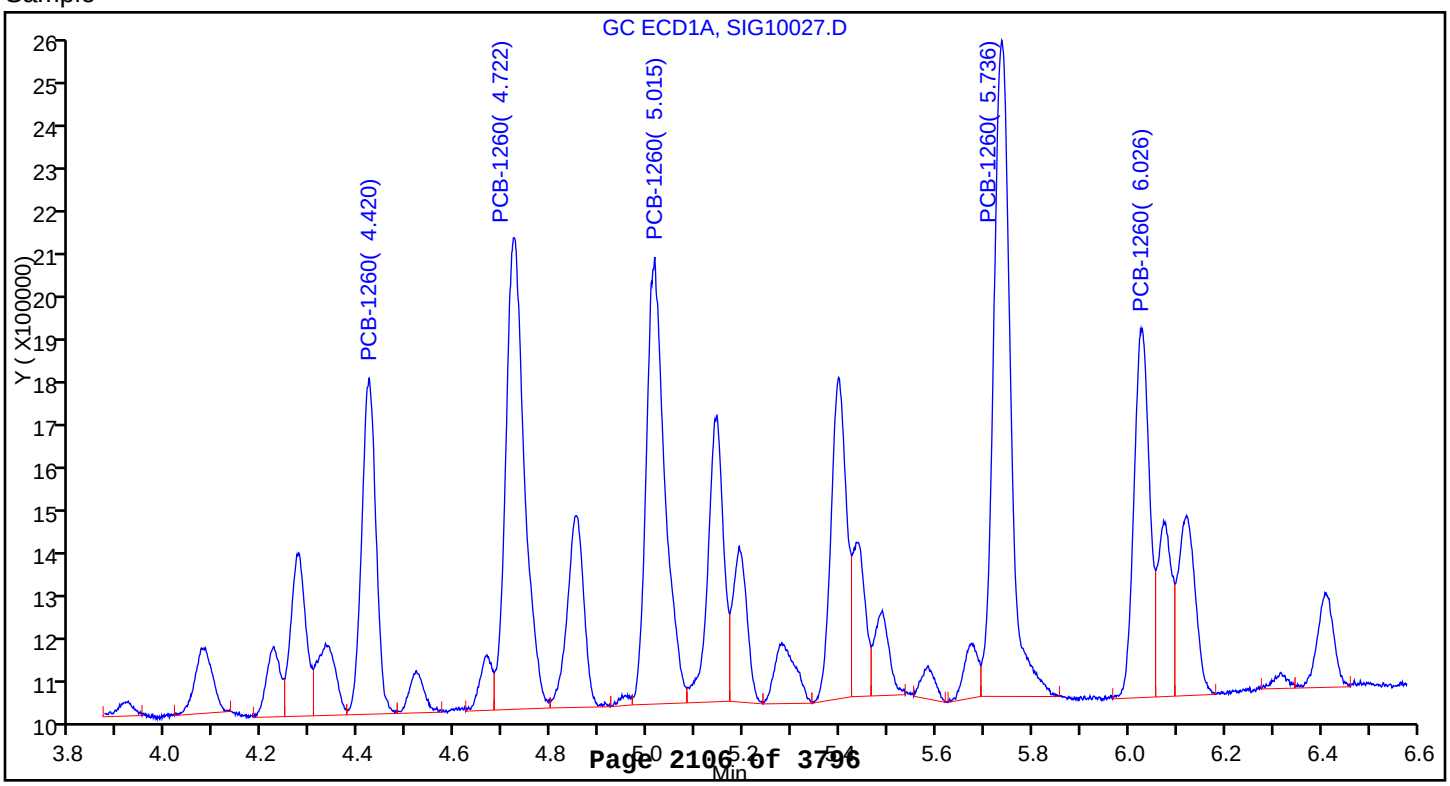


FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-176376/4

Matrix: Water Lab File ID: SIG10027.D

Analysis Method: 8082 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/14/2015 13:34

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0541		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0543		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		50-150
2051-24-3	DCB Decachlorobiphenyl	118		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D
Lims ID: mrl
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 13:34:45 ALS Bottle#: 27 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-004
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:01:37 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:31:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
$ 2 Tetrachloro-m-xylene							
1	1.435	1.435	0.000	1948346	0.002500	0.002590	
2	1.833	1.832	0.001	2073970	0.002500	0.002773	
						RPD = 6.81	
3 PCB-1221							
1		1.600				ND	
1		1.732					
1		1.768					
2		2.154					
2		2.303					
2		2.367					
4 PCB-1232							
1		1.768				ND	
1		2.106					
1		2.563					
1		2.700					
1		3.128					
2		2.366					
2		2.808					
2		3.301					
2		3.448					
2		4.096					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	1.770	1.769	0.001	665641	0.0500	0.0516	
1	2.106	2.108	-0.002	1276918	0.0500	0.0547	
1	2.565	2.566	-0.001	2544454	0.0500	0.0520	
1	2.701	2.702	-0.001	1052096	0.0500	0.0480	
1	3.128	3.128	0.000	1151681	0.0500	0.0521	
		Average of Peak Amounts =				0.0517	
2	2.365	2.365	0.000	818532	0.0500	0.0570	
2	2.806	2.809	-0.003	1529269	0.0500	0.0559	
2	3.301	3.302	-0.001	2878254	0.0500	0.0529	
2	3.450	3.449	0.001	1306934	0.0500	0.0533	
2	3.964	3.965	-0.001	1005023	0.0500	0.0512	
		Average of Peak Amounts =				0.0541	
						RPD = 4.50	
5 PCB-1242							
1		1.769				ND	
1		2.107					
1		2.565					
1		2.701					
1		3.128					
2		2.367					
2		2.810					
2		3.302					
2		3.449					
2		4.097					
7 PCB-1248							
1		2.105				ND	
1		2.563					
1		3.126					
1		3.757					
1		4.220					
2		2.808					
2		3.300					
2		4.096					
2		4.428					
2		5.129					
8 PCB-1254							
1		3.526				ND	
1		3.809					
1		4.219					
1		4.519					
1		5.013					
2		4.422					
2		4.641					
2		5.129					
2		5.381					
2		5.954					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1		4.418				ND	
1		4.721					
1		5.140					
1		5.734					
1		6.073					
2		5.579					
2		6.056					
2		6.366					
2		6.648					
2		7.028					
10 PCB-1260							
1	4.420	4.421	-0.001	1576028	0.0500	0.0524	
1	4.722	4.722	0.000	2893867	0.0500	0.0542	
1	5.015	5.013	0.002	2702923	0.0500	0.0540	
1	5.736	5.737	-0.001	3650094	0.0500	0.0516	
1	6.026	6.030	-0.004	1883079	0.0500	0.0537	
		Average of Peak Amounts =				0.0532	
2	5.345	5.343	0.002	1936620	0.0500	0.0537	
2	5.580	5.580	0.000	2124287	0.0500	0.0559	
2	5.954	5.953	0.001	2978437	0.0500	0.0541	
2	6.649	6.648	0.001	3628106	0.0500	0.0519	
2	7.032	7.030	0.002	2860023	0.0500	0.0560	
		Average of Peak Amounts =				0.0543	
						RPD = 2.11	
11 PCB-1268							
1		6.073				ND	
1		6.112					
1		6.316					
1		6.701					
1		7.003					
2		7.026					
2		7.076					
2		7.341					
2		7.660					
2		8.003					
$ 12 DCB Decachlorobiphenyl							
1	7.200	7.201	-0.001	1638224	0.002500	0.002774	
2	8.273	8.275	-0.002	1900182	0.002500	0.002945	
						RPD = 5.99	

Reagents:

SG1660@.05PPM_00012 Amount Added: 1.00 Units: mL

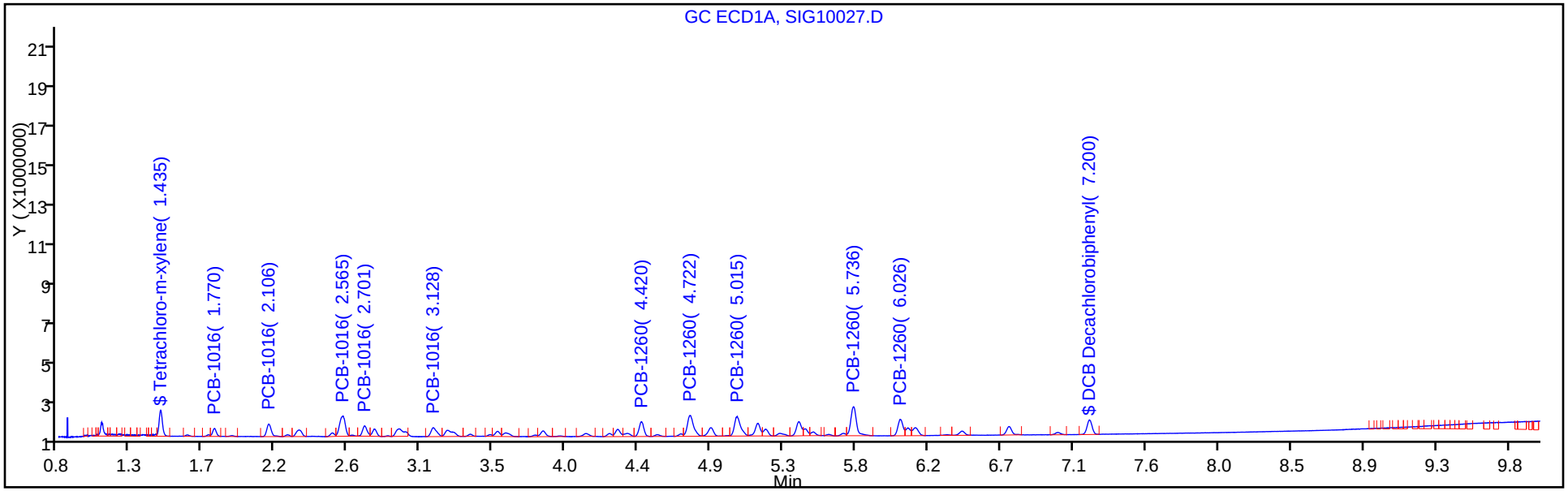
Report Date: 15-Apr-2015 10:01:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

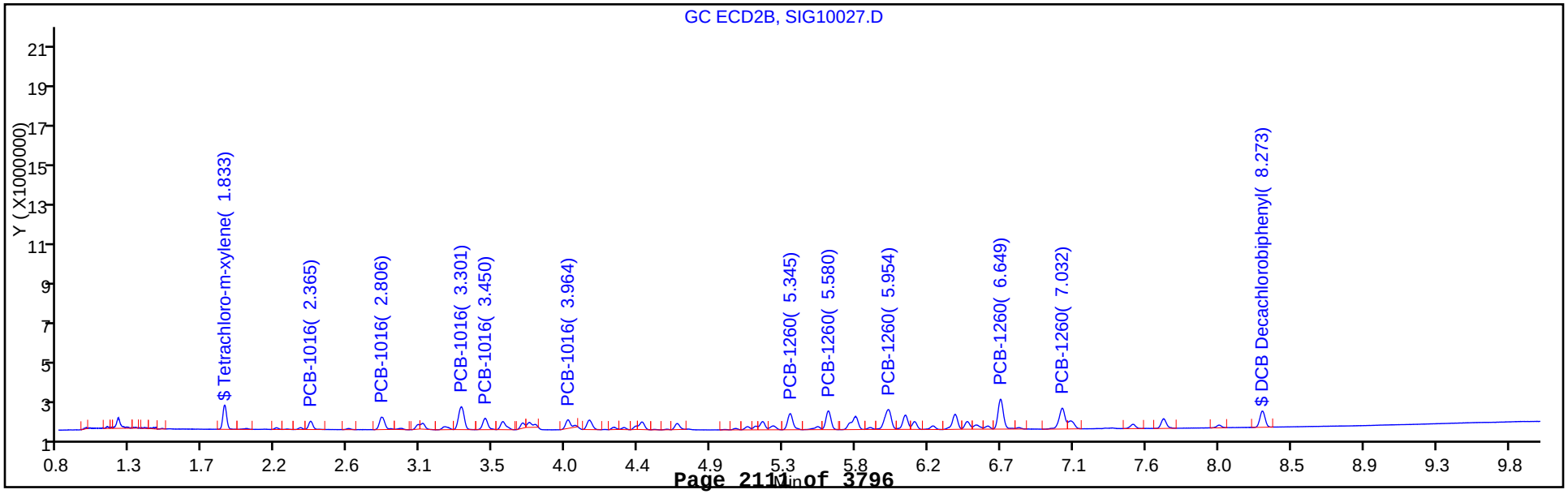
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D

Injection Date:	14-Apr-2015 13:34:45	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	mrl			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 15-Apr-2015 10:01:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

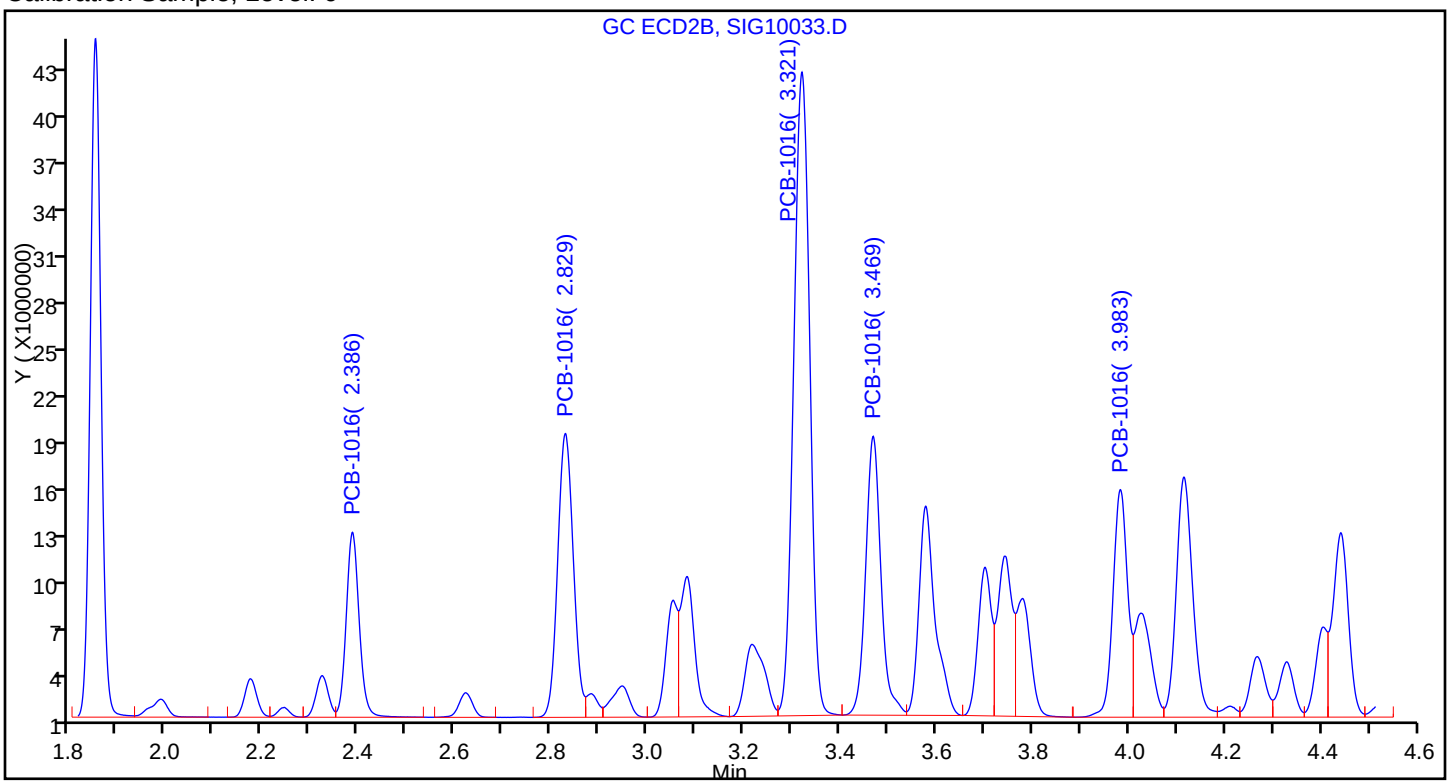
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D

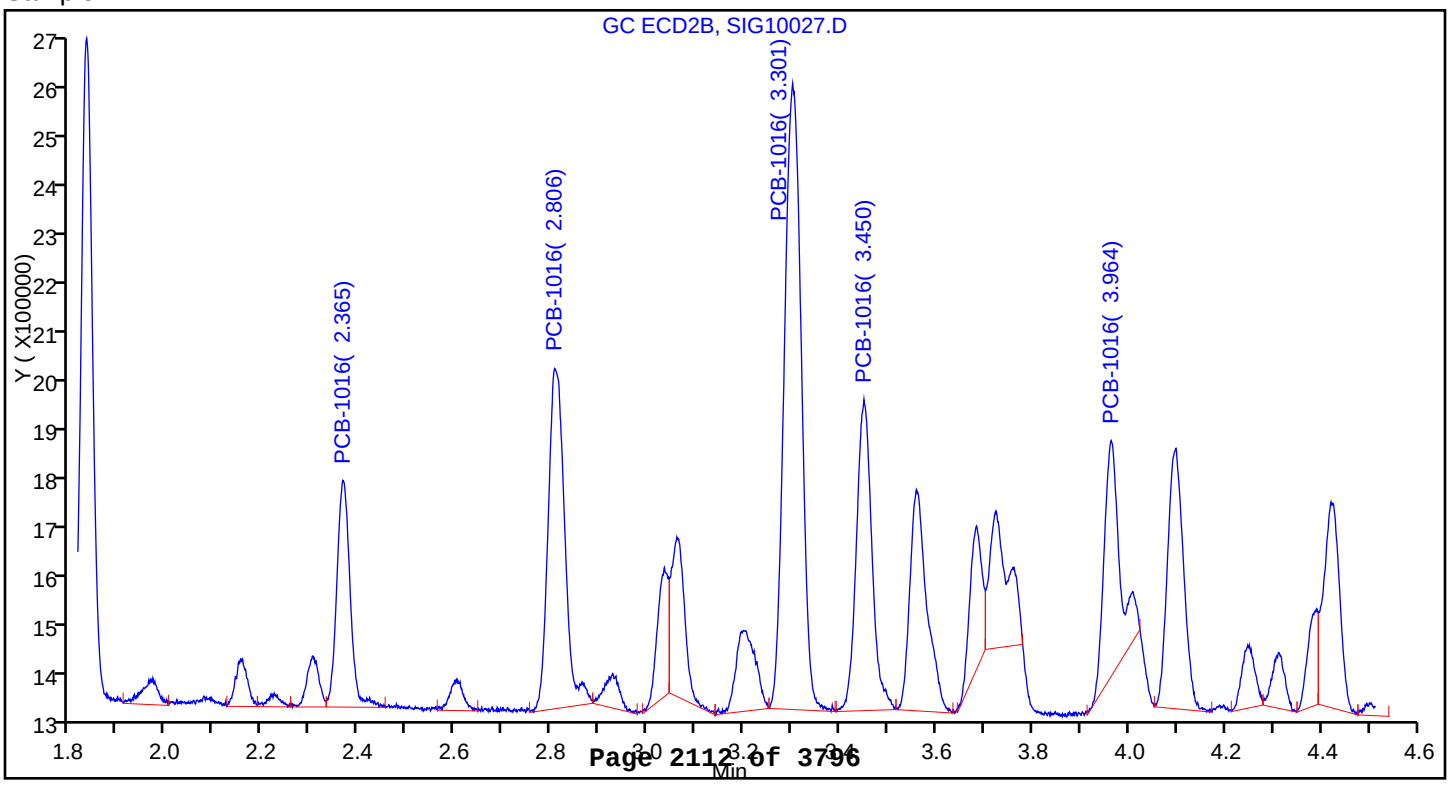
Injection Date:	14-Apr-2015 13:34:45	Instrument ID:	A2HP10
Lims ID:	mrl		
Client ID:			
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ecd2b

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 15-Apr-2015 10:01:48 Chrom Revision: 2.2 13-Mar-2015 11:20:44

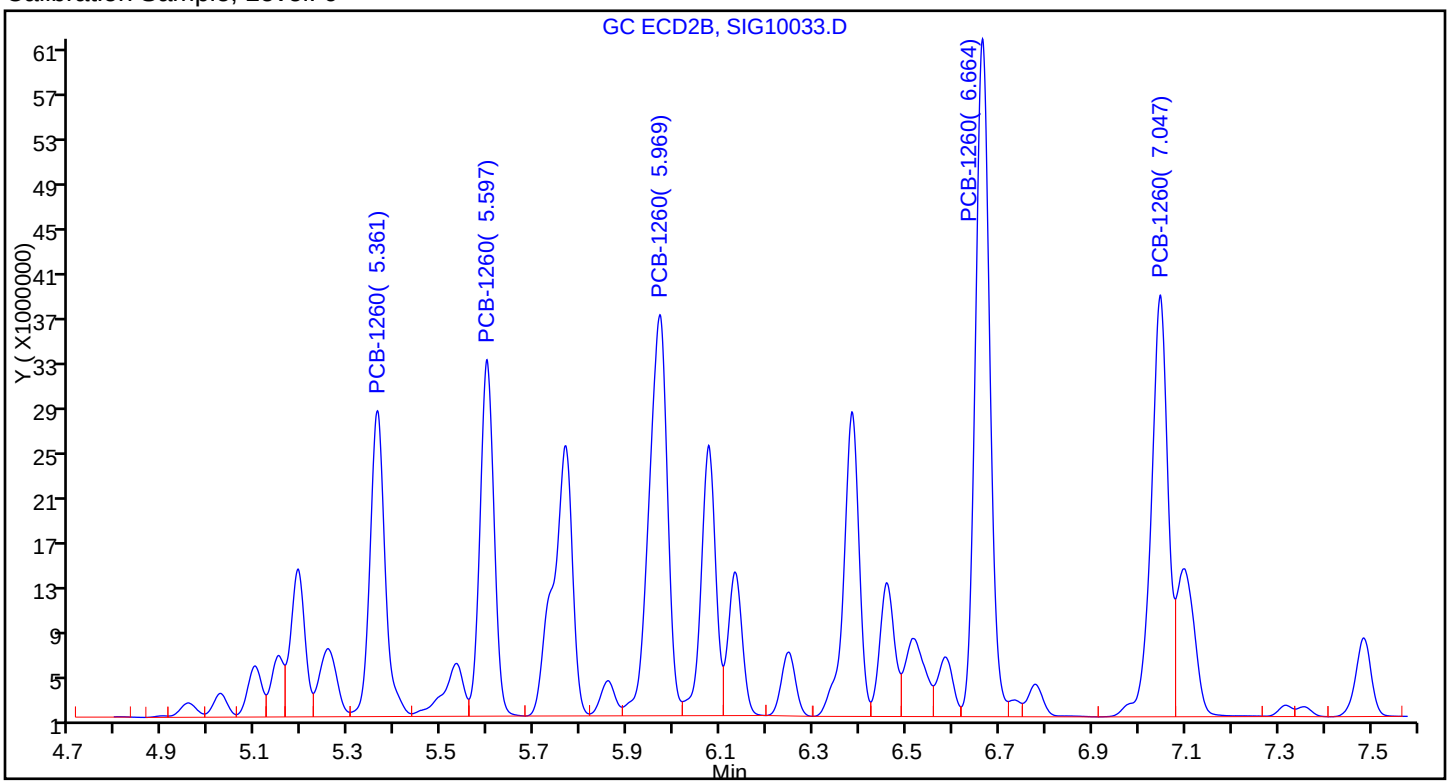
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10027.D

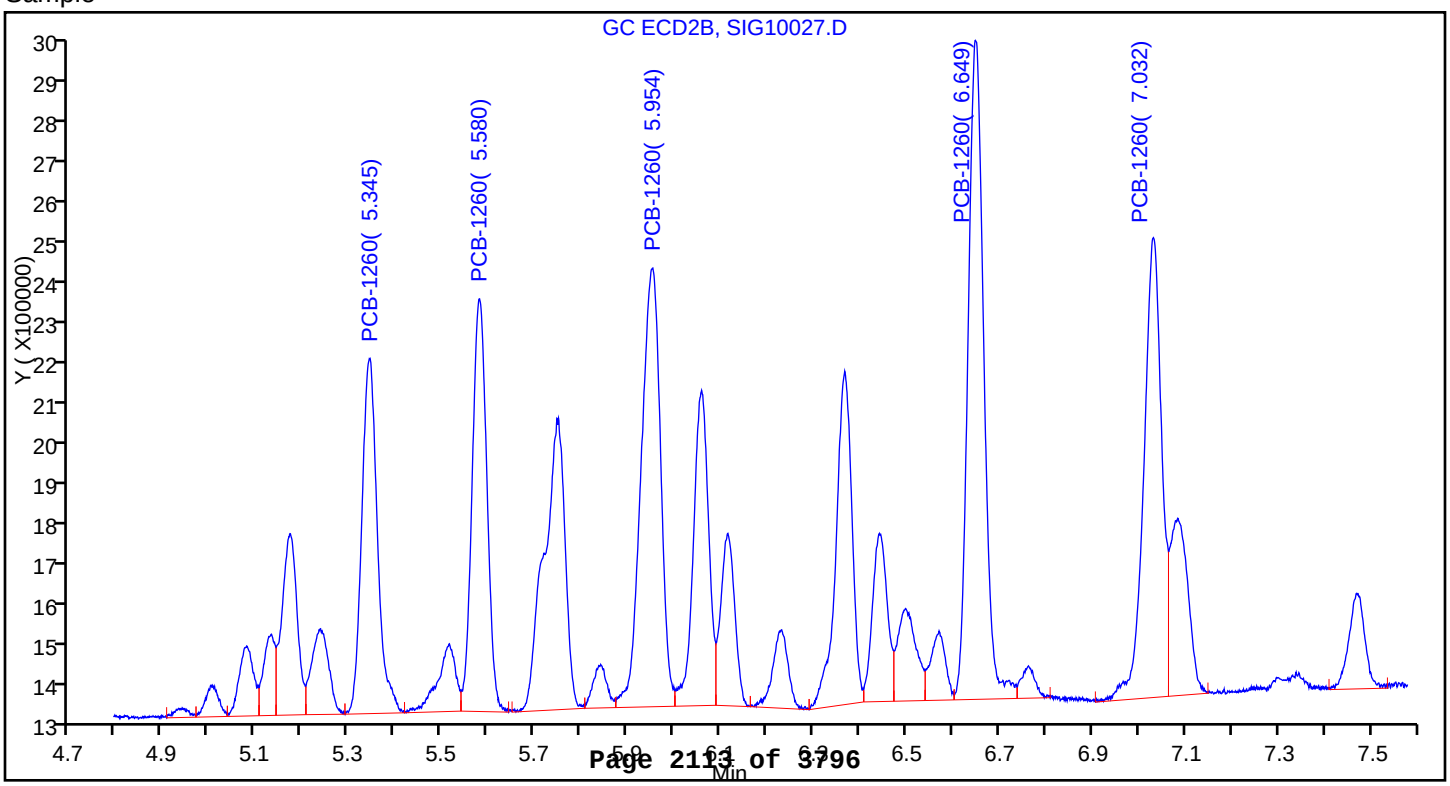
Injection Date:	14-Apr-2015 13:34:45	Instrument ID:	A2HP10
Lims ID:	mrl		
Client ID:			
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176376/10

Matrix: Water | Lab File ID: SIG10033.D

Analysis Method: 8082 | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/14/2015 15:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0539		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0552		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	119		50-150
2051-24-3	DCB Decachlorobiphenyl	120		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D
Lims ID: mrl
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 15:07:46 ALS Bottle#: 33 Worklist Smp#: 10
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-010
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:02:06 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:32:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
$ 2 Tetrachloro-m-xylene							
1	1.434	1.435	-0.001	2240626	0.002500	0.002979	
2	1.833	1.832	0.001	2076582	0.002500	0.002776	
						RPD = 7.03	
3 PCB-1221							
1		1.600				ND	
1		1.732					
1		1.768					
2		2.154					
2		2.303					
2		2.367					
4 PCB-1232							
1		1.768				ND	
1		2.106					
1		2.563					
1		2.700					
1		3.128					
2		2.366					
2		2.808					
2		3.301					
2		3.448					
2		4.096					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1		1.769				ND	
1		2.107					
1		2.565					
1		2.701					
1		3.128					
2		2.367					
2		2.810					
2		3.302					
2		3.449					
2		4.097					
6 PCB-1016							
1	1.769	1.770	-0.001	694655	0.0500	0.0539	
1	2.105	2.107	-0.002	1299050	0.0500	0.0557	
1	2.564	2.567	-0.003	2677538	0.0500	0.0547	
1	2.703	2.702	0.001	1159979	0.0500	0.0529	
1	3.128	3.129	-0.001	1160968	0.0500	0.0526	
		Average of Peak Amounts =				0.0539	
2	2.366	2.367	-0.001	844979	0.0500	0.0589	
2	2.807	2.809	-0.002	1600699	0.0500	0.0585	
2	3.301	3.302	-0.001	2932677	0.0500	0.0539	
2	3.449	3.449	0.000	1353732	0.0500	0.0552	
2	3.964	3.964	0.000	1170920	0.0500	0.0596	
		Average of Peak Amounts =				0.0572	
						RPD = 5.92	
7 PCB-1248							
1		2.105				ND	
1		2.563					
1		3.126					
1		3.757					
1		4.220					
2		2.808					
2		3.300					
2		4.096					
2		4.428					
2		5.129					
8 PCB-1254							
1		3.526				ND	
1		3.809					
1		4.219					
1		4.519					
1		5.013					
2		4.422					
2		4.641					
2		5.129					
2		5.381					
2		5.954					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1		4.418				ND	
1		4.721					
1		5.140					
1		5.734					
1		6.073					
2		5.579					
2		6.056					
2		6.366					
2		6.648					
2		7.028					
10 PCB-1260							
1	4.419	4.422	-0.003	1632220	0.0500	0.0543	
1	4.722	4.722	0.000	2936627	0.0500	0.0550	
1	5.014	5.013	0.001	2828712	0.0500	0.0565	
1	5.737	5.736	0.001	3842259	0.0500	0.0543	
1	6.027	6.026	0.001	1952580	0.0500	0.0557	
		Average of Peak Amounts =				0.0552	
2	5.343	5.343	0.000	1992358	0.0500	0.0553	
2	5.581	5.580	0.001	2168732	0.0500	0.0571	
2	5.951	5.952	-0.001	3102861	0.0500	0.0563	
2	6.647	6.648	-0.001	3793907	0.0500	0.0543	
2	7.030	7.031	-0.001	2992456	0.0500	0.0586	
		Average of Peak Amounts =				0.0563	
						RPD = 2.05	
11 PCB-1268							
1		6.073				ND	
1		6.112					
1		6.316					
1		6.701					
1		7.003					
2		7.026					
2		7.076					
2		7.341					
2		7.660					
2		8.003					
$ 12 DCB Decachlorobiphenyl							
1	7.199	7.202	-0.003	1764614	0.002500	0.002988	
2	8.274	8.274	0.000	2090102	0.002500	0.003239	
						RPD = 8.08	

Reagents:

SG1660@.05PPM_00012 Amount Added: 1.00 Units: mL

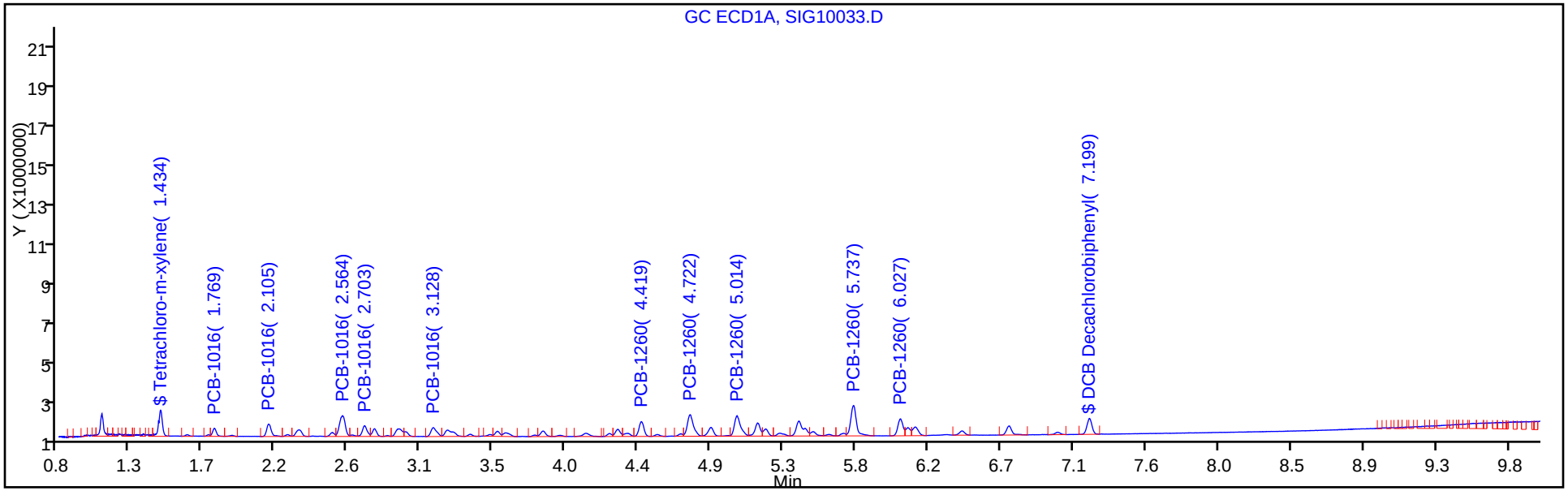
Report Date: 15-Apr-2015 10:02:17 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

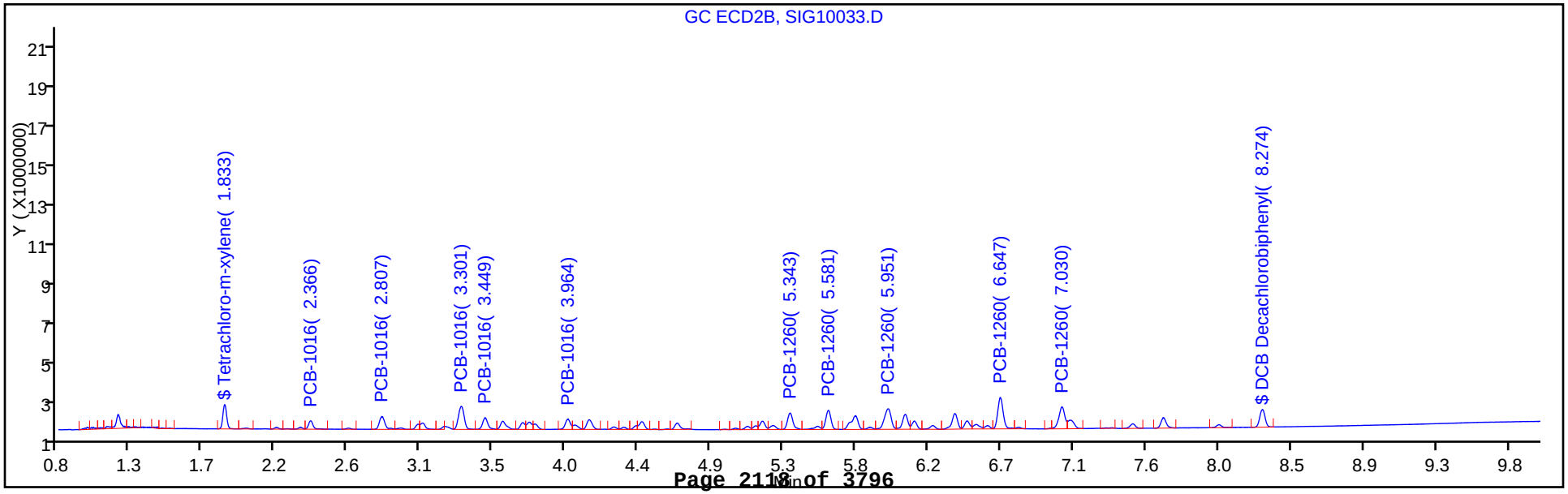
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D

Injection Date:	14-Apr-2015 15:07:46	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	mrl			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 15-Apr-2015 10:02:18 Chrom Revision: 2.2 13-Mar-2015 11:20:44

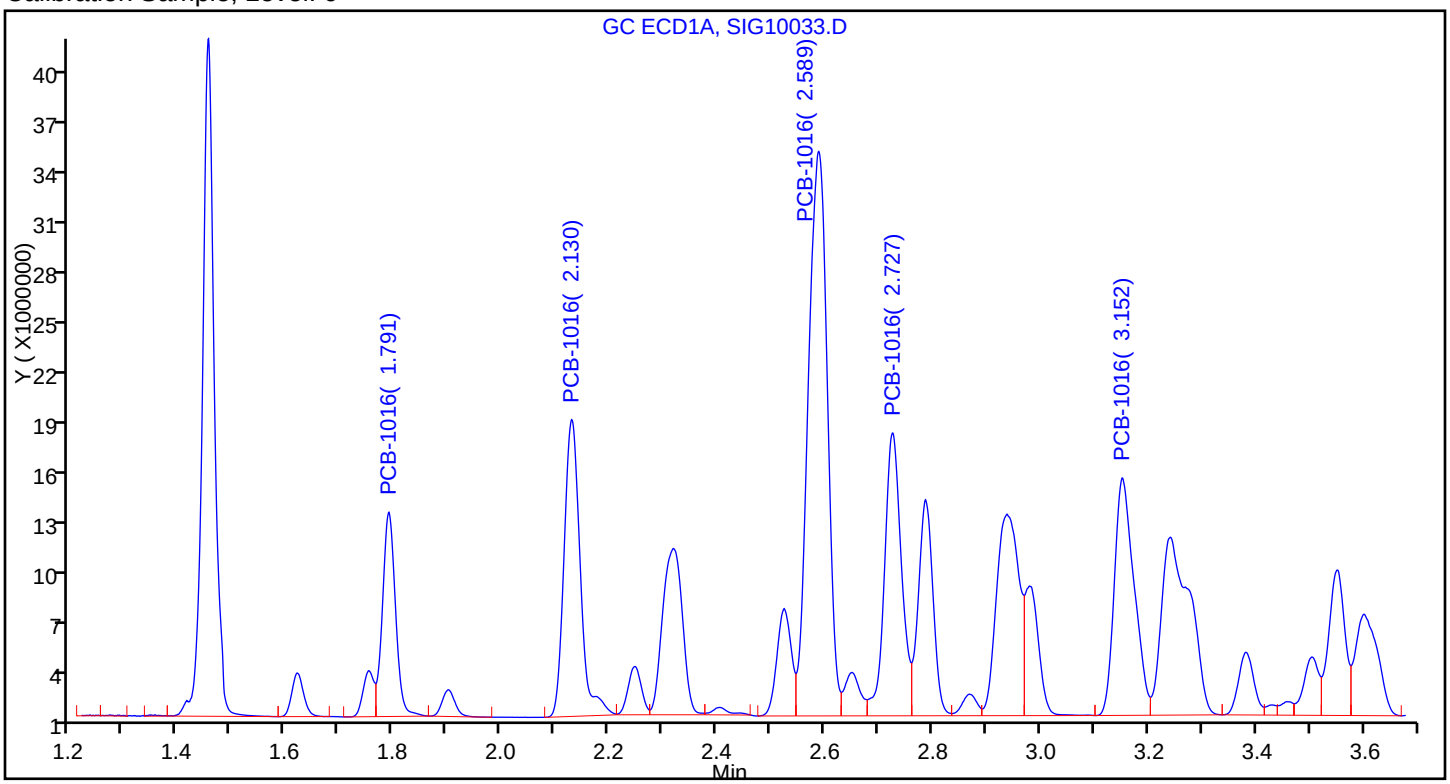
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D

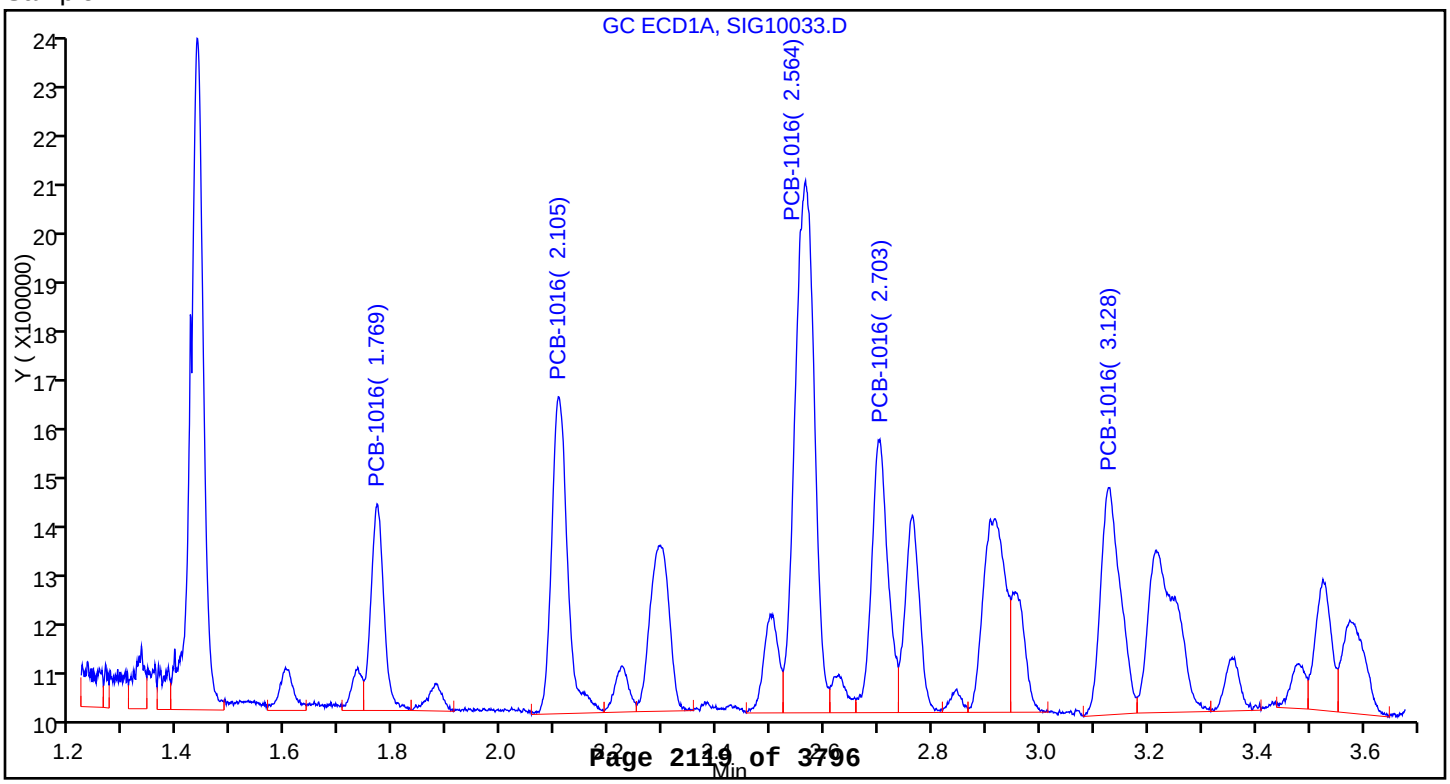
Injection Date:	14-Apr-2015 15:07:46	Instrument ID:	A2HP10		
Lims ID:	mrl				
Client ID:					
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	10
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	PCB10	Limit Group:	GC 8082A ICAL		
Column:		Detector	GC ECD1A		

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 15-Apr-2015 10:02:18 Chrom Revision: 2.2 13-Mar-2015 11:20:44

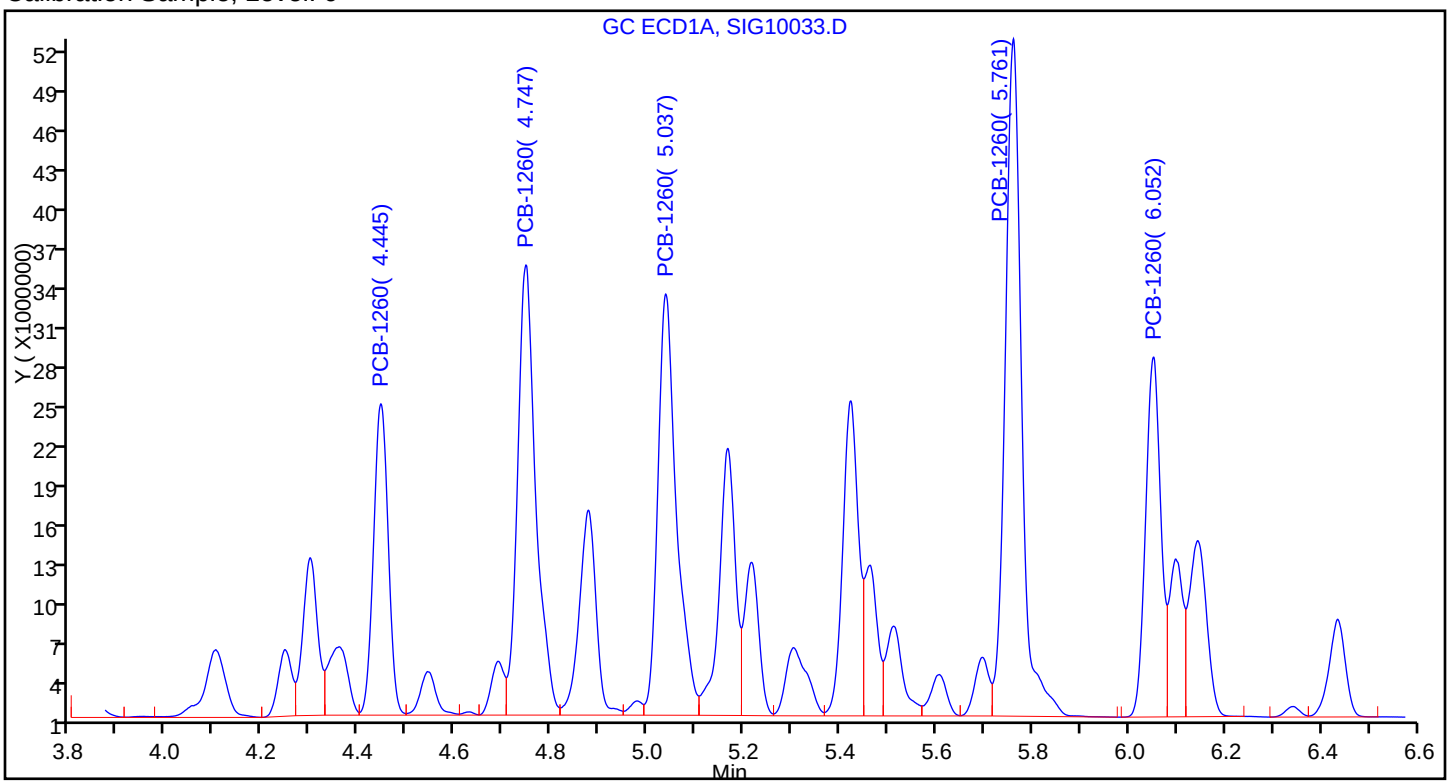
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D

Injection Date:	14-Apr-2015 15:07:46	Instrument ID:	A2HP10
Lims ID:	mrl		
Client ID:			
Operator ID:		ALS Bottle#:	33 Worklist Smp#: 10
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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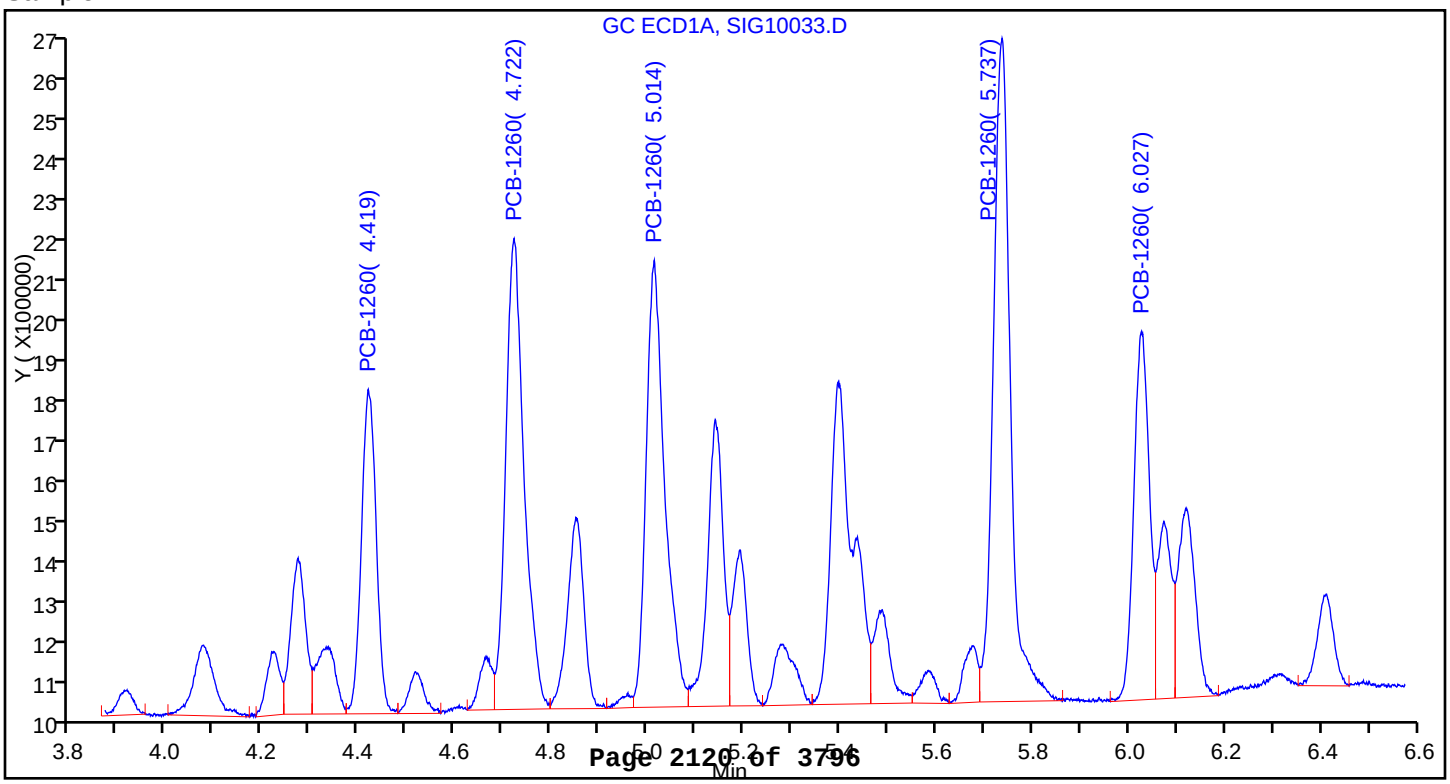


FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-176376/10

Matrix: Water | Lab File ID: SIG10033.D

Analysis Method: 8082 | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/14/2015 15:07

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 176376 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0572		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0563		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		50-150
2051-24-3	DCB Decachlorobiphenyl	130		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D
Lims ID: mrl
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 15:07:46 ALS Bottle#: 33 Worklist Smp#: 10
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042548-010
Operator ID: Instrument ID: A2HP10

Method: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\PCB10.m
Limit Group: GC 8082A ICAL
Last Update: 15-Apr-2015 10:02:06 Calib Date: 30-Mar-2015 23:10:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP10\20150330-42050.b\SIG10033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: grantk Date: 15-Apr-2015 07:32:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
$ 2 Tetrachloro-m-xylene							
1	1.434	1.435	-0.001	2240626	0.002500	0.002979	
2	1.833	1.832	0.001	2076582	0.002500	0.002776	
						RPD = 7.03	
3 PCB-1221							
1		1.600				ND	
1		1.732					
1		1.768					
2		2.154					
2		2.303					
2		2.367					
4 PCB-1232							
1		1.768				ND	
1		2.106					
1		2.563					
1		2.700					
1		3.128					
2		2.366					
2		2.808					
2		3.301					
2		3.448					
2		4.096					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 PCB-1242							
1		1.769				ND	
1		2.107					
1		2.565					
1		2.701					
1		3.128					
2		2.367					
2		2.810					
2		3.302					
2		3.449					
2		4.097					
6 PCB-1016							
1	1.769	1.770	-0.001	694655	0.0500	0.0539	
1	2.105	2.107	-0.002	1299050	0.0500	0.0557	
1	2.564	2.567	-0.003	2677538	0.0500	0.0547	
1	2.703	2.702	0.001	1159979	0.0500	0.0529	
1	3.128	3.129	-0.001	1160968	0.0500	0.0526	
		Average of Peak Amounts =				0.0539	
2	2.366	2.367	-0.001	844979	0.0500	0.0589	
2	2.807	2.809	-0.002	1600699	0.0500	0.0585	
2	3.301	3.302	-0.001	2932677	0.0500	0.0539	
2	3.449	3.449	0.000	1353732	0.0500	0.0552	
2	3.964	3.964	0.000	1170920	0.0500	0.0596	
		Average of Peak Amounts =				0.0572	
						RPD = 5.92	
7 PCB-1248							
1		2.105				ND	
1		2.563					
1		3.126					
1		3.757					
1		4.220					
2		2.808					
2		3.300					
2		4.096					
2		4.428					
2		5.129					
8 PCB-1254							
1		3.526				ND	
1		3.809					
1		4.219					
1		4.519					
1		5.013					
2		4.422					
2		4.641					
2		5.129					
2		5.381					
2		5.954					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1		4.418				ND	
1		4.721					
1		5.140					
1		5.734					
1		6.073					
2		5.579					
2		6.056					
2		6.366					
2		6.648					
2		7.028					
10 PCB-1260							
1	4.419	4.422	-0.003	1632220	0.0500	0.0543	
1	4.722	4.722	0.000	2936627	0.0500	0.0550	
1	5.014	5.013	0.001	2828712	0.0500	0.0565	
1	5.737	5.736	0.001	3842259	0.0500	0.0543	
1	6.027	6.026	0.001	1952580	0.0500	0.0557	
		Average of Peak Amounts =				0.0552	
2	5.343	5.343	0.000	1992358	0.0500	0.0553	
2	5.581	5.580	0.001	2168732	0.0500	0.0571	
2	5.951	5.952	-0.001	3102861	0.0500	0.0563	
2	6.647	6.648	-0.001	3793907	0.0500	0.0543	
2	7.030	7.031	-0.001	2992456	0.0500	0.0586	
		Average of Peak Amounts =				0.0563	
						RPD = 2.05	
11 PCB-1268							
1		6.073				ND	
1		6.112					
1		6.316					
1		6.701					
1		7.003					
2		7.026					
2		7.076					
2		7.341					
2		7.660					
2		8.003					
$ 12 DCB Decachlorobiphenyl							
1	7.199	7.202	-0.003	1764614	0.002500	0.002988	
2	8.274	8.274	0.000	2090102	0.002500	0.003239	
						RPD = 8.08	

Reagents:

SG1660@.05PPM_00012 Amount Added: 1.00 Units: mL

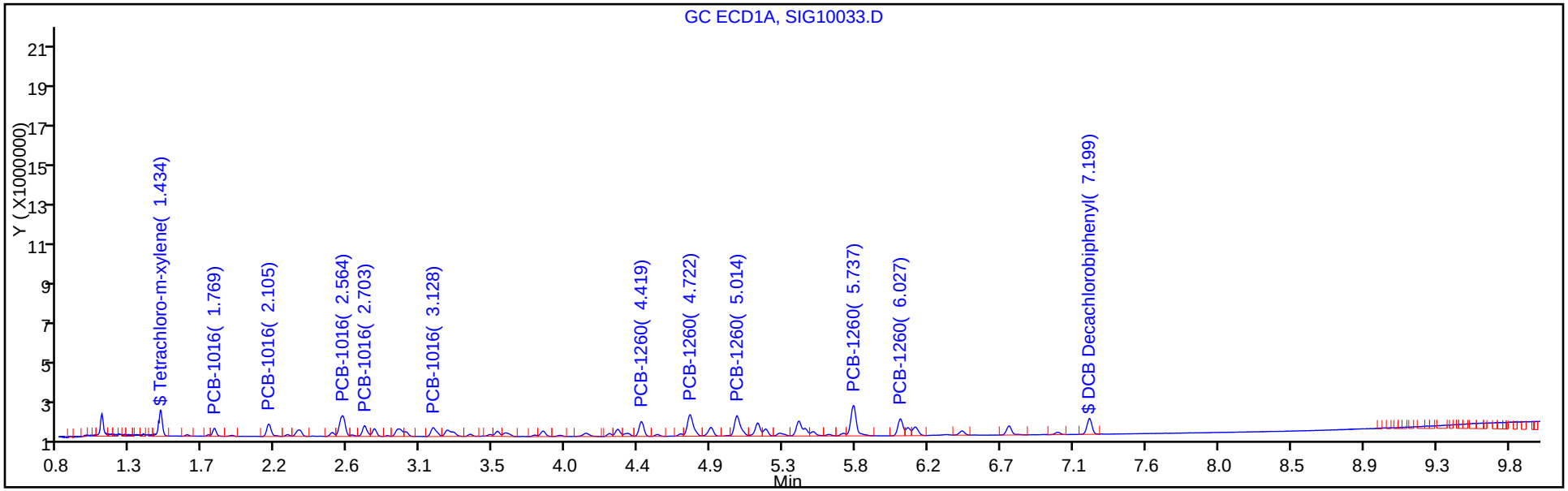
Report Date: 15-Apr-2015 10:02:18 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

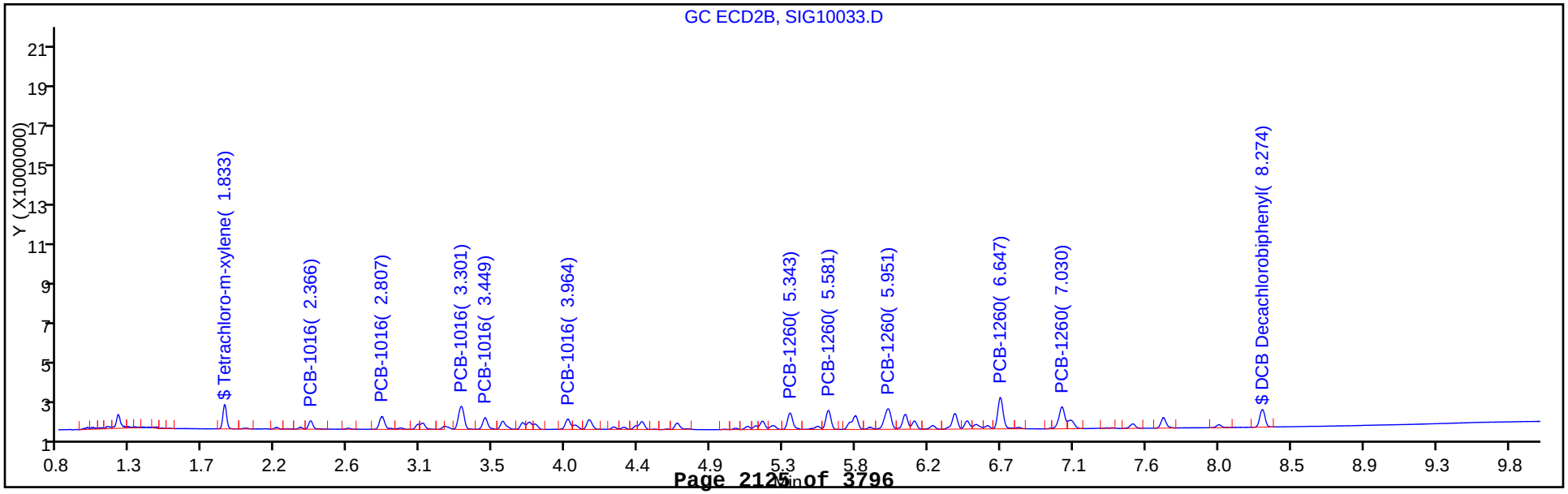
Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D

Injection Date:	14-Apr-2015 15:07:46	Instrument ID:	A2HP10	Operator ID:	
Lims ID:	mrl			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB10	Limit Group:	GC 8082A ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 15-Apr-2015 10:02:19 Chrom Revision: 2.2 13-Mar-2015 11:20:44

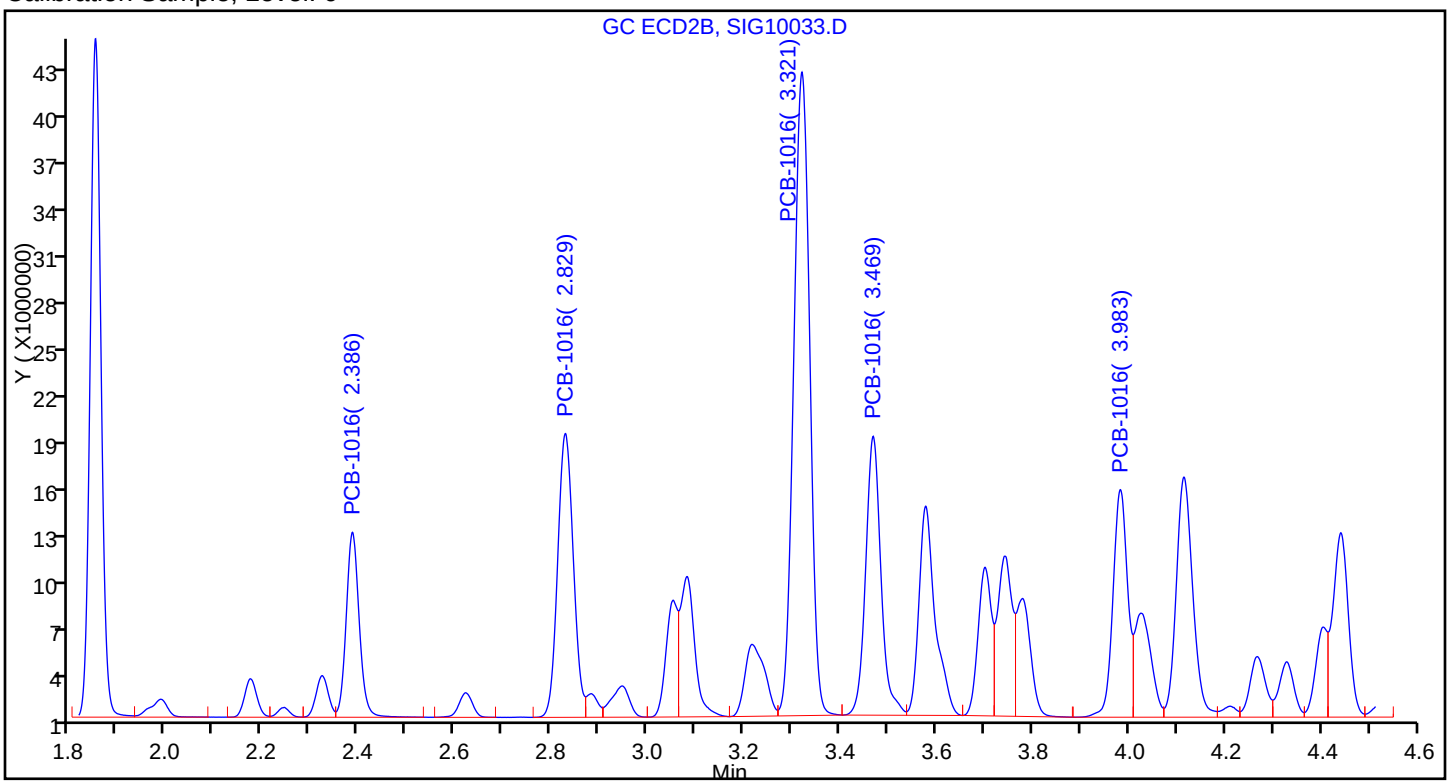
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D

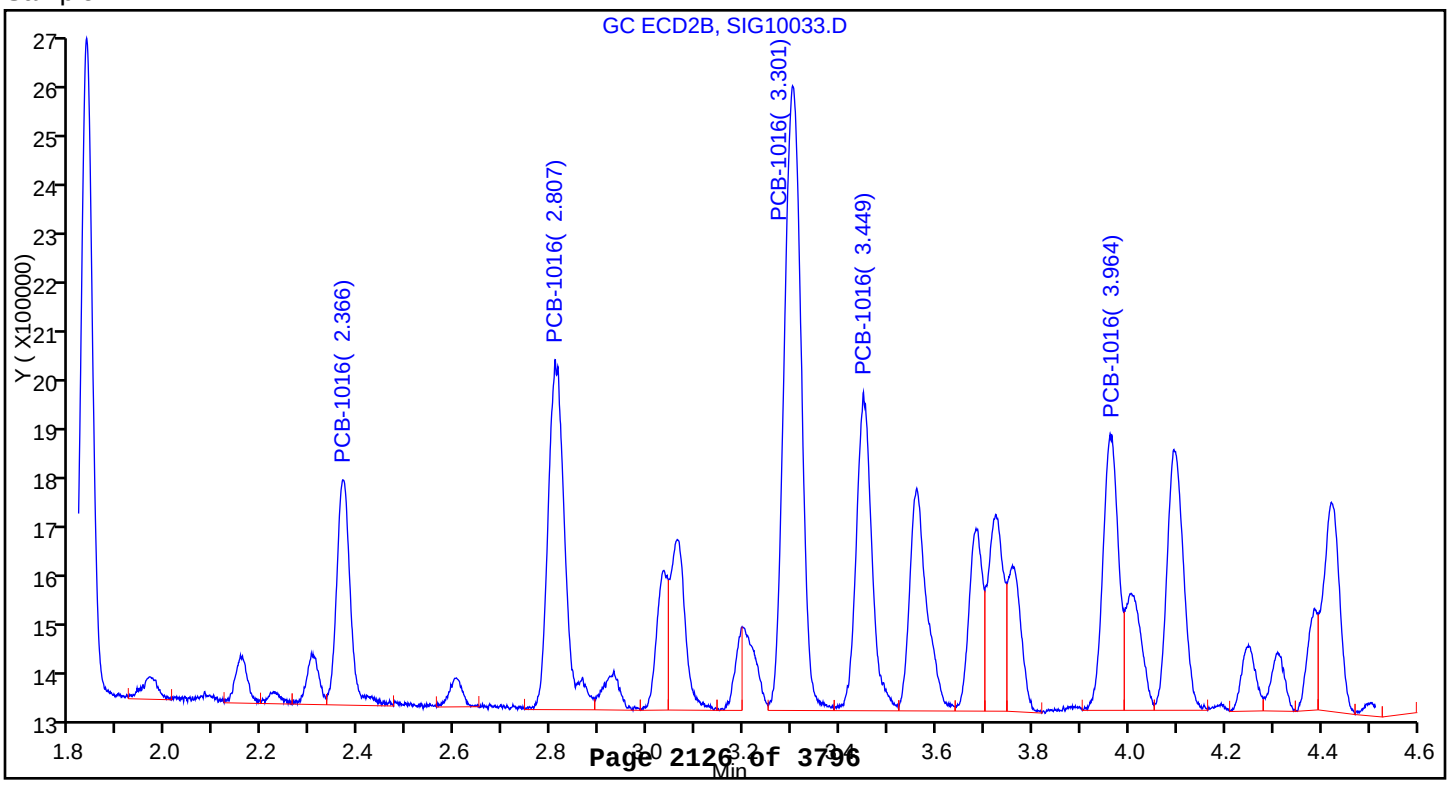
Injection Date:	14-Apr-2015 15:07:46	Instrument ID:	A2HP10		
Lims ID:	mrl				
Client ID:					
Operator ID:		ALS Bottle#:	33	Worklist Smp#:	10
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	PCB10	Limit Group:	GC 8082A ICAL		
Column:		Detector	GC ecd2b		

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 15-Apr-2015 10:02:19 Chrom Revision: 2.2 13-Mar-2015 11:20:44

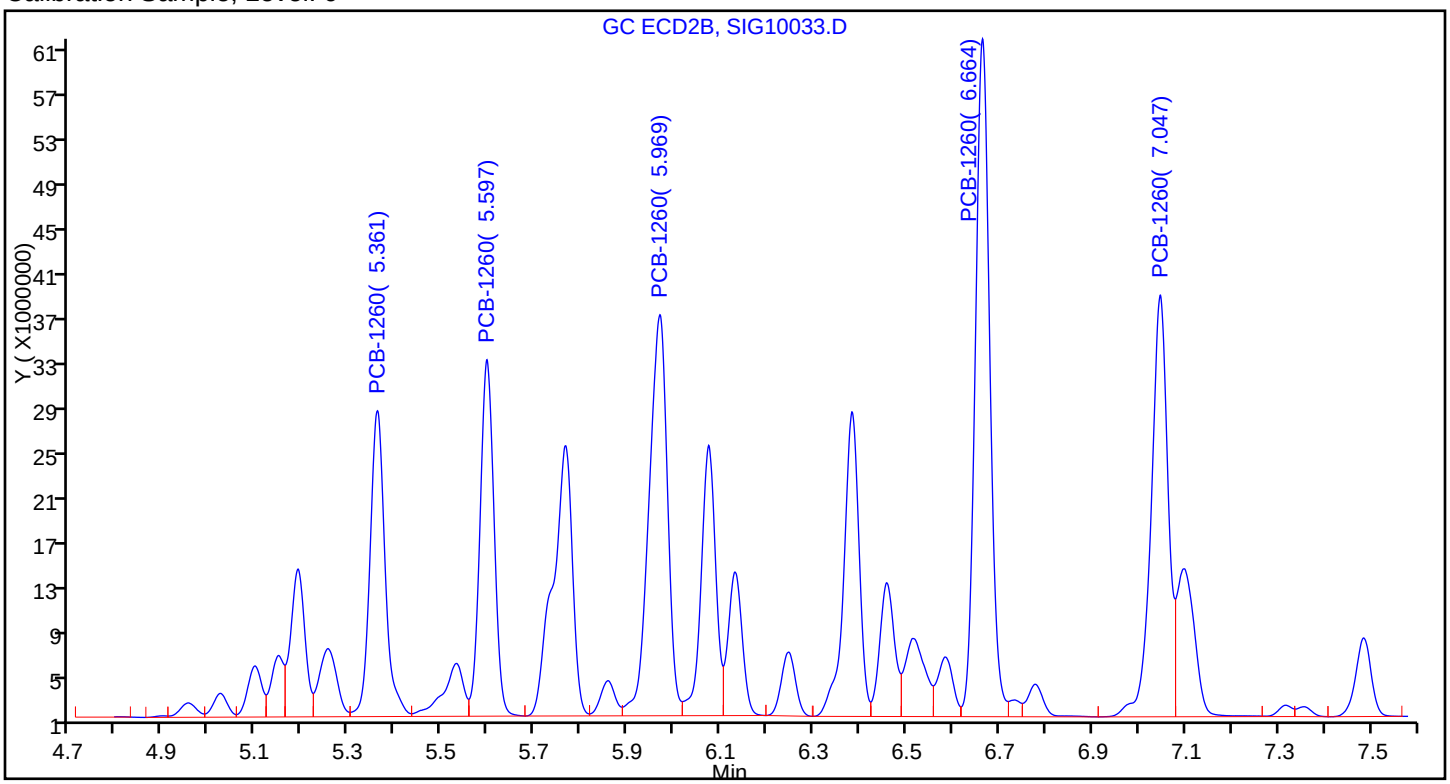
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP10\20150414-42548.b\SIG10033.D

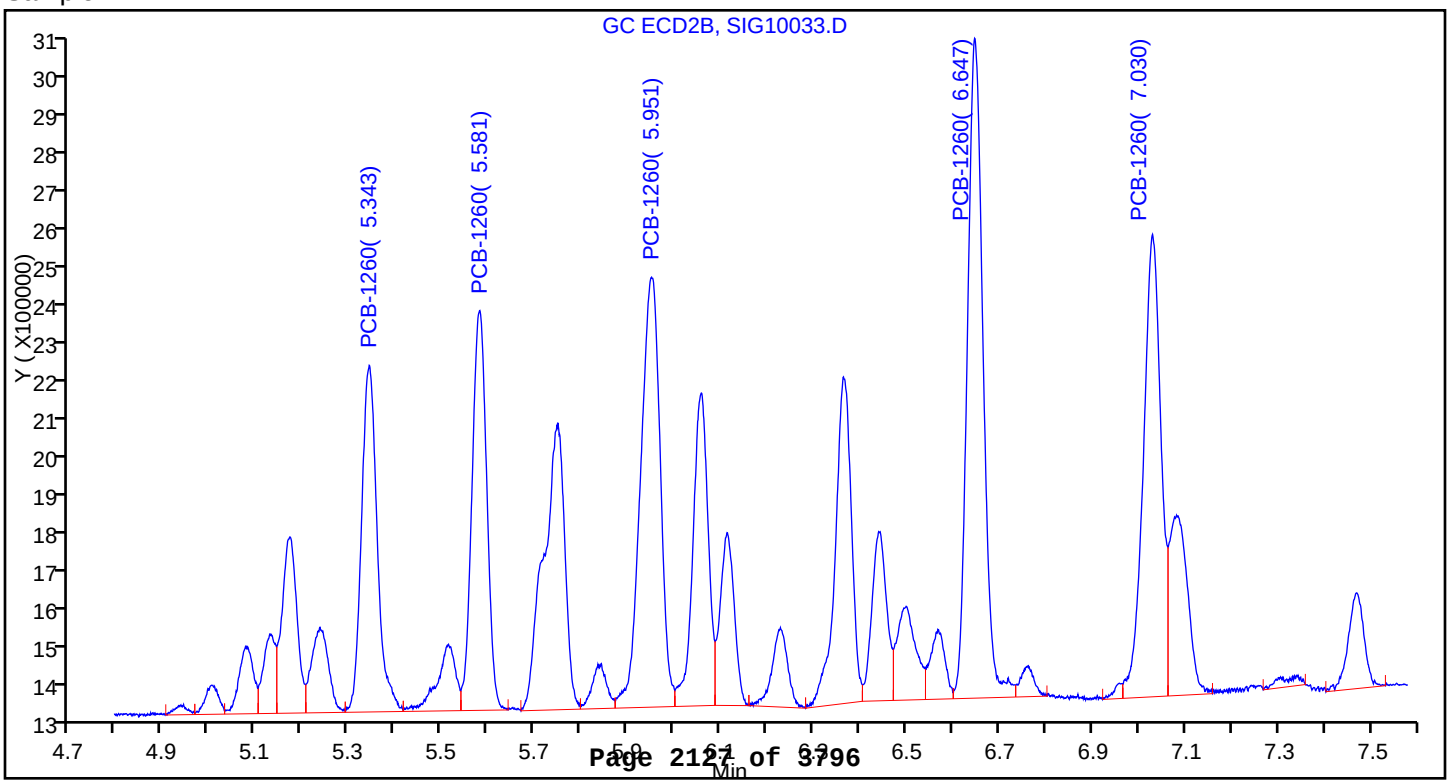
Injection Date:	14-Apr-2015 15:07:46	Instrument ID:	A2HP10
Lims ID:	mrl		
Client ID:			
Operator ID:		ALS Bottle#:	33 Worklist Smp#: 10
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB10	Limit Group:	GC 8082A ICAL
Column:		Detector	GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP10 Start Date: 03/30/2015 15:41

Analysis Batch Number: 174339 End Date: 03/31/2015 01:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-174339/4 IC		03/30/2015 15:41	1	SIG10004.D	CLP-1 0.53(mm)
STD005 240-174339/4 IC		03/30/2015 15:41	1	SIG10004.D	CLP-2 0.53(mm)
STD01 240-174339/5 IC		03/30/2015 15:57	1	SIG10005.D	CLP-1 0.53(mm)
STD01 240-174339/5 IC		03/30/2015 15:57	1	SIG10005.D	CLP-2 0.53(mm)
STD02 240-174339/6 IC		03/30/2015 16:12	1	SIG10006.D	CLP-1 0.53(mm)
STD02 240-174339/6 IC		03/30/2015 16:12	1	SIG10006.D	CLP-2 0.53(mm)
STD05 240-174339/7 IC		03/30/2015 16:27	1	SIG10007.D	CLP-1 0.53(mm)
STD05 240-174339/7 IC		03/30/2015 16:27	1	SIG10007.D	CLP-2 0.53(mm)
STD1 240-174339/8 IC		03/30/2015 16:43	1	SIG10008.D	CLP-1 0.53(mm)
STD1 240-174339/8 IC		03/30/2015 16:43	1	SIG10008.D	CLP-2 0.53(mm)
STD2 240-174339/9 IC		03/30/2015 16:58	1	SIG10009.D	CLP-1 0.53(mm)
STD2 240-174339/9 IC		03/30/2015 16:58	1	SIG10009.D	CLP-2 0.53(mm)
STD005 240-174339/10 IC		03/30/2015 17:14	1	SIG10010.D	CLP-1 0.53(mm)
STD005 240-174339/10 IC		03/30/2015 17:14	1	SIG10010.D	CLP-2 0.53(mm)
STD01 240-174339/11 IC		03/30/2015 17:29	1	SIG10011.D	CLP-1 0.53(mm)
STD01 240-174339/11 IC		03/30/2015 17:29	1	SIG10011.D	CLP-2 0.53(mm)
STD02 240-174339/12 IC		03/30/2015 17:45	1	SIG10012.D	CLP-1 0.53(mm)
STD02 240-174339/12 IC		03/30/2015 17:45	1	SIG10012.D	CLP-2 0.53(mm)
STD05 240-174339/13 IC		03/30/2015 18:00	1	SIG10013.D	CLP-1 0.53(mm)
STD05 240-174339/13 IC		03/30/2015 18:00	1	SIG10013.D	CLP-2 0.53(mm)
STD1 240-174339/14 IC		03/30/2015 18:16	1	SIG10014.D	CLP-1 0.53(mm)
STD1 240-174339/14 IC		03/30/2015 18:16	1	SIG10014.D	CLP-2 0.53(mm)
STD2 240-174339/15 IC		03/30/2015 18:31	1	SIG10015.D	CLP-1 0.53(mm)
STD2 240-174339/15 IC		03/30/2015 18:31	1	SIG10015.D	CLP-2 0.53(mm)
STD005 240-174339/16 IC		03/30/2015 18:47	1	SIG10016.D	CLP-1 0.53(mm)
STD005 240-174339/16 IC		03/30/2015 18:47	1	SIG10016.D	CLP-2 0.53(mm)
STD01 240-174339/17 IC		03/30/2015 19:02	1	SIG10017.D	CLP-1 0.53(mm)
STD01 240-174339/17 IC		03/30/2015 19:02	1	SIG10017.D	CLP-2 0.53(mm)
STD02 240-174339/18 IC		03/30/2015 19:18	1	SIG10018.D	CLP-1 0.53(mm)
STD02 240-174339/18 IC		03/30/2015 19:18	1	SIG10018.D	CLP-2 0.53(mm)
STD05 240-174339/19 IC		03/30/2015 19:33	1	SIG10019.D	CLP-1 0.53(mm)
STD05 240-174339/19 IC		03/30/2015 19:33	1	SIG10019.D	CLP-2 0.53(mm)
STD1 240-174339/20 IC		03/30/2015 19:49	1	SIG10020.D	CLP-1 0.53(mm)

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PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP10 Start Date: 03/30/2015 15:41

Analysis Batch Number: 174339 End Date: 03/31/2015 01:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-174339/20 IC		03/30/2015 19:49	1	SIG10020.D	CLP-2 0.53(mm)
STD2 240-174339/21 IC		03/30/2015 20:05	1	SIG10021.D	CLP-1 0.53(mm)
STD2 240-174339/21 IC		03/30/2015 20:05	1	SIG10021.D	CLP-2 0.53(mm)
STD005 240-174339/22 IC		03/30/2015 20:20	1	SIG10022.D	CLP-1 0.53(mm)
STD005 240-174339/22 IC		03/30/2015 20:20	1	SIG10022.D	CLP-2 0.53(mm)
STD01 240-174339/23 IC		03/30/2015 20:36	1	SIG10023.D	CLP-1 0.53(mm)
STD01 240-174339/23 IC		03/30/2015 20:36	1	SIG10023.D	CLP-2 0.53(mm)
STD02 240-174339/24 IC		03/30/2015 20:51	1	SIG10024.D	CLP-1 0.53(mm)
STD02 240-174339/24 IC		03/30/2015 20:51	1	SIG10024.D	CLP-2 0.53(mm)
STD05 240-174339/25 IC		03/30/2015 21:07	1	SIG10025.D	CLP-1 0.53(mm)
STD05 240-174339/25 IC		03/30/2015 21:07	1	SIG10025.D	CLP-2 0.53(mm)
STD1 240-174339/26 IC		03/30/2015 21:22	1	SIG10026.D	CLP-1 0.53(mm)
STD1 240-174339/26 IC		03/30/2015 21:22	1	SIG10026.D	CLP-2 0.53(mm)
STD2 240-174339/27 IC		03/30/2015 21:38	1	SIG10027.D	CLP-1 0.53(mm)
STD2 240-174339/27 IC		03/30/2015 21:38	1	SIG10027.D	CLP-2 0.53(mm)
STD005 240-174339/28 IC		03/30/2015 21:53	1	SIG10028.D	CLP-1 0.53(mm)
STD005 240-174339/28 IC		03/30/2015 21:53	1	SIG10028.D	CLP-2 0.53(mm)
STD01 240-174339/29 IC		03/30/2015 22:09	1	SIG10029.D	CLP-1 0.53(mm)
STD01 240-174339/29 IC		03/30/2015 22:09	1	SIG10029.D	CLP-2 0.53(mm)
STD02 240-174339/30 IC		03/30/2015 22:24	1	SIG10030.D	CLP-1 0.53(mm)
STD02 240-174339/30 IC		03/30/2015 22:24	1	SIG10030.D	CLP-2 0.53(mm)
STD05 240-174339/31 ICRT		03/30/2015 22:40	1	SIG10031.D	CLP-1 0.53(mm)
STD05 240-174339/31 ICRT		03/30/2015 22:40	1	SIG10031.D	CLP-2 0.53(mm)
STD1 240-174339/32 IC		03/30/2015 22:55	1	SIG10032.D	CLP-1 0.53(mm)
STD1 240-174339/32 IC		03/30/2015 22:55	1	SIG10032.D	CLP-2 0.53(mm)
STD2 240-174339/33 IC		03/30/2015 23:10	1	SIG10033.D	CLP-1 0.53(mm)
STD2 240-174339/33 IC		03/30/2015 23:10	1	SIG10033.D	CLP-2 0.53(mm)
ICV 240-174339/34		03/30/2015 23:26	1		CLP-1 0.53(mm)
ICV 240-174339/34		03/30/2015 23:26	1		CLP-2 0.53(mm)
ICV 240-174339/35		03/30/2015 23:41	1		CLP-1 0.53(mm)
ICV 240-174339/35		03/30/2015 23:41	1		CLP-2 0.53(mm)
ICV 240-174339/36		03/30/2015 23:57	1		CLP-1 0.53(mm)
ICV 240-174339/36		03/30/2015 23:57	1		CLP-2 0.53(mm)

8082

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP10 Start Date: 03/30/2015 15:41

Analysis Batch Number: 174339 End Date: 03/31/2015 01:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 240-174339/37		03/31/2015 00:12	1		CLP-1 0.53(mm)
ICV 240-174339/37		03/31/2015 00:12	1		CLP-2 0.53(mm)
ICV 240-174339/38		03/31/2015 00:28	1		CLP-1 0.53(mm)
ICV 240-174339/38		03/31/2015 00:28	1		CLP-2 0.53(mm)
ICV 240-174339/39		03/31/2015 00:43	1	SIG10039.D	CLP-1 0.53(mm)
ICV 240-174339/39		03/31/2015 00:43	1	SIG10039.D	CLP-2 0.53(mm)
ICV 240-174339/40		03/31/2015 00:59	1		CLP-1 0.53(mm)
ICV 240-174339/40		03/31/2015 00:59	1		CLP-2 0.53(mm)
ICV 240-174339/41		03/31/2015 01:14	1		CLP-1 0.53(mm)
ICV 240-174339/41		03/31/2015 01:14	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP10 Start Date: 04/14/2015 13:19

Analysis Batch Number: 176376 End Date: 04/14/2015 15:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-176376/3 CCVRT		04/14/2015 13:19	1	SIG10026.D	CLP-1 0.53(mm)
CCV 240-176376/3 CCVRT		04/14/2015 13:19	1	SIG10026.D	CLP-2 0.53(mm)
MRL 240-176376/4		04/14/2015 13:34	1	SIG10027.D	CLP-1 0.53(mm)
MRL 240-176376/4		04/14/2015 13:34	1	SIG10027.D	CLP-2 0.53(mm)
240-49236-3	079SB-0385-0001-SW	04/14/2015 14:05	1	SIG10029.D	CLP-1 0.53(mm)
240-49236-3	079SB-0385-0001-SW	04/14/2015 14:05	1	SIG10029.D	CLP-2 0.53(mm)
MB 240-176083/3-A		04/14/2015 14:21	1	SIG10030.D	CLP-1 0.53(mm)
MB 240-176083/3-A		04/14/2015 14:21	1	SIG10030.D	CLP-2 0.53(mm)
LCS 240-176083/4-A		04/14/2015 14:36	1	SIG10031.D	CLP-1 0.53(mm)
LCS 240-176083/4-A		04/14/2015 14:36	1	SIG10031.D	CLP-2 0.53(mm)
CCV 240-176376/9		04/14/2015 14:52	1	SIG10032.D	CLP-1 0.53(mm)
CCV 240-176376/9		04/14/2015 14:52	1	SIG10032.D	CLP-2 0.53(mm)
MRL 240-176376/10		04/14/2015 15:07	1	SIG10033.D	CLP-1 0.53(mm)
MRL 240-176376/10		04/14/2015 15:07	1	SIG10033.D	CLP-2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176083 Batch Start Date: 04/13/15 07:00 Batch Analyst: Coast, Chris

Batch Method: 3520C Batch End Date: 04/14/15 01:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	EX10PPMSPK 00016	EX2/.2SURRW 00053	AnalysisComment
240-49236-M-3	079SB-0385-0001-SW	3520C, 8082	T	1050 mL	5 mL	7		1 mL	assoc. w/ 176084
MB 240-176083/3		3520C, 8082		1000 mL	5 mL	7		1 mL	assoc. w/ 176084
LCS 240-176083/4		3520C, 8082		1000 mL	5 mL	7	0.5 mL	1 mL	

Batch Notes	
Acid used for Clean Up Reagent	1826637
Exchange Solvent Lot #	1864452
Na2SO4 Lot Number	1942692
pH Paper Lot Number	1385030
Prep Solvent Lot #	1943045
TCLP Fluid 1 ID	1943213

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8151 DOD

Herbicides (GC) by Method 8151A DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCPA1 #	DCPA2 #
079SB-0383-0001-ID W	240-49236-1	91 Q	82 Q
	MB 240-176663/5-A	94	72
	LCS 240-176663/6-A	88	90
079SB-0383-0001-ID W MS	240-49236-1 MS	81	78

	QC LIMITS
DCPA = 2,4-Dichlorophenylacetic acid	37-116

Column to be used to flag recovery values

FORM II 8151A

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCPA1 #	DCPA2 #
	MRL 240-177320/7	103	108
	MRL 240-177320/15	147	113

	QC LIMITS
DCPA = 2,4-Dichlorophenylacetic acid	37-116

Column to be used to flag recovery values

FORM II 8151A

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water (TCLP) Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCPA1 #	DCPA2 #
079SB-0384-0001-ID W	240-49236-2	97 M Q	99 Q

	QC LIMITS
DCPA = 2,4-Dichlorophenylacetic acid	37-116

Column to be used to flag recovery values

FORM II 8151A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1042113.D

Lab ID: LCS 240-176663/6-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2,4-D	0.0200	0.0132 J	66	35-136	
Silvex (2,4,5-TP)	0.00500	0.00346 J	69	46-112	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1042107.D

Lab ID: MRL 240-177320/7 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2,4-D	0.0200	0.0202 J	101	70-130	
2,4-D	0.0200	0.0219 J	109	70-130	
Silvex (2,4,5-TP)	0.00500	0.00497 J	99	70-130	
Silvex (2,4,5-TP)	0.00500	0.00471 J	94	70-130	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1042115.D

Lab ID: MRL 240-177320/15 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
2,4-D	0.0200	0.0231 J	115	70-130	
2,4-D	0.0200	0.0261 J	131	70-130	^
Silvex (2,4,5-TP)	0.00500	0.00555 J	111	70-130	
Silvex (2,4,5-TP)	0.00500	0.00562 J	112	70-130	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid (TCLP) Level: Low Lab File ID: P1042110.D

Lab ID: 240-49236-1 MS Client ID: 079SB-0383-0001-IDW MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
2,4-D	0.0200	0.0040 U	0.0141 J	71	54-114	
Silvex (2,4,5-TP)	0.00500	0.00020 U	0.00371 J	74	52-124	

Column to be used to flag recovery and RPD values

FORM III 8151A

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: MB 240-176663/5-A

Matrix: Water Date Extracted: 04/16/2015 08:24

Lab File ID:(1) P1042112.D Lab File ID:(2) P1042112.D

Date Analyzed:(1) 04/21/2015 22:05 Date Analyzed:(2) 04/21/2015 22:05

Instrument ID:(1) A2HP1 Instrument ID:(2) A2HP1

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SB-0383-0001-IDW	240-49236-1	04/21/2015 20:53	04/21/2015 20:53
079SB-0383-0001-IDW MS	240-49236-1 MS	04/21/2015 21:17	04/21/2015 21:17
079SB-0384-0001-IDW	240-49236-2	04/21/2015 21:41	04/21/2015 21:41
	LCS 240-176663/6-A	04/21/2015 22:29	04/21/2015 22:29

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD3 240-177103/9 Date Analyzed: 04/20/2015 15:38

Instrument ID: A2HP1 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P1042009.D Heated Purge: (Y/N) N

Calibration ID: 28027

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DCPA RT #		
INITIAL CALIBRATION SURROGATE				6.98		
UPPER LIMIT				7.00		
LOWER LIMIT				6.96		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD3 240-177103/9 ICRT		04/20/2015 15:38	P1042009.D	6.98		
ICV 240-177103/14		04/20/2015 17:37	P1042014.D	6.98		

DCPA = 2,4-Dichlorophenylacetic acid

DCPA RT Limit = ± 0.02 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8151A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: STD3 240-177103/9 Date Analyzed: 04/20/2015 15:38

Instrument ID: A2HP1 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1042009.D Heated Purge: (Y/N) N

Calibration ID: 28028

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DCPA RT #		
INITIAL CALIBRATION SURROGATE				7.69		
UPPER LIMIT				7.71		
LOWER LIMIT				7.67		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD3 240-177103/9 ICRT		04/20/2015 15:38	P1042009.D	7.69		
ICV 240-177103/14		04/20/2015 17:37	P1042014.D	7.69		

DCPA = 2,4-Dichlorophenylacetic acid

DCPA RT Limit = ± 0.02 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8151A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-177320/8 Date Analyzed: 04/21/2015 20:30

Instrument ID: A2HP1 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P1042108.D Heated Purge: (Y/N) N

Calibration ID: 28027

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DCPA RT #		
CONTINUING CALIBRATION SURROGATE				6.98		
UPPER LIMIT				7.00		
LOWER LIMIT				6.96		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177320/8 CCVRT		04/21/2015 20:30	P1042108.D	6.98		
240-49236-1	079SB-0383-0001-IDW	04/21/2015 20:53	P1042109.D	6.98		
240-49236-1 MS	079SB-0383-0001-IDW MS	04/21/2015 21:17	P1042110.D	6.98		
240-49236-2	079SB-0384-0001-IDW	04/21/2015 21:41	P1042111.D	6.97		
MB 240-176663/5-A		04/21/2015 22:05	P1042112.D	6.97		
LCS 240-176663/6-A		04/21/2015 22:29	P1042113.D	6.98		
CCV 240-177320/14		04/21/2015 22:52	P1042114.D	6.98		

DCPA = 2,4-Dichlorophenylacetic acid

DCPA RT Limit = ± 0.02 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8151A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 240-177320/8 Date Analyzed: 04/21/2015 20:30

Instrument ID: A2HP1 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1042108.D Heated Purge: (Y/N) N

Calibration ID: 28028

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DCPA RT #		
CONTINUING CALIBRATION SURROGATE				7.69		
UPPER LIMIT				7.71		
LOWER LIMIT				7.67		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177320/8 CCVRT		04/21/2015 20:30	P1042108.D	7.69		
240-49236-1	079SB-0383-0001-IDW	04/21/2015 20:53	P1042109.D	7.69		
240-49236-1 MS	079SB-0383-0001-IDW MS	04/21/2015 21:17	P1042110.D	7.69		
240-49236-2	079SB-0384-0001-IDW	04/21/2015 21:41	P1042111.D	7.69		
MB 240-176663/5-A		04/21/2015 22:05	P1042112.D	7.69		
LCS 240-176663/6-A		04/21/2015 22:29	P1042113.D	7.69		
CCV 240-177320/14		04/21/2015 22:52	P1042114.D	7.69		

DCPA = 2,4-Dichlorophenylacetic acid

DCPA RT Limit = ± 0.02 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8151A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW MS Lab Sample ID: 240-49236-1 MS

Instrument ID (1): A2HP1 Instrument ID (2): A2HP1

Date Analyzed (1): 04/21/2015 21:17 Date Analyzed (2): 04/21/2015 21:17

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		8.19	8.17	8.21	0.0141		37.9
	2		9.01	8.99	9.03	0.0207		
Silvex (2,4,5-TP)	1		9.06	9.05	9.09	0.00371		13.1
	2		9.96	9.94	9.98	0.00423		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-176663/6-A

Instrument ID (1): A2HP1 Instrument ID (2): A2HP1

Date Analyzed (1): 04/21/2015 22:29 Date Analyzed (2): 04/21/2015 22:29

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		8.19	8.17	8.21	0.0132		53.9
	2		9.01	8.99	9.03	0.0230		
Silvex (2,4,5-TP)	1		9.06	9.05	9.09	0.00346		6.4
	2		9.96	9.94	9.98	0.00369		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW | Lab Sample ID: 240-49236-1

Matrix: Solid (TCLP) | Lab File ID: P1042109.D

Analysis Method: 8151A | Date Collected: 04/10/2015 08:00

Extraction Method: 8151A | Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) | Date Analyzed: 04/21/2015 20:53

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	0.0040	U	0.50	0.0040	0.0019
93-72-1	Silvex (2,4,5-TP)	0.00020	U	0.10	0.00020	0.00027

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	91	Q	37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042109.D
Lims ID: 240-49236-B-1-F Lab Sample ID: 240-49236-1
Client ID: 079SB-0383-0001-IDW
Sample Type: Client
Inject. Date: 21-Apr-2015 20:53:50 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-009
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
5 Dalapon						
1	1.258	1.273	-0.015	227818928	1.30	E
2	1.419	1.439	-0.020	589391249	0.9013	E
					RPD = 35.87	
$ 4 2,4-Dichlorophenylacetic acid						
1	6.975	6.976	-0.001	18923499	0.1813	
2	7.686	7.689	-0.003	52058363	0.1635	
					RPD = 10.34	
6 Dicamba						
1		7.142			ND	
2		7.855				
10 MCPP						
1		7.423			ND	
2		8.038				
9 MCPA						
1		7.585			ND	
2		8.292				
7 Dichlorprop						
1		7.955			ND	
2		8.657				
2 2,4-D						
1		8.192			ND	
2		9.013				
11 Pentachlorophenol						
1		8.282			ND	
2		9.315				
12 Silvex (2,4,5-TP)						
1		9.065			ND	
2		9.957				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
1 2,4,5-T						
1		9.379			ND	
2		10.437				
3 2,4-DB						
1		10.003			ND	
2		11.092				
8 Dinoseb						
1		11.225			ND	
2		11.467				

QC Flag Legend

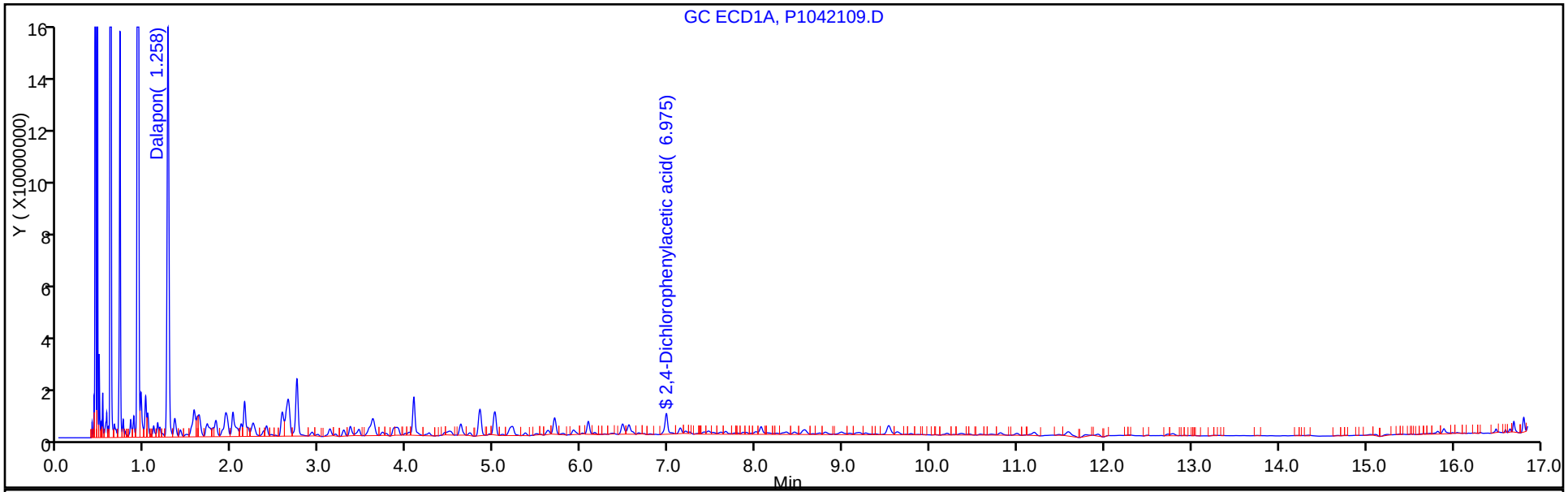
Processing Flags

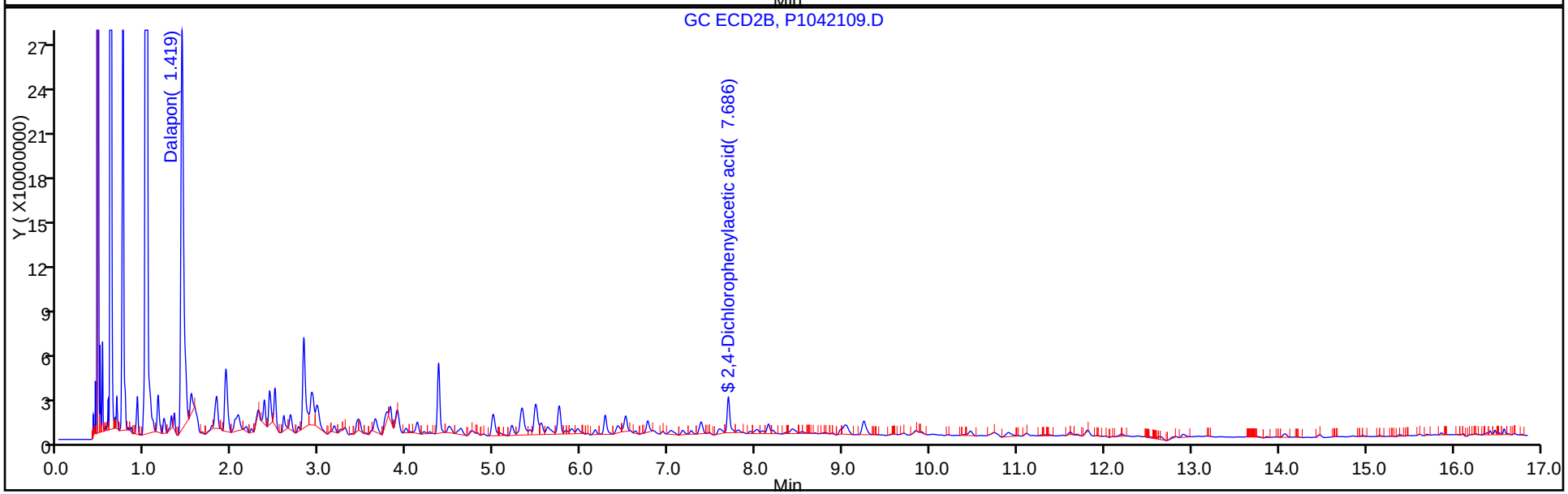
E - Exceeded Maximum Amount

Report Date: 22-Apr-2015 11:30:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042109.D				
Injection Date:	21-Apr-2015 20:53:50	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	240-49236-B-1-F	Lab Sample ID:	240-49236-1	Worklist Smp#:	9
Client ID:	079SB-0383-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW Lab Sample ID: 240-49236-1

Matrix: Solid (TCLP) Lab File ID: P1042109.D

Analysis Method: 8151A Date Collected: 04/10/2015 08:00

Extraction Method: 8151A Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) Date Analyzed: 04/21/2015 20:53

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	82	Q	37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042109.D
Lims ID: 240-49236-B-1-F Lab Sample ID: 240-49236-1
Client ID: 079SB-0383-0001-IDW
Sample Type: Client
Inject. Date: 21-Apr-2015 20:53:50 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-009
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
5 Dalapon						
1	1.258	1.273	-0.015	227818928	1.30	E
2	1.419	1.439	-0.020	589391249	0.9013	E
					RPD = 35.87	
$ 4 2,4-Dichlorophenylacetic acid						
1	6.975	6.976	-0.001	18923499	0.1813	
2	7.686	7.689	-0.003	52058363	0.1635	
					RPD = 10.34	
6 Dicamba						
1		7.142			ND	
2		7.855				
10 MCPP						
1		7.423			ND	
2		8.038				
9 MCPA						
1		7.585			ND	
2		8.292				
7 Dichlorprop						
1		7.955			ND	
2		8.657				
2 2,4-D						
1		8.192			ND	
2		9.013				
11 Pentachlorophenol						
1		8.282			ND	
2		9.315				
12 Silvex (2,4,5-TP)						
1		9.065			ND	
2		9.957				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
1 2,4,5-T						
1		9.379			ND	
2		10.437				
3 2,4-DB						
1		10.003			ND	
2		11.092				
8 Dinoseb						
1		11.225			ND	
2		11.467				

QC Flag Legend

Processing Flags

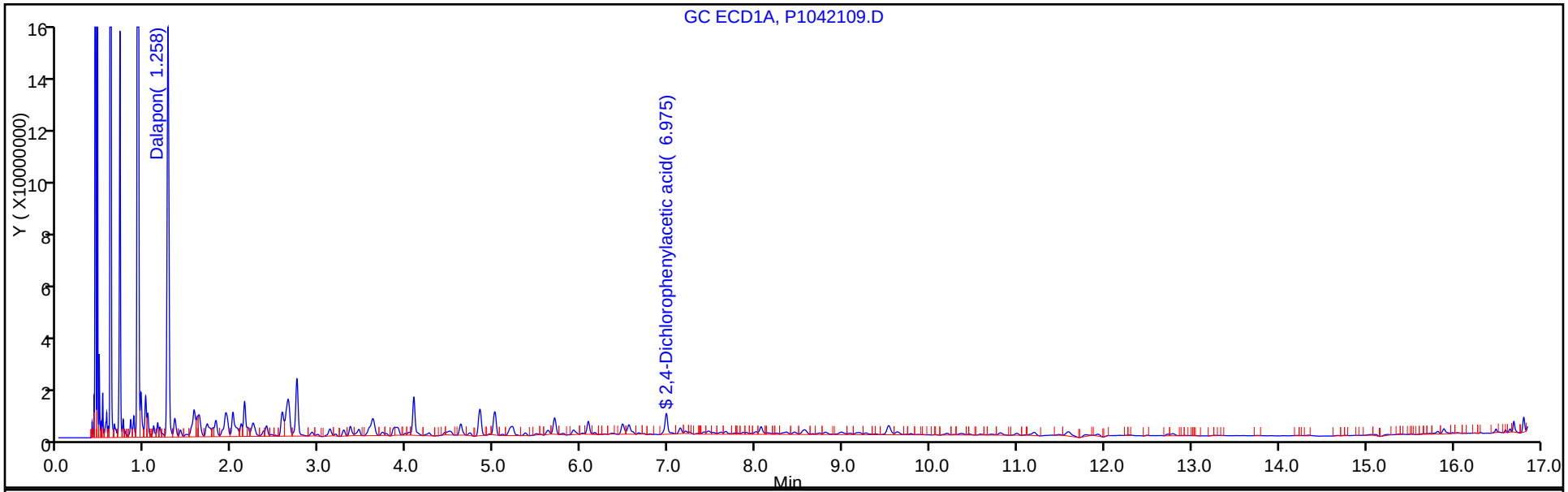
E - Exceeded Maximum Amount

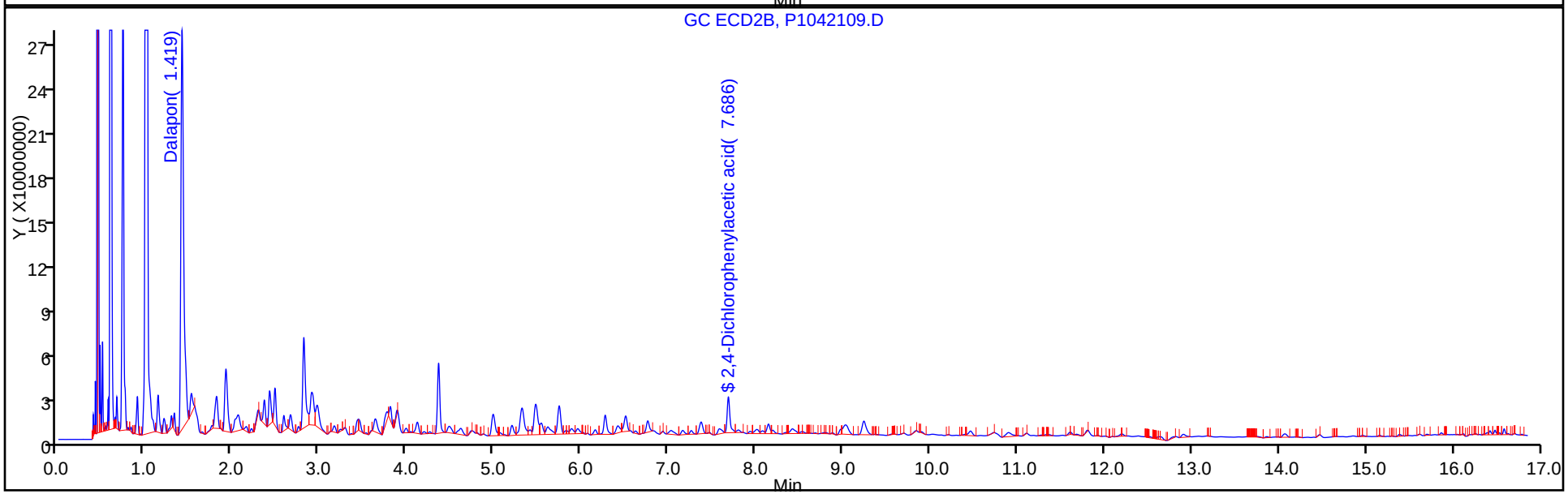
Report Date: 22-Apr-2015 11:30:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042109.D

Injection Date:	21-Apr-2015 20:53:50	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	240-49236-B-1-F	Lab Sample ID:	240-49236-1	Worklist Smp#:	9
Client ID:	079SB-0383-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW | Lab Sample ID: 240-49236-2

Matrix: Water (TCLP) | Lab File ID: P1042111.D

Analysis Method: 8151A | Date Collected: 04/10/2015 08:30

Extraction Method: 8151A | Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) | Date Analyzed: 04/21/2015 21:41

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	0.0040	U	0.50	0.0040	0.0019
93-72-1	Silvex (2,4,5-TP)	0.00020	U	0.10	0.00020	0.00027

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	97	M Q	37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042111.D
Lims ID: 240-49236-F-2-D Lab Sample ID: 240-49236-2
Client ID: 079SB-0384-0001-IDW
Sample Type: Client
Inject. Date: 21-Apr-2015 21:41:29 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-011
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:04:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 4 2,4-Dichlorophenylacetic acid						M
1	6.974	6.976	-0.002	20188200	0.1941	M
2	7.685	7.689	-0.004	63004200	0.1978	
					RPD = 1.91	
2 2,4-D						M
1	8.197	8.192	0.005	2068581	0.0171	
2	9.032	9.013	0.019	12608830	0.0370	M
					RPD = 73.81	
12 Silvex (2,4,5-TP)						
1		9.065			ND	
2		9.957				

QC Flag Legend

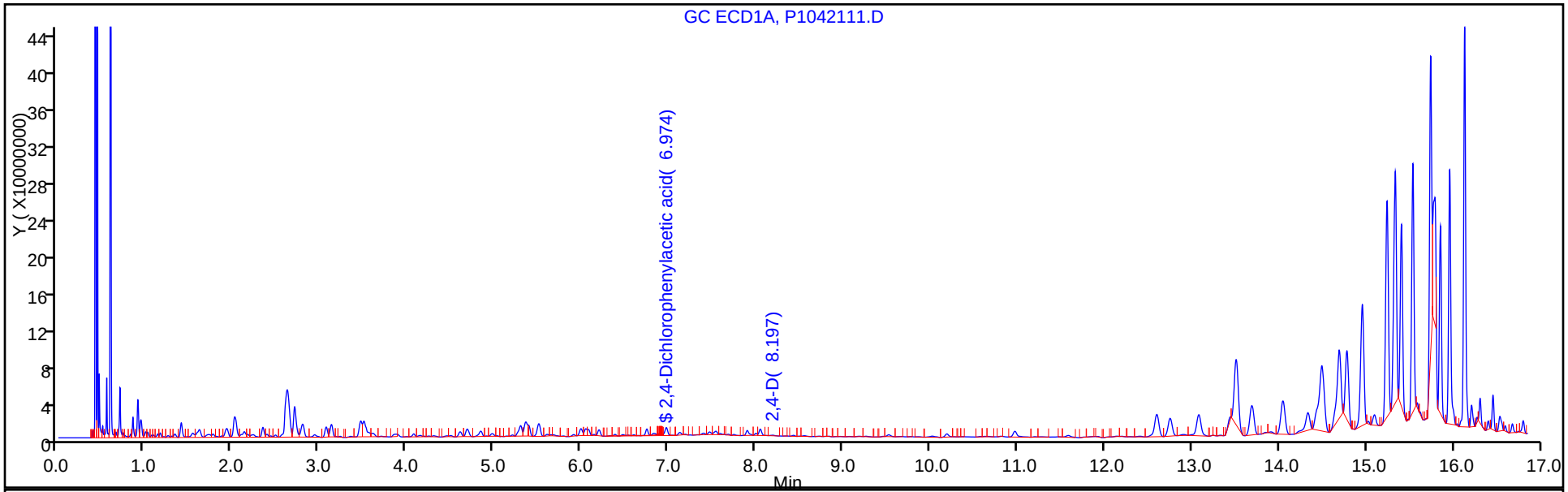
Review Flags
M - Manually Integrated

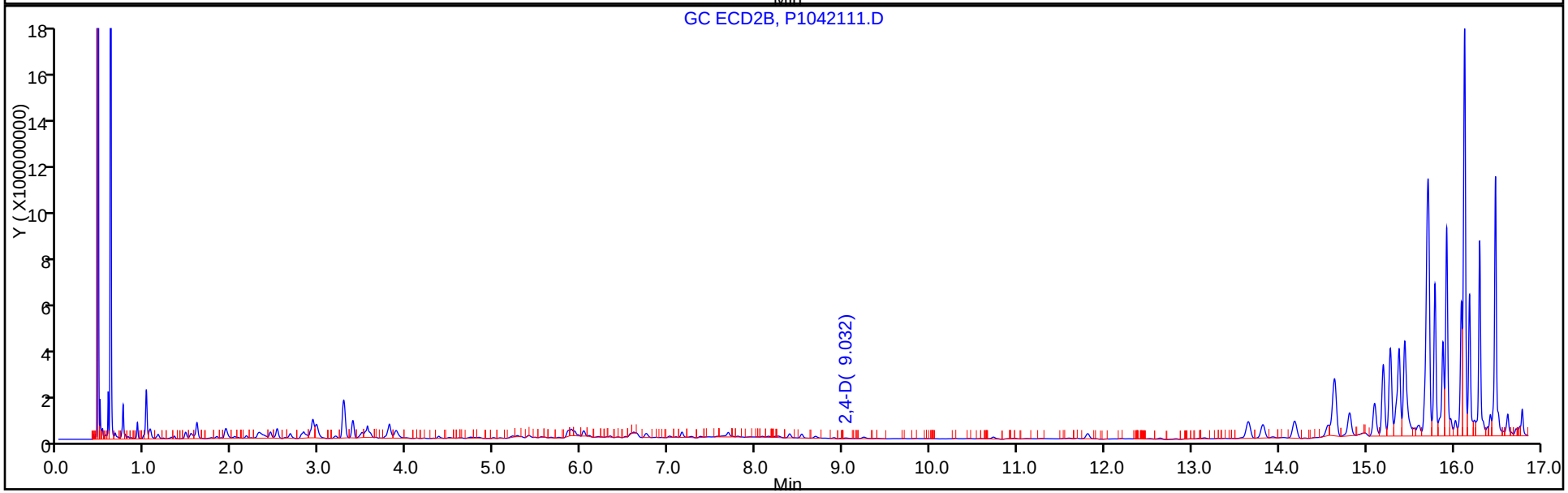
Report Date: 22-Apr-2015 11:30:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042111.D

Injection Date:	21-Apr-2015 21:41:29	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	240-49236-F-2-D	Lab Sample ID:	240-49236-2	Worklist Smp#:	11
Client ID:	079SB-0384-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8151_1	Limit Group:	GC 8151 DOD		





Manual Integration/User Assign Peak Report

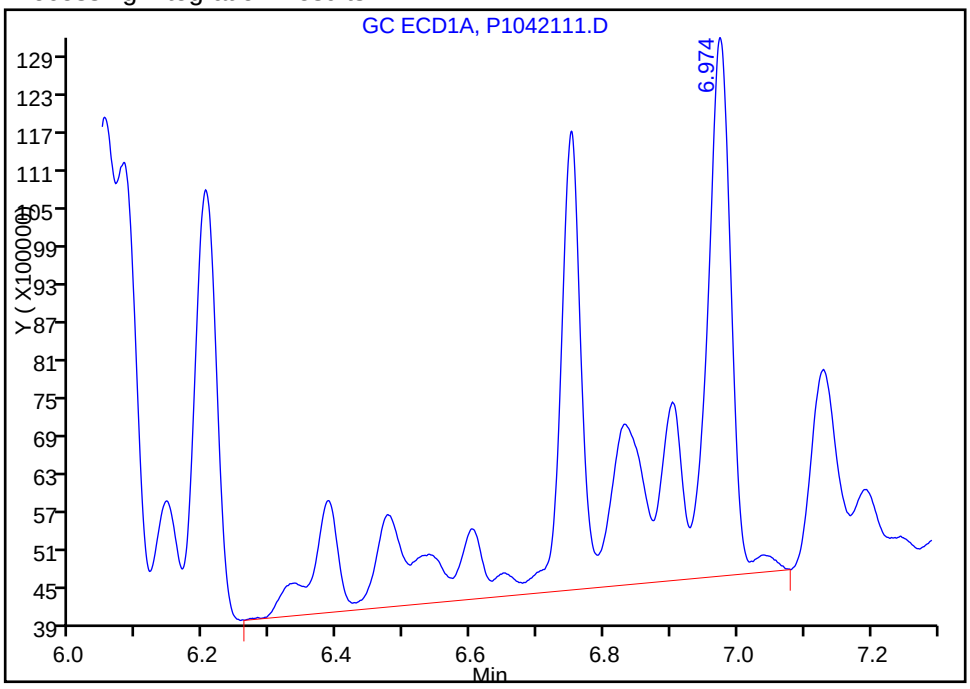
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042111.D				
Injection Date:	21-Apr-2015 21:41:29	Instrument ID:	A2HP1		
Lims ID:	240-49236-F-2-D	Lab Sample ID:	240-49236-2		
Client ID:	079SB-0384-0001-IDW				
Operator ID:	001754	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8151_1	Limit Group:	GC 8151 DOD		
Column:		Detector	GC ECD1A		

$ 4 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

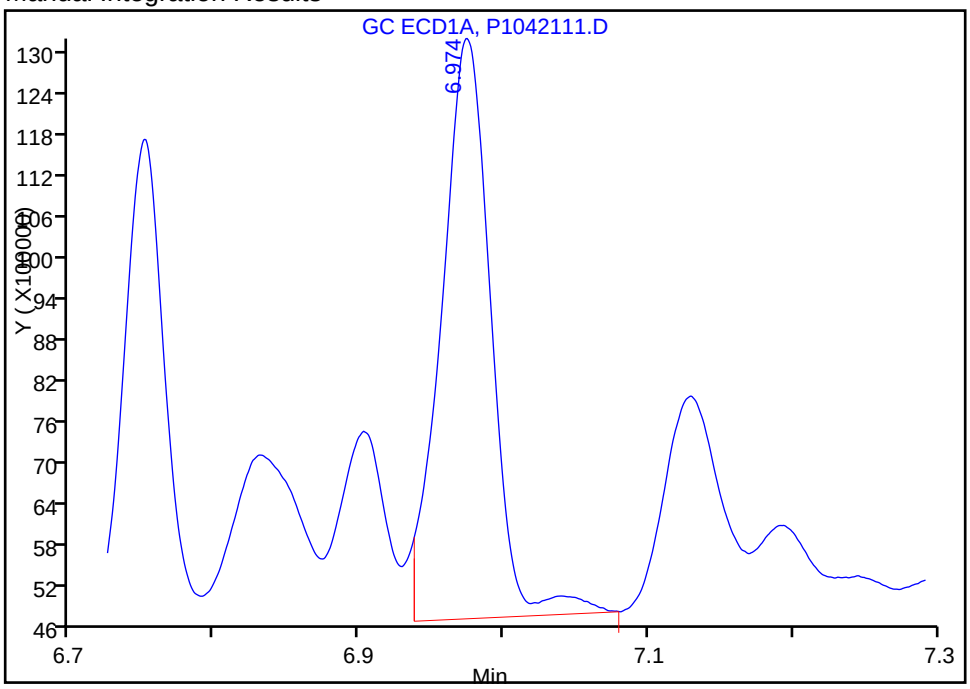
Processing Integration Results

RT: 6.97
Area: 37117824
Amount: 0.365477
Amount Units: ng/ul



Manual Integration Results

RT: 6.97
Area: 20188200
Amount: 0.194083
Amount Units: ng/ul



Reviewer: bolgrind, 22-Apr-2015 11:04:09
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Split Peak

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0384-0001-IDW Lab Sample ID: 240-49236-2

Matrix: Water (TCLP) Lab File ID: P1042111.D

Analysis Method: 8151A Date Collected: 04/10/2015 08:30

Extraction Method: 8151A Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) Date Analyzed: 04/21/2015 21:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	99	Q	37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042111.D
Lims ID: 240-49236-F-2-D Lab Sample ID: 240-49236-2
Client ID: 079SB-0384-0001-IDW
Sample Type: Client
Inject. Date: 21-Apr-2015 21:41:29 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-011
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:04:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 4 2,4-Dichlorophenylacetic acid						M
1	6.974	6.976	-0.002	20188200	0.1941	M
2	7.685	7.689	-0.004	63004200	0.1978	
					RPD = 1.91	
2 2,4-D						M
1	8.197	8.192	0.005	2068581	0.0171	
2	9.032	9.013	0.019	12608830	0.0370	M
					RPD = 73.81	
12 Silvex (2,4,5-TP)						
1		9.065			ND	
2		9.957				

QC Flag Legend

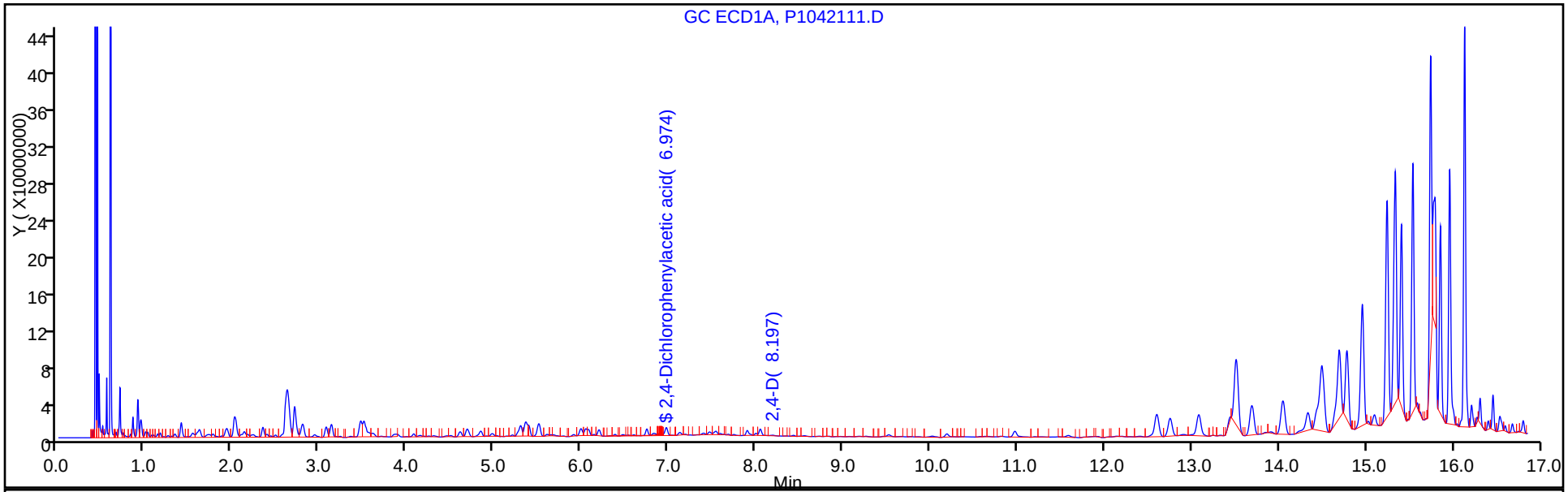
Review Flags
M - Manually Integrated

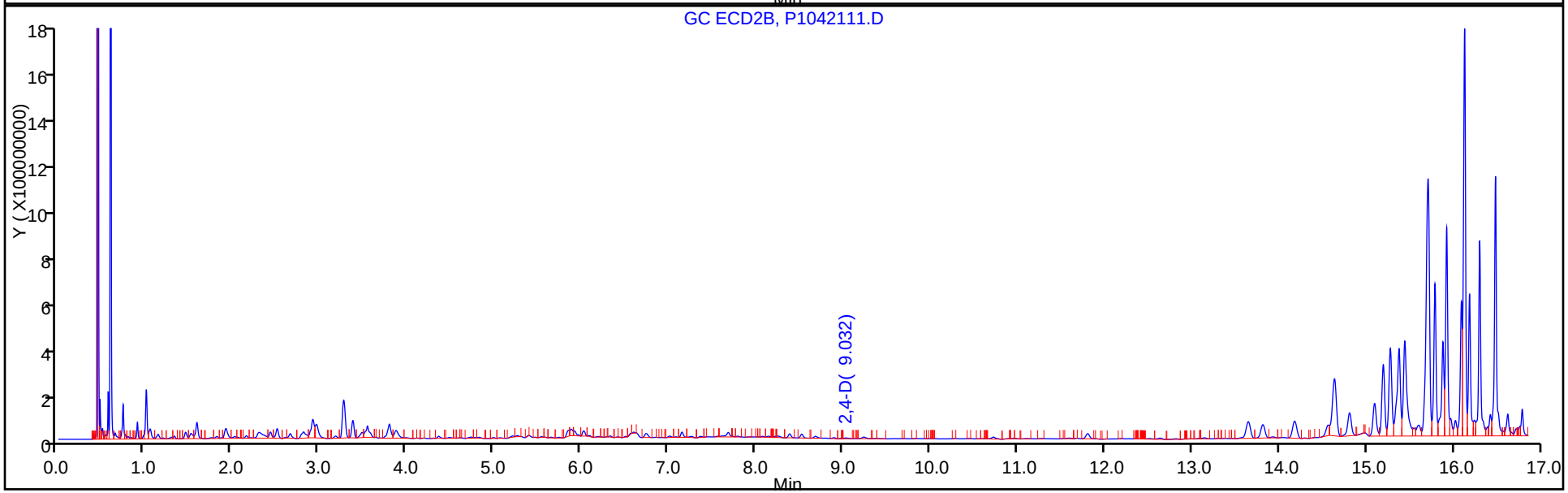
Report Date: 22-Apr-2015 11:30:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042111.D

Injection Date:	21-Apr-2015 21:41:29	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	240-49236-F-2-D	Lab Sample ID:	240-49236-2	Worklist Smp#:	11
Client ID:	079SB-0384-0001-IDW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8151_1	Limit Group:	GC 8151 DOD		





Manual Integration/User Assign Peak Report

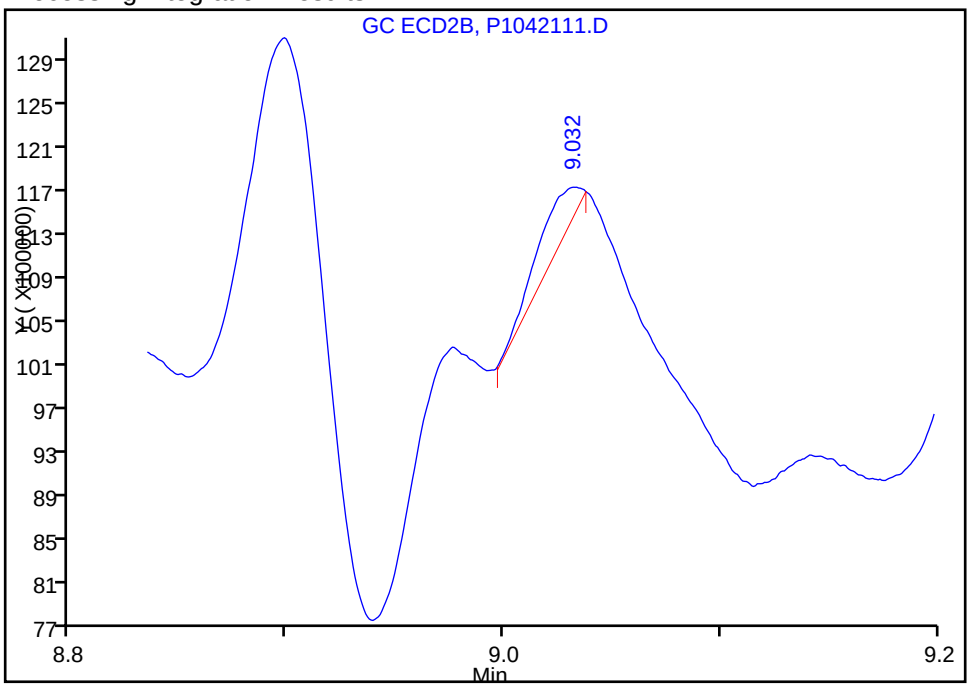
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042111.D				
Injection Date:	21-Apr-2015 21:41:29	Instrument ID:	A2HP1		
Lims ID:	240-49236-F-2-D	Lab Sample ID:	240-49236-2		
Client ID:	079SB-0384-0001-IDW				
Operator ID:	001754	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8151_1	Limit Group:	GC 8151 DOD		
Column:		Detector	GC ecd2b		

2 2,4-D, CAS: 94-75-7

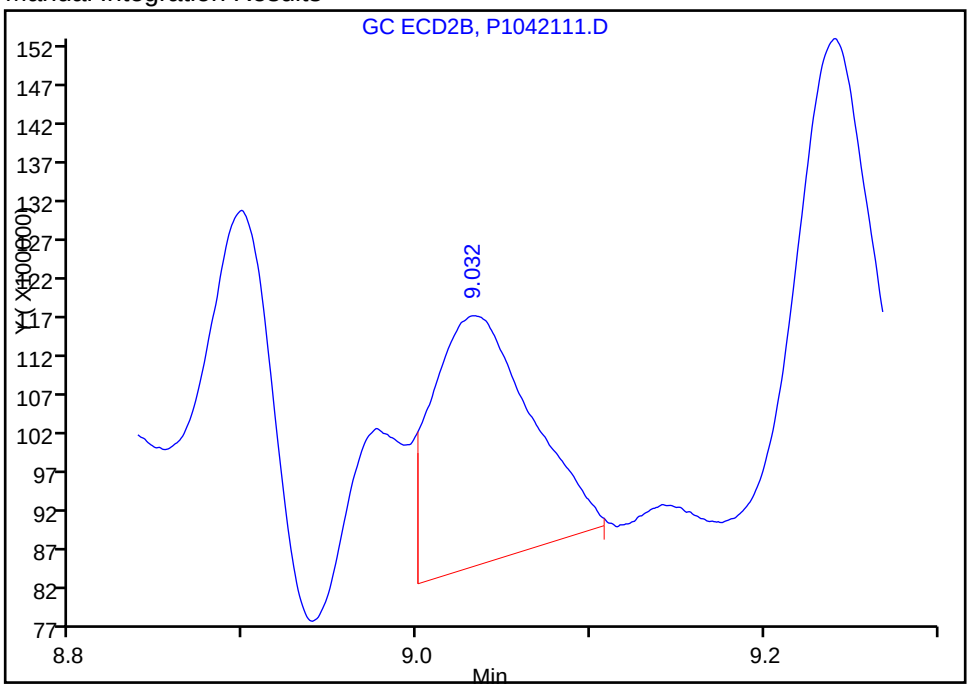
Processing Integration Results

RT: 9.03
Area: 607616
Amount: 0.004470
Amount Units: ng/ul



Manual Integration Results

RT: 9.03
Area: 12608830
Amount: 0.037012
Amount Units: ng/ul



Reviewer: bolgrind, 22-Apr-2015 11:04:09
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177103

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 14:50 Calibration End Date: 04/20/2015 17:13 Calibration ID: 28027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177103/7	P1042007.D
Level 2	STD2 240-177103/8	P1042008.D
Level 3	STD3 240-177103/9	P1042009.D
Level 4	STD4 240-177103/10	P1042010.D
Level 5	STD5 240-177103/11	P1042011.D
Level 6	STD6 240-177103/12	P1042012.D
Level 7	STD7 240-177103/13	P1042013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Dalapon	1.274	1.273	1.274	1.274	1.273	1.274	1.273				1.254 - 1.294	1.274
Dicamba	7.145	7.143	7.143	7.142	7.142	7.142	7.141				7.123 - 7.163	7.143
MCPP	7.427	7.424	7.424	7.423	7.422	+++++	+++++				7.404 - 7.444	7.424
MCPA	7.590	7.587	7.585	7.585	7.585	+++++	+++++				7.565 - 7.605	7.586
Dichlorprop	7.958	7.956	7.956	7.953	7.954	7.954	7.952				7.936 - 7.976	7.955
2,4-D	8.194	8.193	8.192	8.191	8.190	8.189	8.188				8.172 - 8.212	8.191
Silvex (2,4,5-TP)	9.068	9.065	9.066	9.065	9.065	9.064	9.062				9.046 - 9.086	9.065
2,4,5-T	9.384	9.383	9.380	9.377	9.377	9.376	9.375				9.360 - 9.400	9.379
2,4-DB	10.017	10.008	10.006	10.005	10.004	10.002	10.000				9.986 - 10.026	10.006
Dinoseb	11.225	11.226	11.226	11.222	11.223	11.222	11.222				11.196 - 11.256	11.224
2,4-Dichlorophenylacetic acid	6.980	6.978	6.977	6.975	6.975	6.975	6.974				6.957 - 6.997	6.976

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177103

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 14:50 Calibration End Date: 04/20/2015 17:13 Calibration ID: 28027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177103/7	P1042007.D
Level 2	STD2 240-177103/8	P1042008.D
Level 3	STD3 240-177103/9	P1042009.D
Level 4	STD4 240-177103/10	P1042010.D
Level 5	STD5 240-177103/11	P1042011.D
Level 6	STD6 240-177103/12	P1042012.D
Level 7	STD7 240-177103/13	P1042013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Dalapon	204897400 166899460	186833450 162211025	180920975 159677750	169828175	Ave		175895462				9.1		20.0			
Dicamba	476382600 447100720	463394050 433167344	452229775 410837903	453752675	Ave		448123581				4.7		20.0			
MCPP	387650 477270	489393 +++++	537191 +++++	498483	Ave		477997.365				11.6		20.0			
MCPA	746035 664962	837383 +++++	794278 +++++	681185	Ave		744768.553				9.8		20.0			
Dichlorprop	109883550 102506120	110929125 97227806	109359388 92262395	102723488	Ave		103555982				6.8		20.0			
2,4-D	115200050 123994830	123279550 119559716	126584213 115011091	125258050	Ave		121269643				3.9		20.0			
Silvex (2,4,5-TP)	609490400 655752980	628884500 639585638	642110950 630726275	661426675	Ave		638282488				2.7		20.0			
2,4,5-T	430863000 563293320	490345700 564165188	518508750 578143831	564814250	Lin1	-848382.80	580164632							1.0000		0.9900
2,4-DB	35025900 54373780	38693375 58453906	46636175 61570205	55533750	Lin1	-740327.00	60980666.4							0.9980		0.9900
Dinoseb	380774000 422820267	372219500 416793708	417020917 421035438	427714625	Ave		408339779				5.4		20.0			
2,4-Dichlorophenylacetic acid	138528050 108620240	123431000 103257116	115016550 96687245	111122656	Lin1	1017297.19	98776597.0							0.9980		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177103

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 14:50 Calibration End Date: 04/20/2015 17:13 Calibration ID: 28027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177103/7	P1042007.D
Level 2	STD2 240-177103/8	P1042008.D
Level 3	STD3 240-177103/9	P1042009.D
Level 4	STD4 240-177103/10	P1042010.D
Level 5	STD5 240-177103/11	P1042011.D
Level 6	STD6 240-177103/12	P1042012.D
Level 7	STD7 240-177103/13	P1042013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dalapon	Ave	2048974 25953764	3736669 51096880	7236839	13586254	16689946	0.0100 0.160	0.0200 0.320	0.0400	0.0800	0.100
Dicamba	Ave	4763826 69306775	9267881 131468129	18089191	36300214	44710072	0.0100 0.160	0.0200 0.320	0.0400	0.0800	0.100
MCPP	Ave	775300 +++++	1957570 +++++	4297531	7975728	9545399	2.00 +++++	4.00 +++++	8.00	16.0	20.0
MCPA	Ave	1492070 +++++	3349531 +++++	6354220	10898961	13299249	2.00 +++++	4.00 +++++	8.00	16.0	20.0
Dichlorprop	Ave	2197671 31112898	4437165 59047933	8748751	16435758	20501224	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200
2,4-D	Ave	2304001 38259109	4931182 73607098	10126737	20041288	24798966	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200
Silvex (2,4,5-TP)	Ave	3047452 51166851	6288845 100916204	12842219	26457067	32787649	0.00500 0.0800	0.0100 0.160	0.0200	0.0400	0.0500
2,4,5-T	Lin1	2154315 45133215	4903457 92503013	10370175	22592570	28164666	0.00500 0.0800	0.0100 0.160	0.0200	0.0400	0.0500
2,4-DB	Lin1	700518 18705250	1547735 39404931	3730894	8885400	10874756	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200
Dinoseb	Ave	1142322 20006098	2233317 40419402	5004251	10265151	12684608	0.00300 0.0480	0.00600 0.0960	0.0120	0.0240	0.0300
2,4-Dichlorophenylacetic acid	Lin1	2770561 33042277	4937240 61879837	9201324	17779625	21724048	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D
Lims ID: STD1 HERB
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Apr-2015 14:50:47 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-007
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:36 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 15:16:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.274	1.274	0.000	2048974	0.0100	0.0116	M
2	1.440	1.440	0.000	7185154	0.0100	0.0110	
						RPD = 5.85	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.980	6.977	0.003	2770561	0.0200	0.0177	
2	7.692	7.690	0.002	6510760	0.0200	0.0204	
						RPD = 14.11	
6 Dicamba							
1	7.145	7.143	0.002	4763826	0.0100	0.0106	
2	7.855	7.854	0.001	15825568	0.0100	0.0109	
						RPD = 2.84	
10 MCPP							
1	7.427	7.424	0.003	775300	2.00	1.62	
2	8.040	8.037	0.003	3136662	2.00	1.73	
						RPD = 6.21	
9 MCPA							
1	7.590	7.585	0.005	1492070	2.00	2.00	
2	8.295	8.291	0.004	5127081	2.00	1.97	
						RPD = 1.55	
7 Dichlorprop							
1	7.958	7.956	0.002	2197671	0.0200	0.0212	
2	8.660	8.657	0.003	6135732	0.0200	0.0193	
						RPD = 9.32	
2 2,4-D							
1	8.194	8.192	0.002	2304001	0.0200	0.0190	
2	9.018	9.016	0.002	5289042	0.0200	0.0172	
						RPD = 10.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.068	9.066	0.002	3047452	0.005000	0.004774	
2	9.960	9.958	0.002	8814093	0.005000	0.004408	
						RPD = 7.99	
1 2,4,5-T							
1	9.384	9.380	0.004	2154315	0.005000	0.005176	
2	10.444	10.438	0.006	5430142	0.005000	0.005511	
						RPD = 6.28	
3 2,4-DB							M
1	10.017	10.006	0.011	700518	0.0200	0.0236	M
2	11.104	11.093	0.011	1744864	0.0200	0.0238	M
						RPD = 0.61	
8 Dinoseb							M
1	11.225	11.226	-0.001	1142322	0.003000	0.002797	
2	11.472	11.467	0.005	3072903	0.003000	0.002607	M
						RPD = 7.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

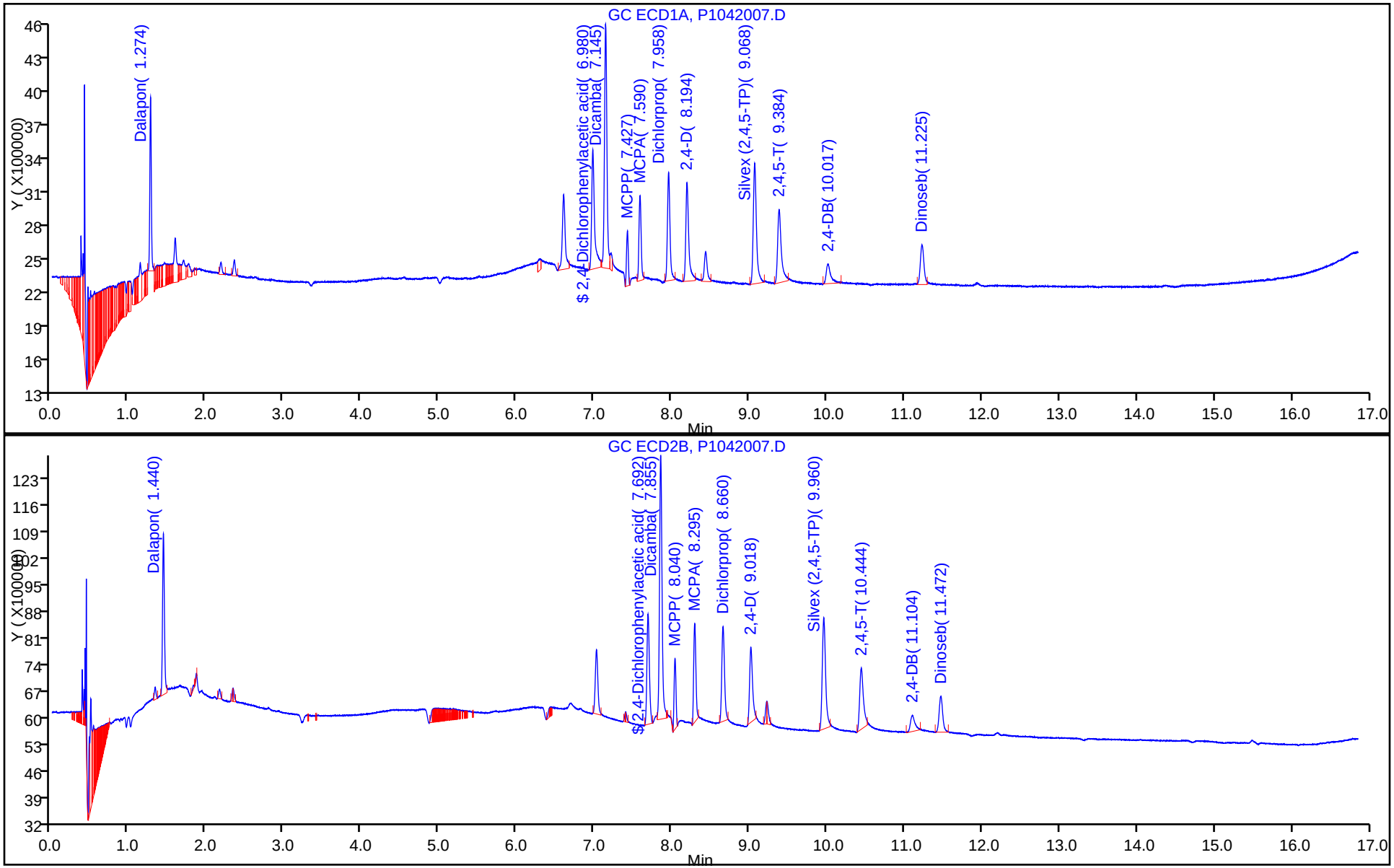
SGHERBL1_00014 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:37 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D

Injection Date:	20-Apr-2015 14:50:47	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD1 HERB			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8151_1	Limit Group:	GC 8151 DOD		



Manual Integration/User Assign Peak Report

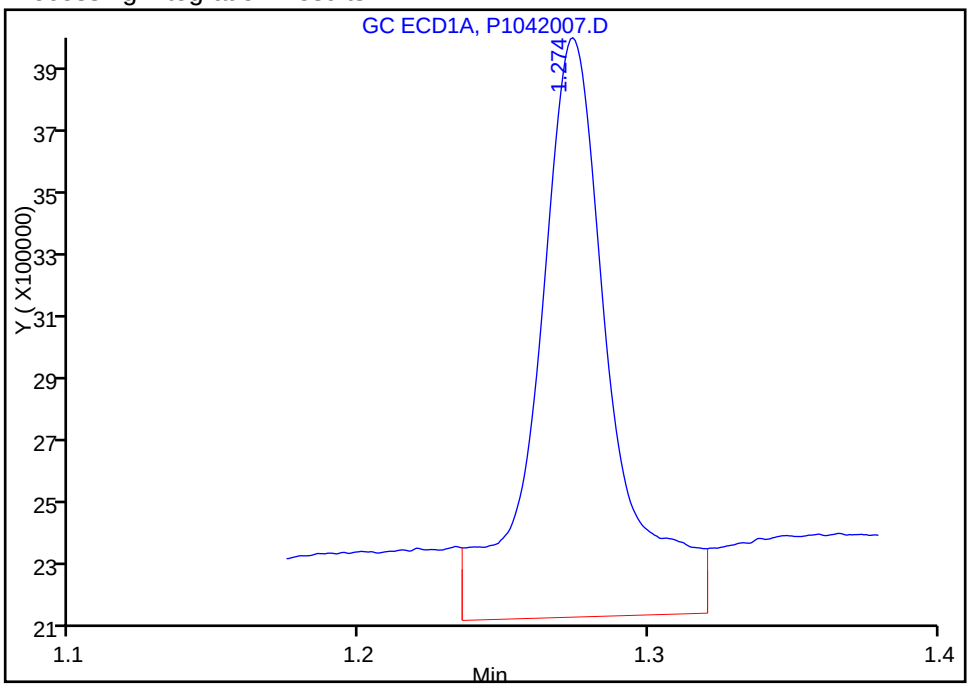
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D
Injection Date: 20-Apr-2015 14:50:47 Instrument ID: A2HP1
Lims ID: STD1 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ECD1A

5 Dalapon, CAS: 75-99-0

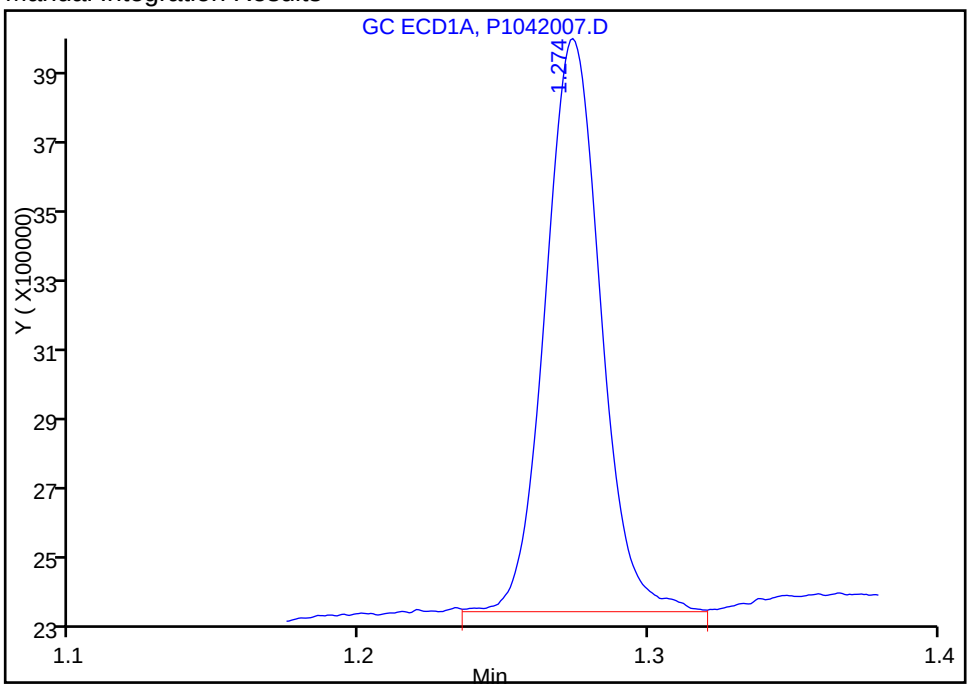
Processing Integration Results

RT: 1.27
Area: 3064195
Amount: 0.016094
Amount Units: ng/ul



Manual Integration Results

RT: 1.27
Area: 2048974
Amount: 0.011649
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:34:41
Audit Action: Manually Integrated
Audit Reason: Baseline Event

Manual Integration/User Assign Peak Report

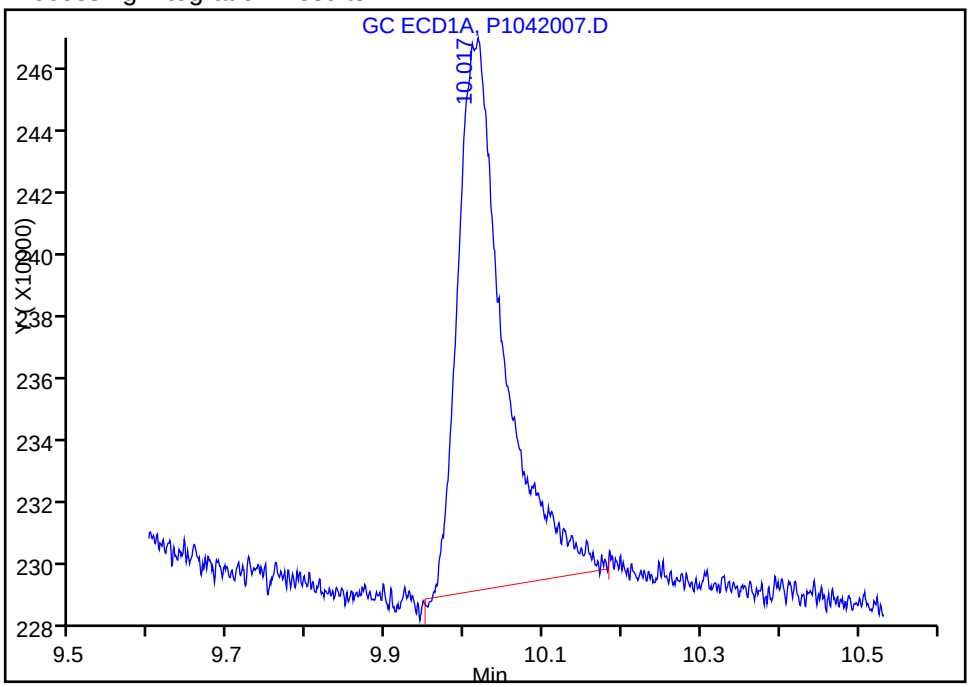
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D
Injection Date: 20-Apr-2015 14:50:47 Instrument ID: A2HP1
Lims ID: STD1 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ECD1A

3 2,4-DB, CAS: 94-82-6

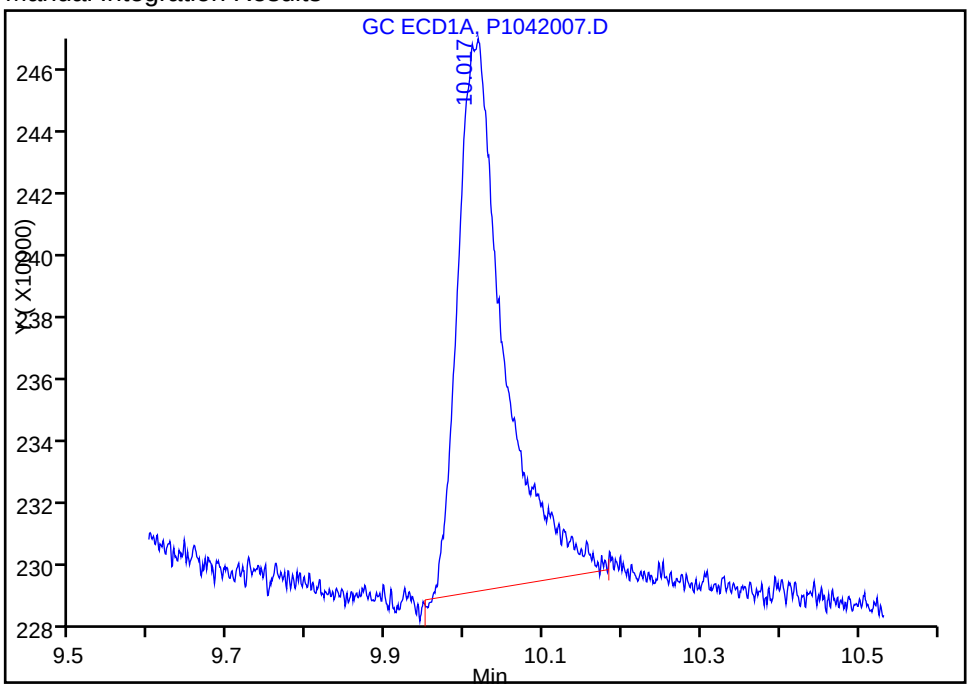
Processing Integration Results

RT: 10.02
Area: 700518
Amount: 0.023628
Amount Units: ng/ul



Manual Integration Results

RT: 10.02
Area: 700518
Amount: 0.023628
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:34:41
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042008.D
Lims ID: STD2 HERB
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Apr-2015 15:14:36 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-008
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:38 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 15:34:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.274	-0.001	3736669	0.0200	0.0212	M
2	1.440	1.440	0.000	13267944	0.0200	0.0203	M
						RPD = 4.60	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.978	6.977	0.001	4937240	0.0400	0.0397	
2	7.690	7.690	0.000	13006538	0.0400	0.0408	
						RPD = 2.87	
6 Dicamba							
1	7.143	7.143	0.000	9267881	0.0200	0.0207	
2	7.855	7.854	0.001	30138674	0.0200	0.0208	
						RPD = 0.71	
10 MCPP							
1	7.424	7.424	0.000	1957570	4.00	4.10	
2	8.039	8.037	0.002	8090387	4.00	4.45	
						RPD = 8.34	
9 MCPA							
1	7.587	7.585	0.002	3349531	4.00	4.50	
2	8.293	8.291	0.002	12524350	4.00	4.82	
						RPD = 6.90	
7 Dichlorprop							
1	7.956	7.956	0.000	4437165	0.0400	0.0428	
2	8.658	8.657	0.001	14003741	0.0400	0.0441	
						RPD = 2.93	
2 2,4-D							
1	8.193	8.192	0.001	4931182	0.0400	0.0407	
2	9.018	9.016	0.002	13304319	0.0400	0.0389	
						RPD = 4.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.066	-0.001	6288845	0.0100	0.009853	
2	9.960	9.958	0.002	18251924	0.0100	0.009127	
						RPD = 7.65	
1 2,4,5-T							
1	9.383	9.380	0.003	4903457	0.0100	0.0099	
2	10.441	10.438	0.003	12826527	0.0100	0.009517	
						RPD = 4.08	
3 2,4-DB							M
1	10.008	10.006	0.002	1547735	0.0400	0.0375	
2	11.095	11.093	0.002	4125374	0.0400	0.0370	M
						RPD = 1.29	
8 Dinoseb							
1	11.226	11.226	0.000	2233317	0.006000	0.005469	
2	11.468	11.467	0.001	5758789	0.006000	0.004886	
						RPD = 11.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

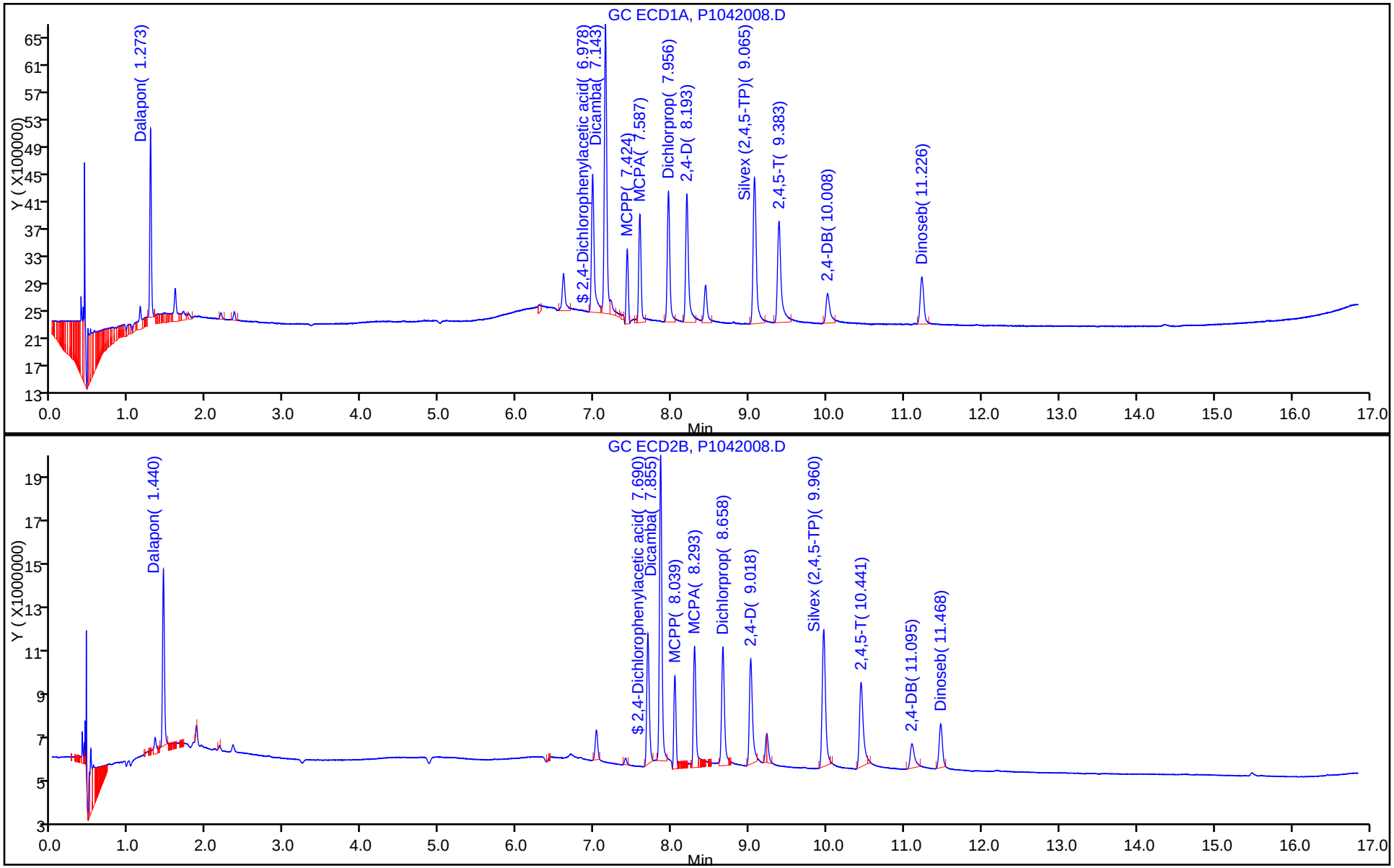
SGHERBL2_00011 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:39 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042008.D

Injection Date:	20-Apr-2015 15:14:36	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD2 HERB			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8151_1	Limit Group:	GC 8151 DOD		



Manual Integration/User Assign Peak Report

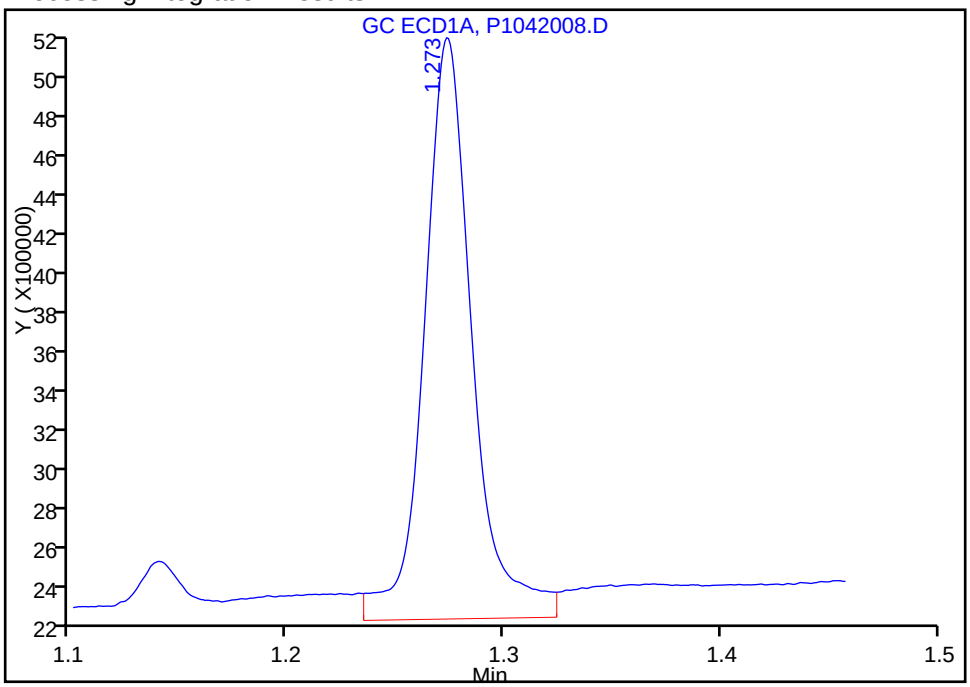
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042008.D
Injection Date: 20-Apr-2015 15:14:36 Instrument ID: A2HP1
Lims ID: STD2 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ECD1A

5 Dalapon, CAS: 75-99-0

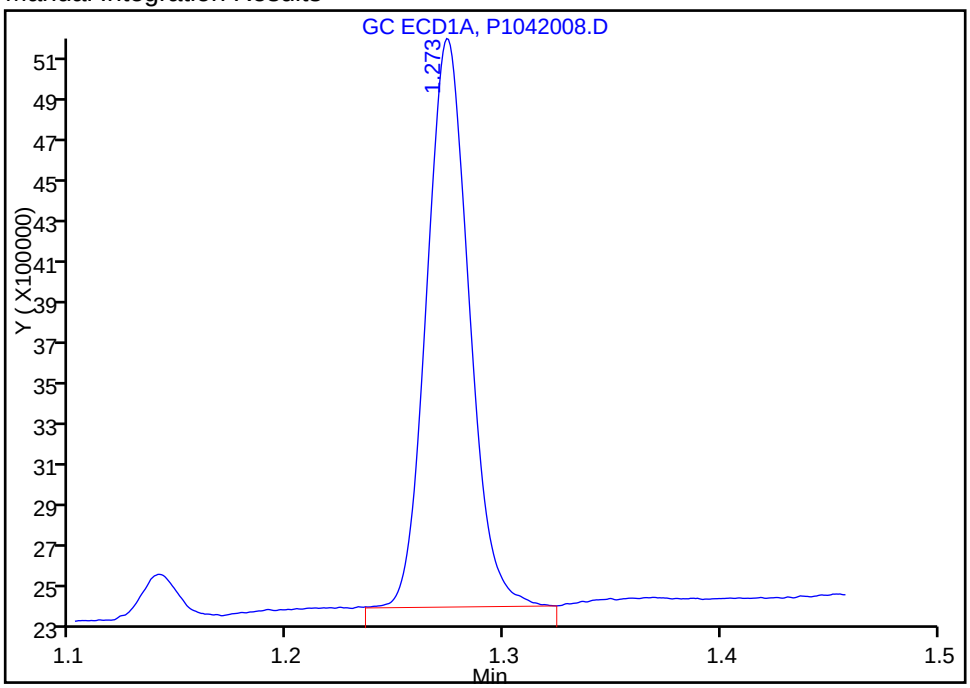
Processing Integration Results

RT: 1.27
Area: 4408099
Amount: 0.022583
Amount Units: ng/ul



Manual Integration Results

RT: 1.27
Area: 3736669
Amount: 0.021244
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:30:56
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042009.D
Lims ID: STD3 HERB
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 20-Apr-2015 15:38:28 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-009
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:42 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 16:26:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.274	1.274	0.000	7236839	0.0400	0.0411	
2	1.440	1.440	0.000	27866522	0.0400	0.0426	
						RPD = 3.51	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.977	6.977	0.000	9201324	0.0800	0.0829	
2	7.690	7.690	0.000	27653524	0.0800	0.0868	
						RPD = 4.69	
6 Dicamba							
1	7.143	7.143	0.000	18089191	0.0400	0.0404	
2	7.854	7.854	0.000	60950727	0.0400	0.0421	
						RPD = 4.25	
10 MCPP							
1	7.424	7.424	0.000	4297531	8.00	8.99	
2	8.037	8.037	0.000	16048899	8.00	8.83	
						RPD = 1.80	
9 MCPA							
1	7.585	7.585	0.000	6354220	8.00	8.53	
2	8.291	8.291	0.000	21882600	8.00	8.42	
						RPD = 1.33	
7 Dichlorprop							
1	7.956	7.956	0.000	8748751	0.0800	0.0845	
2	8.657	8.657	0.000	26540736	0.0800	0.0836	
						RPD = 1.03	
2 2,4-D							
1	8.192	8.192	0.000	10126737	0.0800	0.0835	
2	9.016	9.016	0.000	30400343	0.0800	0.0853	
						RPD = 2.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.066	9.066	0.000	12842219	0.0200	0.0201	
2	9.958	9.958	0.000	39994991	0.0200	0.0200	
						RPD = 0.60	
1 2,4,5-T							
1	9.380	9.380	0.000	10370175	0.0200	0.0193	
2	10.438	10.438	0.000	30000686	0.0200	0.0188	
						RPD = 2.72	
3 2,4-DB							M
1	10.006	10.006	0.000	3730894	0.0800	0.0733	
2	11.093	11.093	0.000	10531005	0.0800	0.0727	M
						RPD = 0.80	
8 Dinoseb							
1	11.226	11.226	0.000	5004251	0.0120	0.0123	
2	11.467	11.467	0.000	13530409	0.0120	0.0115	
						RPD = 6.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

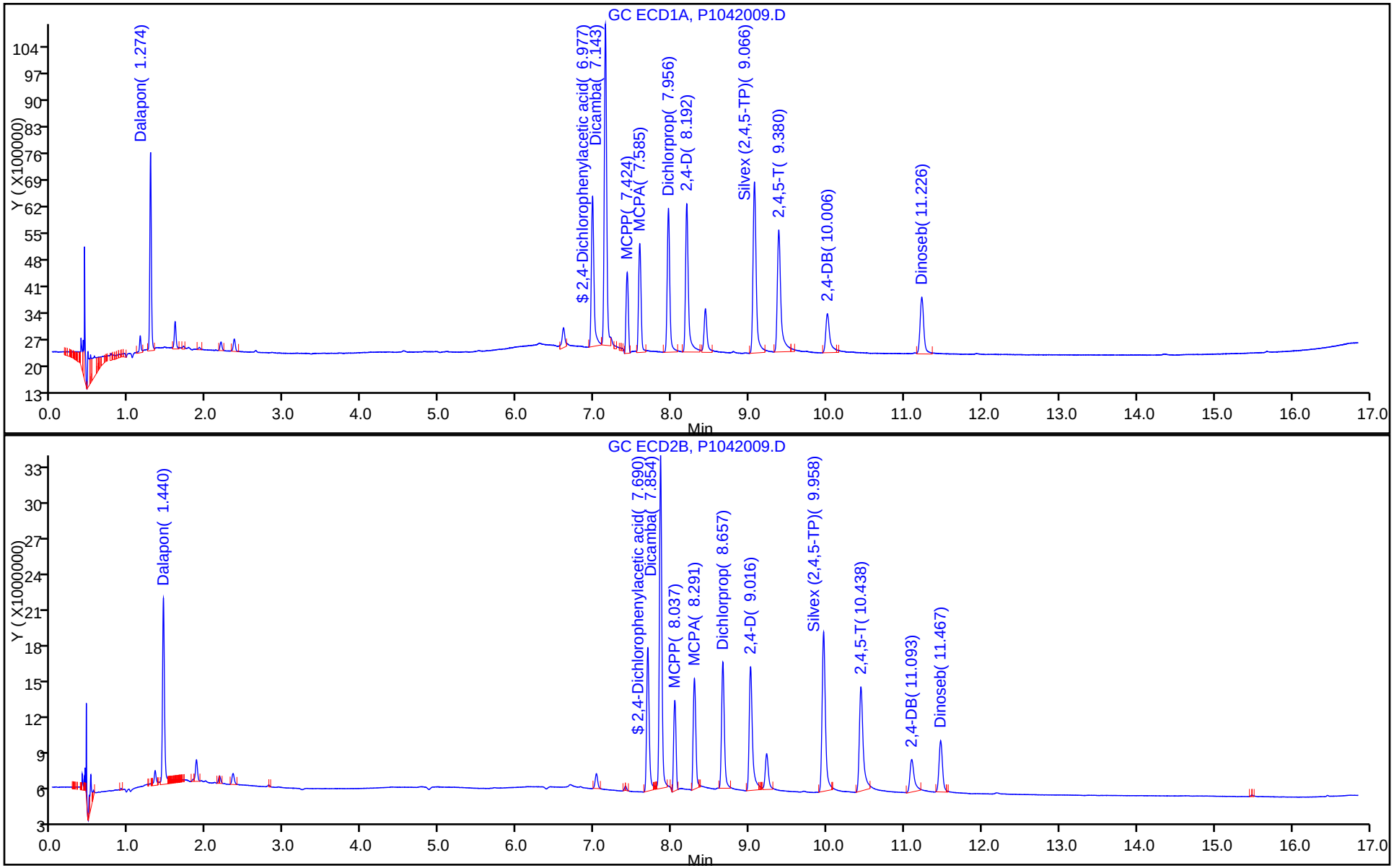
SGHERBL3_00018 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042009.D

Injection Date:	20-Apr-2015 15:38:28	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD3 HERB			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8151_1	Limit Group:	GC 8151 DOD		



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042010.D
Lims ID: STD4 HERB
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Apr-2015 16:02:18 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-010
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:44 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 16:26:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.274	1.274	0.000	13586254	0.0800	0.0772	
2	1.440	1.440	0.000	52226867	0.0800	0.0799	
						RPD = 3.34	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.977	-0.002	17779625	0.1600	0.1697	
2	7.689	7.690	-0.001	51631987	0.1600	0.1621	
						RPD = 4.57	
6 Dicamba							
1	7.142	7.143	-0.001	36300214	0.0800	0.0810	
2	7.855	7.854	0.001	115244712	0.0800	0.0796	
						RPD = 1.70	
10 MCPP							
1	7.423	7.424	-0.001	7975728	16.0	16.7	
2	8.038	8.037	0.001	28724041	16.0	15.8	
						RPD = 5.42	
9 MCPA							
1	7.585	7.585	0.000	10898961	16.0	14.6	
2	8.290	8.291	-0.001	37172995	16.0	14.3	
						RPD = 2.29	
7 Dichlorprop							
1	7.953	7.956	-0.003	16435758	0.1600	0.1587	
2	8.657	8.657	0.000	52338156	0.1600	0.1649	
						RPD = 3.82	
2 2,4-D							
1	8.191	8.192	-0.001	20041288	0.1600	0.1653	
2	9.014	9.016	-0.002	62750882	0.1600	0.1730	
						RPD = 4.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.066	-0.001	26457067	0.0400	0.0415	
2	9.957	9.958	-0.001	84236612	0.0400	0.0421	
						RPD = 1.61	
1 2,4,5-T							
1	9.377	9.380	-0.003	22592570	0.0400	0.0404	
2	10.436	10.438	-0.002	68979357	0.0400	0.0399	
						RPD = 1.18	
3 2,4-DB							
1	10.005	10.006	-0.001	8885400	0.1600	0.1578	
2	11.091	11.093	-0.002	25326291	0.1600	0.1552	
						RPD = 1.69	
8 Dinoseb							
1	11.222	11.226	-0.004	10265151	0.0240	0.0251	
2	11.467	11.467	0.000	29737211	0.0240	0.0252	
						RPD = 0.35	

Reagents:

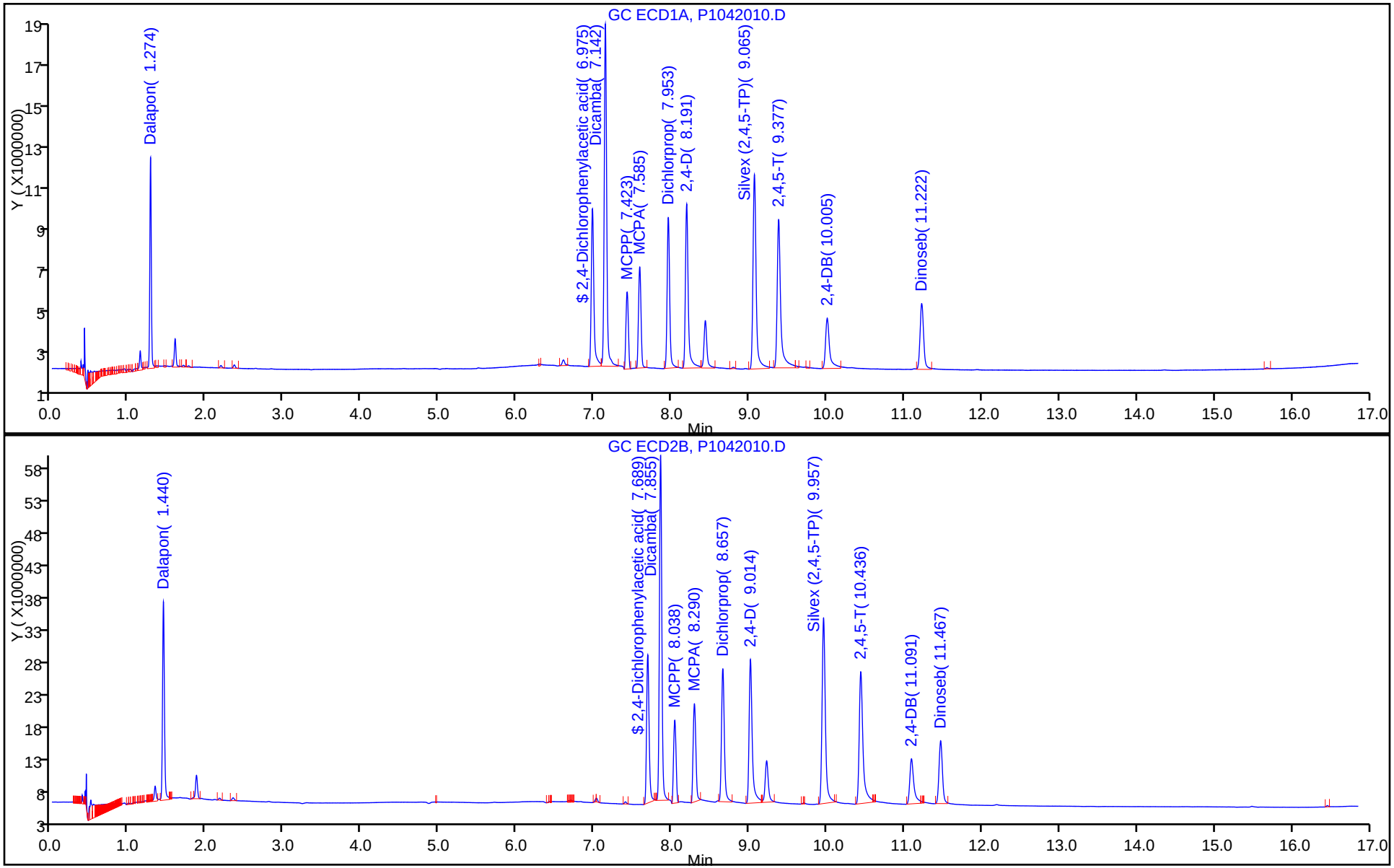
SGHERBL4_00011 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042010.D

Injection Date:	20-Apr-2015 16:02:18	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD4 HERB			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8151_1	Limit Group:	GC 8151 DOD		



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042011.D
Lims ID: STD5 HERB
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Apr-2015 16:26:06 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-011
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:46 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 21-Apr-2015 11:31:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.274	-0.001	16689946	0.1000	0.0949	
2	1.440	1.440	0.000	65467196	0.1000	0.1001	
						RPD = 5.36	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.977	-0.002	21724048	0.2000	0.2096	
2	7.688	7.690	-0.002	64324692	0.2000	0.2020	
						RPD = 3.72	
6 Dicamba							
1	7.142	7.143	-0.001	44710072	0.1000	0.0998	
2	7.854	7.854	0.000	142525848	0.1000	0.0985	
						RPD = 1.29	
10 MCPP							
1	7.422	7.424	-0.002	9545399	20.0	20.0	
2	8.037	8.037	0.000	33896311	20.0	18.7	
						RPD = 6.83	
9 MCPA							
1	7.585	7.585	0.000	13299249	20.0	17.9	
2	8.291	8.291	0.000	44845387	20.0	17.3	
						RPD = 3.43	
7 Dichlorprop							
1	7.954	7.956	-0.002	20501224	0.2000	0.1980	
2	8.657	8.657	0.000	63381837	0.2000	0.1997	
						RPD = 0.87	
2 2,4-D							
1	8.190	8.192	-0.002	24798966	0.2000	0.2045	
2	9.014	9.016	-0.002	76663197	0.2000	0.2107	
						RPD = 2.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.066	-0.001	32787649	0.0500	0.0514	
2	9.957	9.958	-0.001	106211747	0.0500	0.0531	
						RPD = 3.34	
1 2,4,5-T							
1	9.377	9.380	-0.003	28164666	0.0500	0.0500	
2	10.436	10.438	-0.002	85998659	0.0500	0.0491	
						RPD = 1.74	
3 2,4-DB							
1	10.004	10.006	-0.002	10874756	0.2000	0.1905	
2	11.090	11.093	-0.003	32656721	0.2000	0.1961	
						RPD = 2.89	
8 Dinoseb							
1	11.223	11.226	-0.003	12684608	0.0300	0.0311	
2	11.466	11.467	-0.001	38001801	0.0300	0.0322	
						RPD = 3.71	

Reagents:

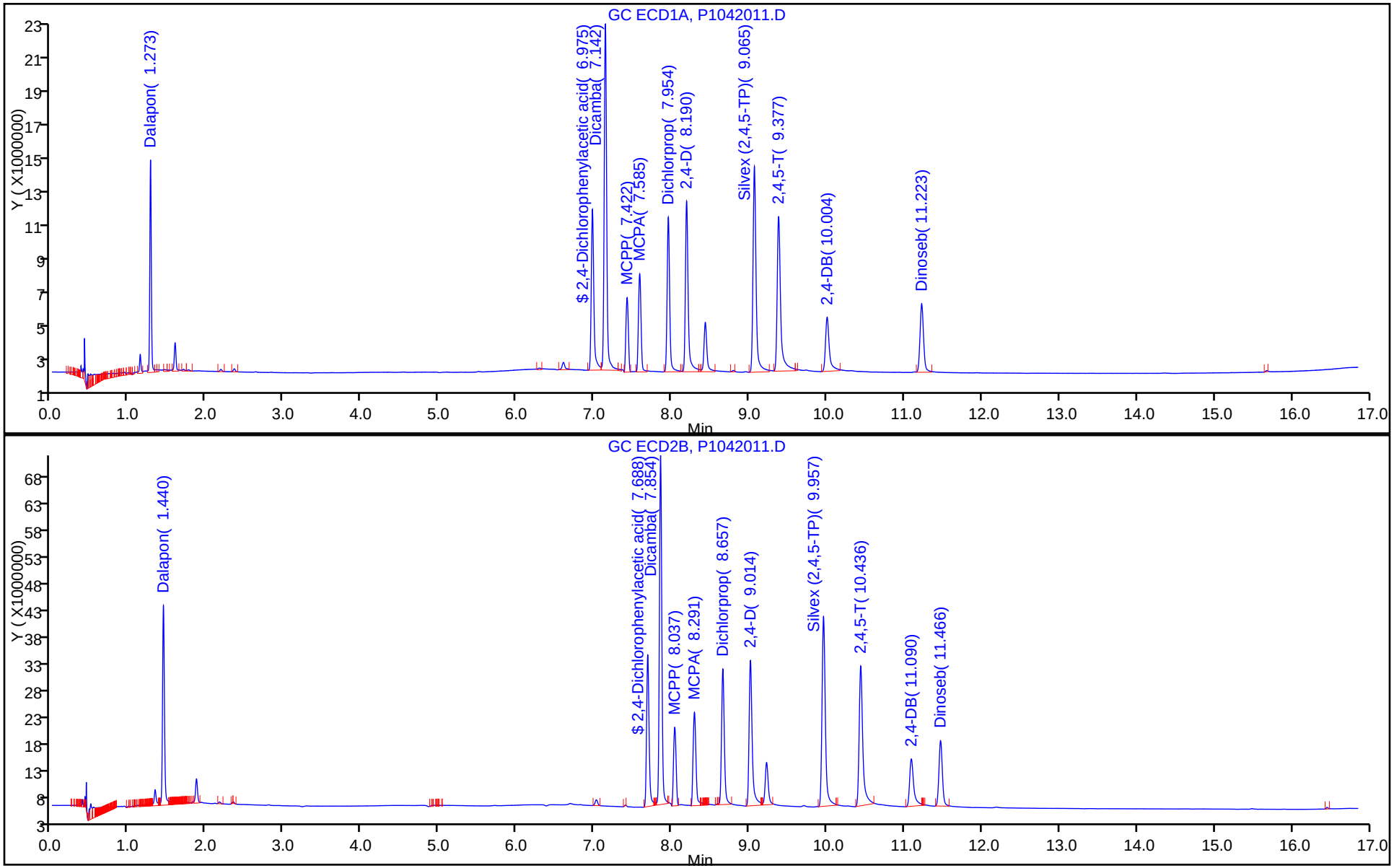
SGHERBL5_00012 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042011.D

Injection Date:	20-Apr-2015 16:26:06	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD5 HERB			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8151_1	Limit Group:	GC 8151 DOD		



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042012.D
Lims ID: STD6 HERB
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Apr-2015 16:50:02 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-012
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:48 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 21-Apr-2015 11:32:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.274	1.274	0.000	25953764	0.1600	0.1476	
2	1.440	1.440	0.000	97075594	0.1600	0.1484	
						RPD = 0.60	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.977	-0.002	33042277	0.3200	0.3242	
2	7.688	7.690	-0.002	96120554	0.3200	0.3018	
						RPD = 7.16	
6 Dicamba							
1	7.142	7.143	-0.001	69306775	0.1600	0.1547	
2	7.855	7.854	0.001	217563240	0.1600	0.1504	
						RPD = 2.83	
10 MCPP							
1	7.423	7.424	-0.001	13782219	32.0	28.8	
2	8.037	8.037	0.000	47028774	32.0	25.9	
						RPD = 10.81	
9 MCPA							
1	7.585	7.585	0.000	18647591	32.0	25.0	
2	8.291	8.291	0.000	60859475	32.0	23.4	
						RPD = 6.70	
7 Dichlorprop							
1	7.954	7.956	-0.002	31112898	0.3200	0.3004	
2	8.656	8.657	-0.001	96714836	0.3200	0.3047	
						RPD = 1.41	
2 2,4-D							
1	8.189	8.192	-0.003	38259109	0.3200	0.3155	
2	9.012	9.016	-0.004	118894120	0.3200	0.3252	
						RPD = 3.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.064	9.066	-0.002	51166851	0.0800	0.0802	
2	9.958	9.958	0.000	168494591	0.0800	0.0843	
						RPD = 4.98	
1 2,4,5-T							
1	9.376	9.380	-0.004	45133215	0.0800	0.0793	
2	10.436	10.438	-0.002	146180659	0.0800	0.0817	
						RPD = 3.09	
3 2,4-DB							
1	10.002	10.006	-0.004	18705250	0.3200	0.3189	
2	11.088	11.093	-0.005	55138275	0.3200	0.3213	
						RPD = 0.77	
8 Dinoseb							M
1	11.222	11.226	-0.004	20006098	0.0480	0.0490	M
2	11.467	11.467	0.000	62543867	0.0480	0.0531	
						RPD = 7.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

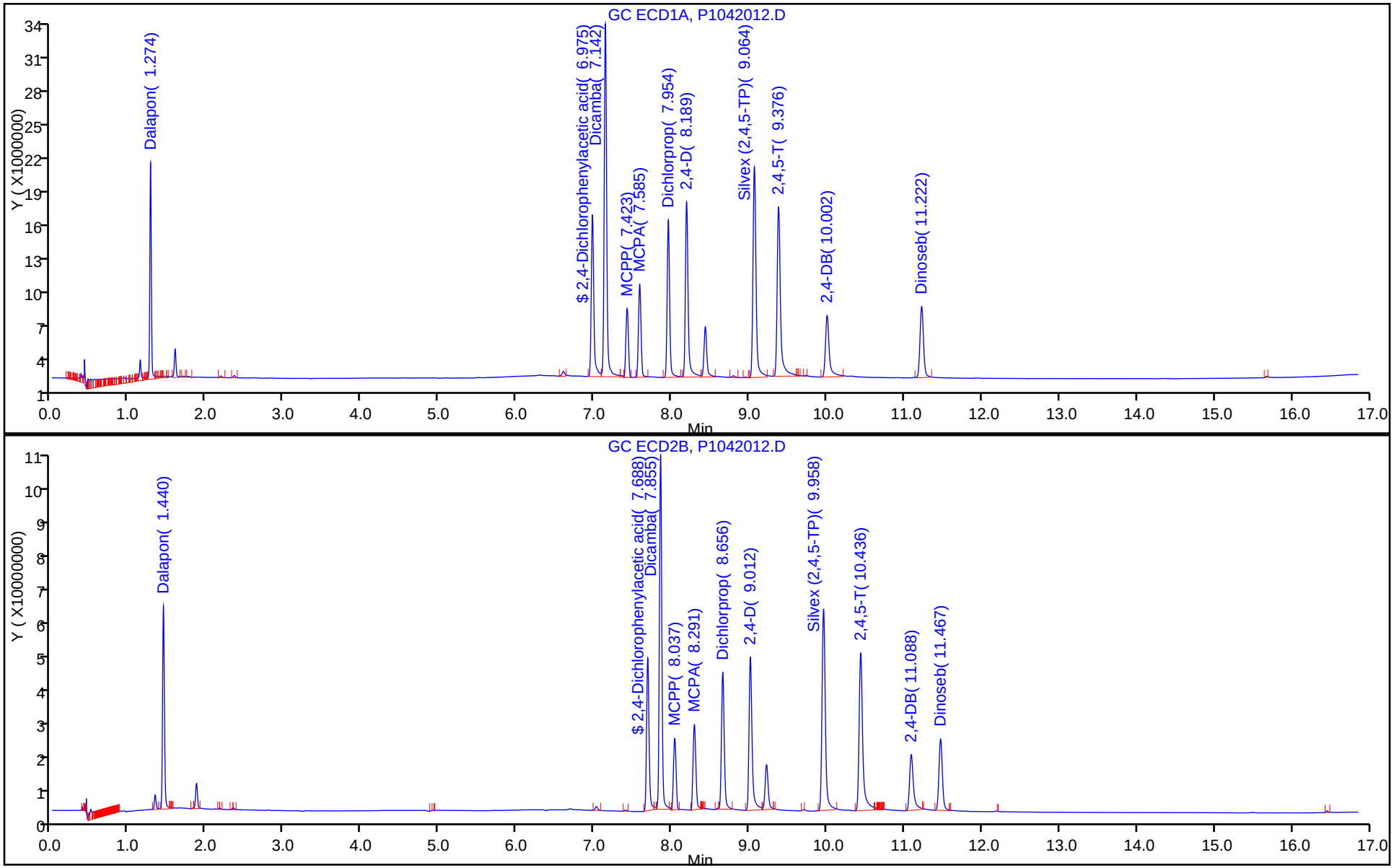
SGHERBL6_00013 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042012.D

Injection Date:	20-Apr-2015 16:50:02	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD6 HERB			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8151_1	Limit Group:	GC 8151 DOD		



Manual Integration/User Assign Peak Report

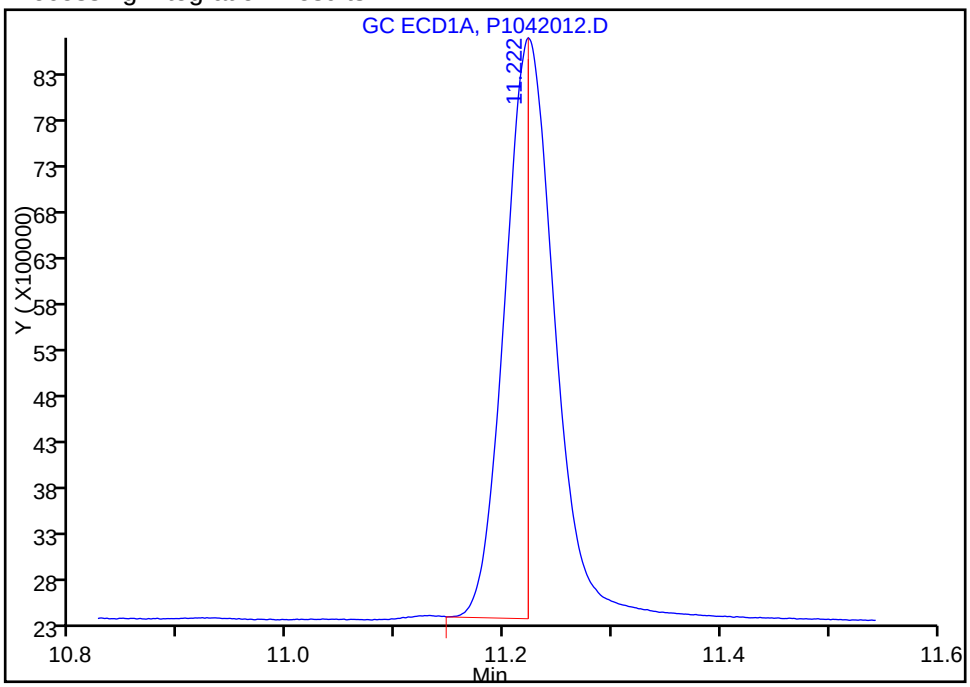
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042012.D
Injection Date: 20-Apr-2015 16:50:02 Instrument ID: A2HP1
Lims ID: STD6 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ECD1A

8 Dinoseb, CAS: 88-85-7

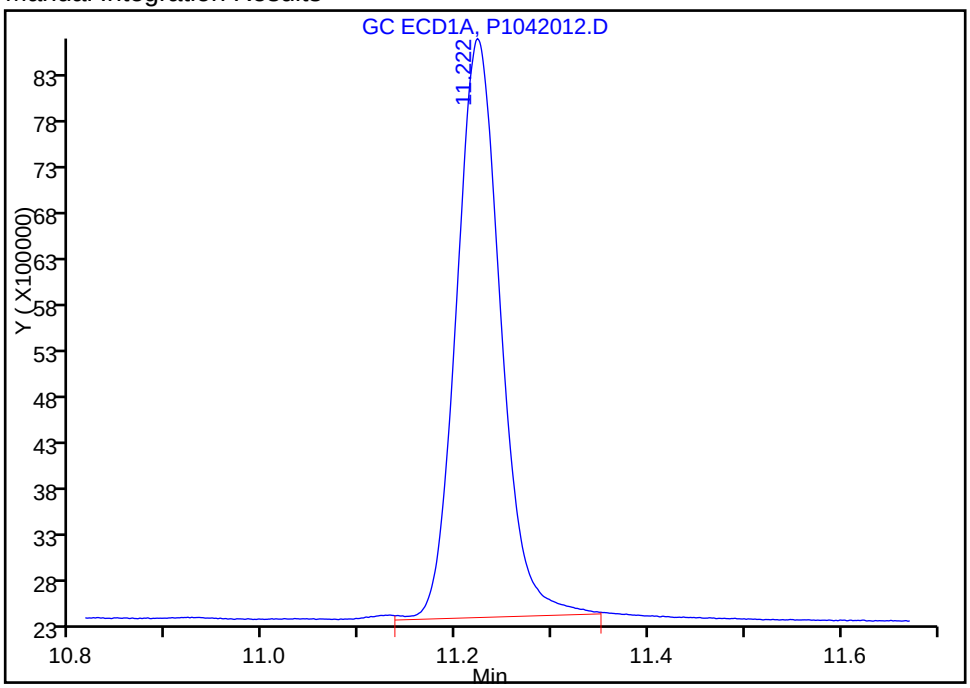
Processing Integration Results

RT: 11.22
Area: 9248817
Amount: 0.024577
Amount Units: ng/ul



Manual Integration Results

RT: 11.22
Area: 20006098
Amount: 0.048994
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:32:02
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D
Lims ID: STD7 HERB
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Apr-2015 17:13:48 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-013
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:50 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 17:40:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.274	-0.001	51096880	0.3200	0.2905	
2	1.440	1.440	0.000	187166301	0.3200	0.2862	
						RPD = 1.49	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.974	6.977	-0.003	61879837	0.6400	0.6162	
2	7.686	7.690	-0.004	184485388	0.6400	0.5793	
						RPD = 6.17	
6 Dicamba							
1	7.141	7.143	-0.002	131468129	0.3200	0.2934	
2	7.853	7.854	-0.001	412925248	0.3200	0.2854	
						RPD = 2.77	
10 MCPP							
1	7.422	7.424	-0.002	23967085	64.0	50.1	
2	8.036	8.037	-0.001	79459410	64.0	43.7	
						RPD = 13.68	
9 MCPA							
1	7.583	7.585	-0.002	32551166	64.0	43.7	
2	8.289	8.291	-0.002	101650951	64.0	39.1	
						RPD = 11.10	
7 Dichlorprop							
1	7.952	7.956	-0.004	59047933	0.6400	0.5702	
2	8.656	8.657	-0.001	183596789	0.6400	0.5784	
						RPD = 1.44	
2 2,4-D							
1	8.188	8.192	-0.004	73607098	0.6400	0.6070	
2	9.011	9.016	-0.005	223852301	0.6400	0.6098	
						RPD = 0.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.062	9.066	-0.004	100916204	0.1600	0.1581	
2	9.956	9.958	-0.002	331845710	0.1600	0.1659	
						RPD = 4.84	
1 2,4,5-T							
1	9.375	9.380	-0.005	92503013	0.1600	0.1609	
2	10.433	10.438	-0.005	291286484	0.1600	0.1603	
						RPD = 0.36	
3 2,4-DB							
1	10.000	10.006	-0.006	39404931	0.6400	0.6583	
2	11.083	11.093	-0.010	114797186	0.6400	0.6538	
						RPD = 0.68	
8 Dinoseb							
1	11.222	11.226	-0.004	40419402	0.0960	0.0990	
2	11.465	11.467	-0.002	127753126	0.0960	0.1084	
						RPD = 9.06	

Reagents:

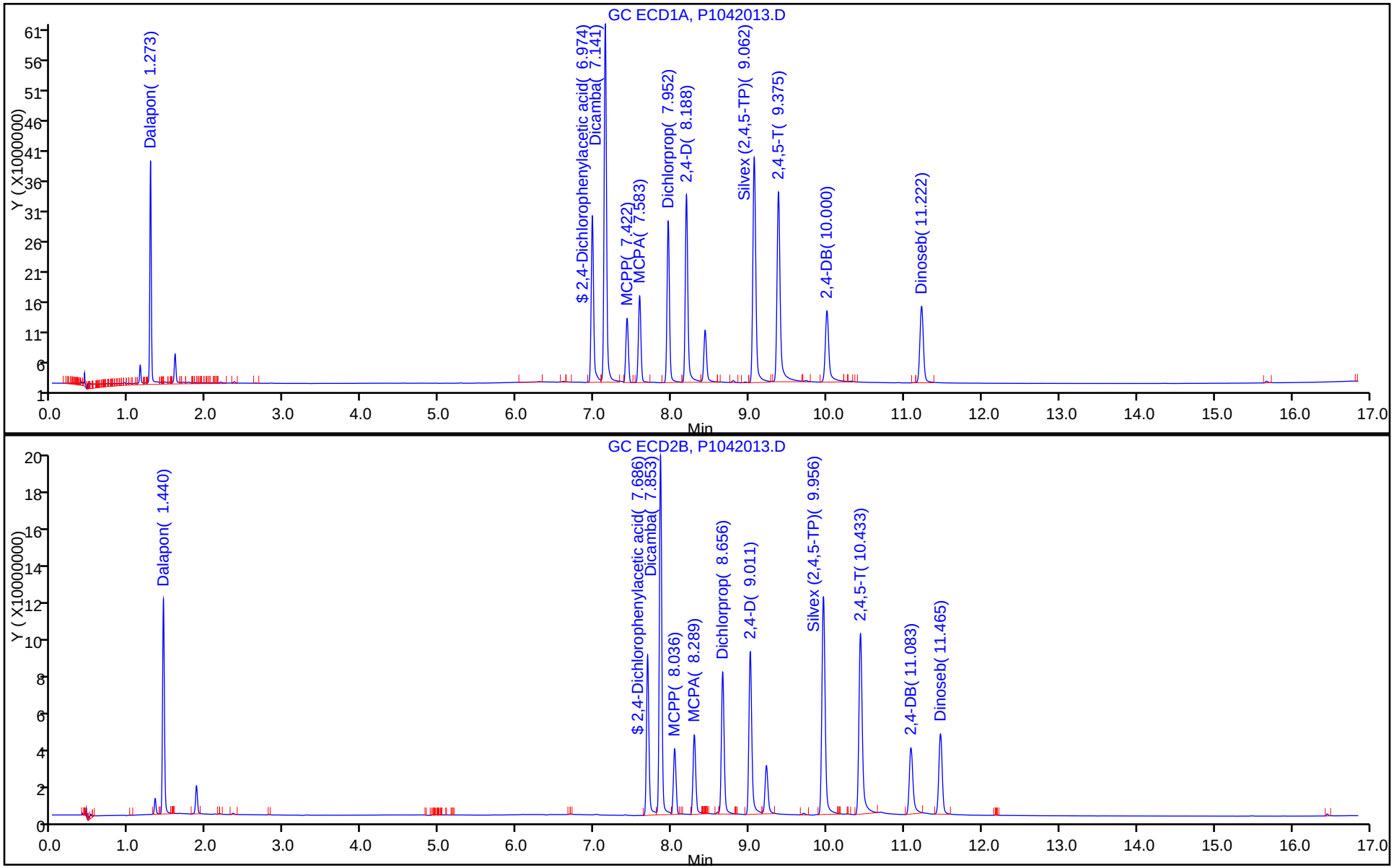
SGHERBL7_00003 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Injection Date:	20-Apr-2015 17:13:48	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD7 HERB			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8151_1	Limit Group:	GC 8151 DOD		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177103

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 14:50 Calibration End Date: 04/20/2015 17:13 Calibration ID: 28028

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177103/7	P1042007.D
Level 2	STD2 240-177103/8	P1042008.D
Level 3	STD3 240-177103/9	P1042009.D
Level 4	STD4 240-177103/10	P1042010.D
Level 5	STD5 240-177103/11	P1042011.D
Level 6	STD6 240-177103/12	P1042012.D
Level 7	STD7 240-177103/13	P1042013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Dalapon	1.440	1.440	1.440	1.440	1.440	1.440	1.440				1.420 - 1.460	1.440
Dicamba	7.855	7.855	7.854	7.855	7.854	7.855	7.853				7.834 - 7.874	7.854
MCPP	8.040	8.039	8.037	8.038	8.037	+++++	+++++				8.017 - 8.057	8.038
MCPA	8.295	8.293	8.291	8.290	8.291	+++++	+++++				8.271 - 8.311	8.292
Dichlorprop	8.660	8.658	8.657	8.657	8.657	8.656	8.656				8.637 - 8.677	8.657
2,4-D	9.018	9.018	9.016	9.014	9.014	9.012	9.011				8.996 - 9.036	9.015
Silvex (2,4,5-TP)	9.960	9.960	9.958	9.957	9.957	9.958	9.956				9.938 - 9.978	9.958
2,4,5-T	10.444	10.441	10.438	10.436	10.436	10.436	10.433				10.418 - 10.458	10.438
2,4-DB	11.104	11.095	11.093	11.091	11.090	11.088	11.083				11.073 - 11.113	11.092
Dinoseb	11.472	11.468	11.467	11.467	11.466	11.467	11.465				11.437 - 11.497	11.467
2,4-Dichlorophenylacetic acid	7.692	7.690	7.690	7.689	7.688	7.688	7.686				7.670 - 7.710	7.689

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177103

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 14:50 Calibration End Date: 04/20/2015 17:13 Calibration ID: 28028

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177103/7	P1042007.D
Level 2	STD2 240-177103/8	P1042008.D
Level 3	STD3 240-177103/9	P1042009.D
Level 4	STD4 240-177103/10	P1042010.D
Level 5	STD5 240-177103/11	P1042011.D
Level 6	STD6 240-177103/12	P1042012.D
Level 7	STD7 240-177103/13	P1042013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Dalapon	718515400 654671960	663397200 606722463	696663050 584894691	652835838	Ave		653957229				7.1		20.0			
Dicamba	1582556800 1425258480	1506933700 1359770250	1523768175 1290391400	1440558900	Ave		1447033958				6.9		20.0			
MCPP	1568331 1694816	2022597 +++++	2006112 +++++	1795253	Ave		1817421.65				10.8		20.0			
MCPA	2563541 2242269	3131088 +++++	2735325 +++++	2323312	Ave		2599106.91				13.7		20.0			
Dichlorprop	306786600 316909185	350093525 302233863	331759200 286869983	327113475	Ave		317395119				6.6		20.0			
2,4-D	264452100 383315985	332607975 371544125	380004287 349769220	392193013	Lin1	-1041032.5	368795501							0.9960		0.9900
Silvex (2,4,5-TP)	1762818600 2124234940	1825192400 2106182387	1999749550 2074035688	2105915300	Ave		1999732695				7.4		20.0			
2,4,5-T	1086028400 1719973180	1282652700 1827258238	1500034300 1820540525	1724483925	Lin1	-4745824.5	1846365166							0.9990		0.9900
2,4-DB	87243200 163283605	103134350 172307109	131637562 179370603	158289319	Lin1	-2520615.3	179427413							0.9980		0.9900
Dinoseb	1024301000 1266726700	959798167 1302997229	1127534083 1330761729	1239050458	Ave		1178738481				12.2		20.0			
2,4-Dichlorophenylacetic acid	325538000 321623460	325163450 300376731	345669050 288258419	322699919	Ave		318475576				5.9		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49236-1 Analy Batch No.: 177103

SDG No.:

Instrument ID: A2HP1 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 14:50 Calibration End Date: 04/20/2015 17:13 Calibration ID: 28028

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177103/7	P1042007.D
Level 2	STD2 240-177103/8	P1042008.D
Level 3	STD3 240-177103/9	P1042009.D
Level 4	STD4 240-177103/10	P1042010.D
Level 5	STD5 240-177103/11	P1042011.D
Level 6	STD6 240-177103/12	P1042012.D
Level 7	STD7 240-177103/13	P1042013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dalapon	Ave	7185154 97075594	13267944 187166301	27866522	52226867	65467196	0.0100 0.160	0.0200 0.320	0.0400	0.0800	0.100
Dicamba	Ave	15825568 217563240	30138674 412925248	60950727	115244712	142525848	0.0100 0.160	0.0200 0.320	0.0400	0.0800	0.100
MCPP	Ave	3136662 +++++	8090387 +++++	16048899	28724041	33896311	2.00 +++++	4.00 +++++	8.00	16.0	20.0
MCPA	Ave	5127081 +++++	12524350 +++++	21882600	37172995	44845387	2.00 +++++	4.00 +++++	8.00	16.0	20.0
Dichlorprop	Ave	6135732 96714836	14003741 183596789	26540736	52338156	63381837	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200
2,4-D	Lin1	5289042 118894120	13304319 223852301	30400343	62750882	76663197	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200
Silvex (2,4,5-TP)	Ave	8814093 168494591	18251924 331845710	39994991	84236612	106211747	0.00500 0.0800	0.0100 0.160	0.0200	0.0400	0.0500
2,4,5-T	Lin1	5430142 146180659	12826527 291286484	30000686	68979357	85998659	0.00500 0.0800	0.0100 0.160	0.0200	0.0400	0.0500
2,4-DB	Lin1	1744864 55138275	4125374 114797186	10531005	25326291	32656721	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200
Dinoseb	Ave	3072903 62543867	5758789 127753126	13530409	29737211	38001801	0.00300 0.0480	0.00600 0.0960	0.0120	0.0240	0.0300
2,4-Dichlorophenylacetic acid	Ave	6510760 96120554	13006538 184485388	27653524	51631987	64324692	0.0200 0.320	0.0400 0.640	0.0800	0.160	0.200

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D
Lims ID: STD1 HERB
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Apr-2015 14:50:47 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-007
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:36 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 15:16:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.274	1.274	0.000	2048974	0.0100	0.0116	M
2	1.440	1.440	0.000	7185154	0.0100	0.0110	
						RPD = 5.85	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.980	6.977	0.003	2770561	0.0200	0.0177	
2	7.692	7.690	0.002	6510760	0.0200	0.0204	
						RPD = 14.11	
6 Dicamba							
1	7.145	7.143	0.002	4763826	0.0100	0.0106	
2	7.855	7.854	0.001	15825568	0.0100	0.0109	
						RPD = 2.84	
10 MCPP							
1	7.427	7.424	0.003	775300	2.00	1.62	
2	8.040	8.037	0.003	3136662	2.00	1.73	
						RPD = 6.21	
9 MCPA							
1	7.590	7.585	0.005	1492070	2.00	2.00	
2	8.295	8.291	0.004	5127081	2.00	1.97	
						RPD = 1.55	
7 Dichlorprop							
1	7.958	7.956	0.002	2197671	0.0200	0.0212	
2	8.660	8.657	0.003	6135732	0.0200	0.0193	
						RPD = 9.32	
2 2,4-D							
1	8.194	8.192	0.002	2304001	0.0200	0.0190	
2	9.018	9.016	0.002	5289042	0.0200	0.0172	
						RPD = 10.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.068	9.066	0.002	3047452	0.005000	0.004774	
2	9.960	9.958	0.002	8814093	0.005000	0.004408	
						RPD = 7.99	
1 2,4,5-T							
1	9.384	9.380	0.004	2154315	0.005000	0.005176	
2	10.444	10.438	0.006	5430142	0.005000	0.005511	
						RPD = 6.28	
3 2,4-DB							M
1	10.017	10.006	0.011	700518	0.0200	0.0236	M
2	11.104	11.093	0.011	1744864	0.0200	0.0238	M
						RPD = 0.61	
8 Dinoseb							M
1	11.225	11.226	-0.001	1142322	0.003000	0.002797	
2	11.472	11.467	0.005	3072903	0.003000	0.002607	M
						RPD = 7.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

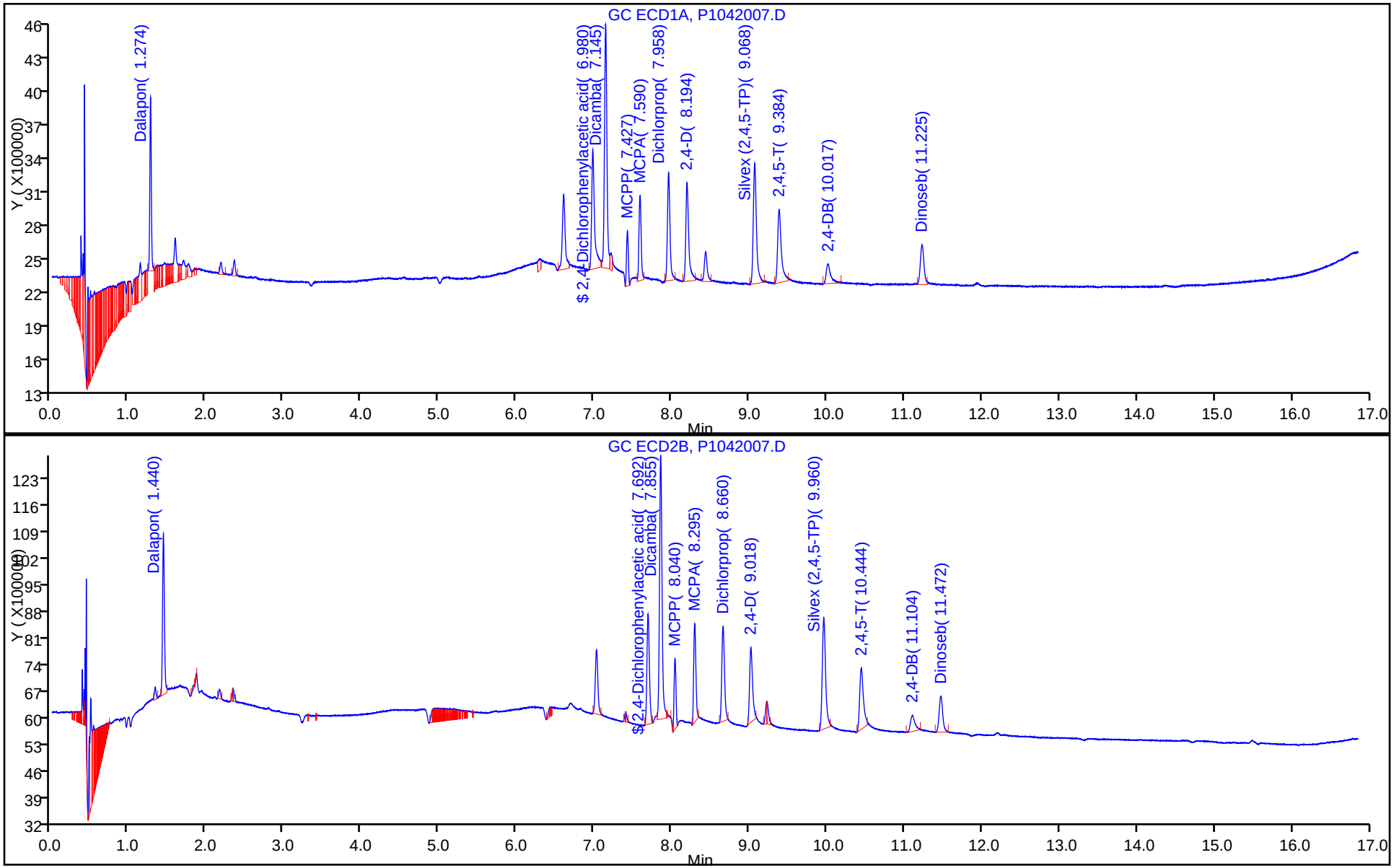
SGHERBL1_00014 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D

Injection Date:	20-Apr-2015 14:50:47	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD1 HERB			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8151_1	Limit Group:	GC 8151 DOD		



Manual Integration/User Assign Peak Report

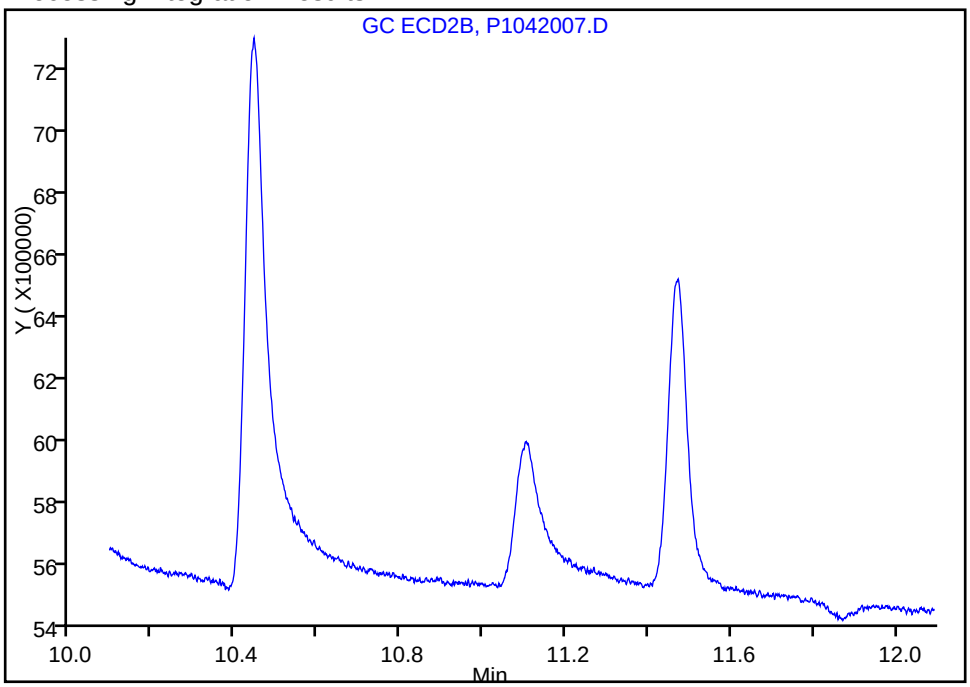
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D
Injection Date: 20-Apr-2015 14:50:47 Instrument ID: A2HP1
Lims ID: STD1 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ecd2b

3 2,4-DB, CAS: 94-82-6

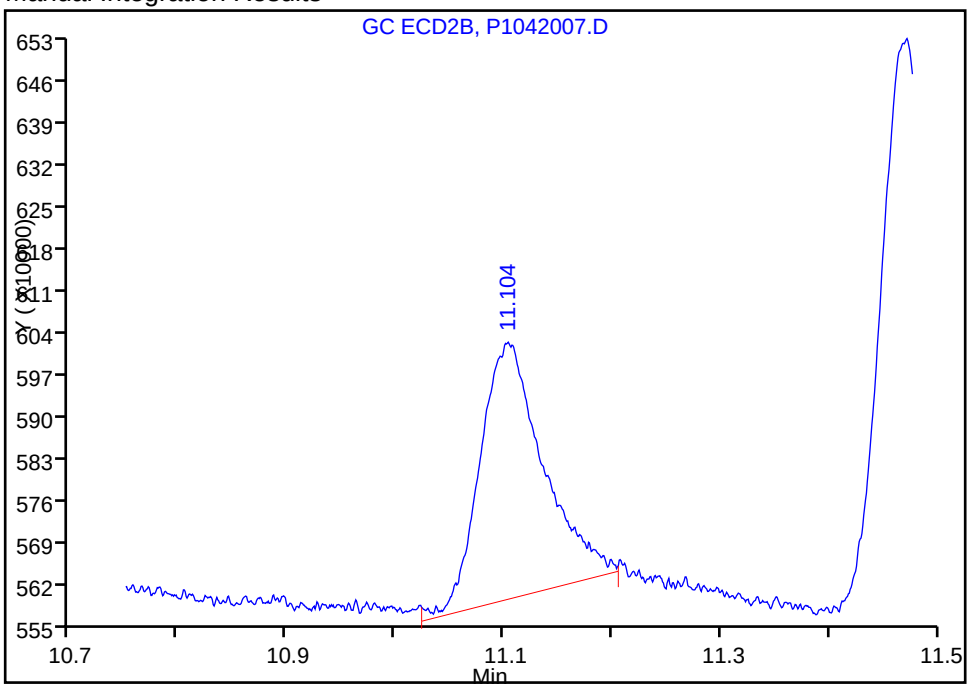
Processing Integration Results

RT: 11.09
Area: 0
Amount: 0
Amount Units: ng/ul



Manual Integration Results

RT: 11.10
Area: 1744864
Amount: 0.023773
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:34:41
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Baseline Event

Manual Integration/User Assign Peak Report

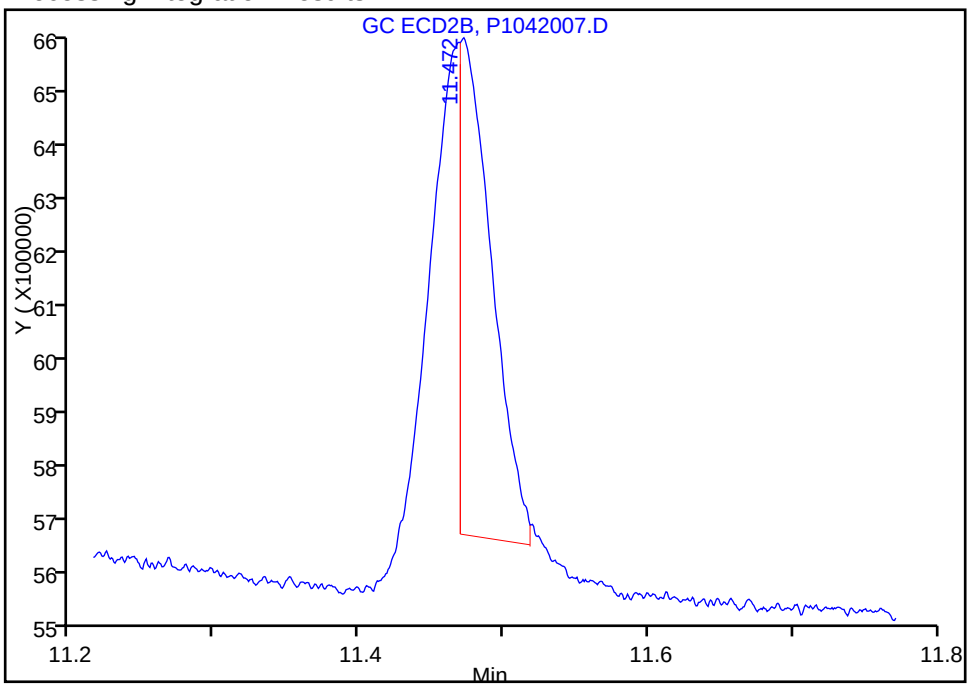
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042007.D
Injection Date: 20-Apr-2015 14:50:47 Instrument ID: A2HP1
Lims ID: STD1 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ecd2b

8 Dinoseb, CAS: 88-85-7

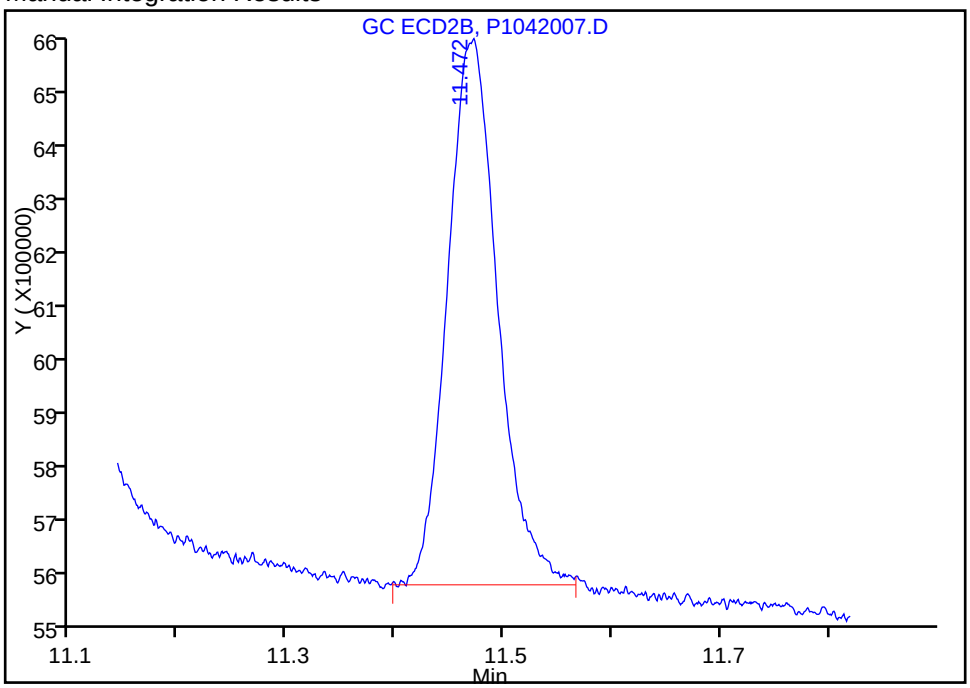
Processing Integration Results

RT: 11.47
Area: 1270263
Amount: 0.001162
Amount Units: ng/ul



Manual Integration Results

RT: 11.47
Area: 3072903
Amount: 0.002607
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:34:41
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042008.D
Lims ID: STD2 HERB
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Apr-2015 15:14:36 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-008
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:38 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 15:34:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.274	-0.001	3736669	0.0200	0.0212	M
2	1.440	1.440	0.000	13267944	0.0200	0.0203	M
						RPD = 4.60	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.978	6.977	0.001	4937240	0.0400	0.0397	
2	7.690	7.690	0.000	13006538	0.0400	0.0408	
						RPD = 2.87	
6 Dicamba							
1	7.143	7.143	0.000	9267881	0.0200	0.0207	
2	7.855	7.854	0.001	30138674	0.0200	0.0208	
						RPD = 0.71	
10 MCPP							
1	7.424	7.424	0.000	1957570	4.00	4.10	
2	8.039	8.037	0.002	8090387	4.00	4.45	
						RPD = 8.34	
9 MCPA							
1	7.587	7.585	0.002	3349531	4.00	4.50	
2	8.293	8.291	0.002	12524350	4.00	4.82	
						RPD = 6.90	
7 Dichlorprop							
1	7.956	7.956	0.000	4437165	0.0400	0.0428	
2	8.658	8.657	0.001	14003741	0.0400	0.0441	
						RPD = 2.93	
2 2,4-D							
1	8.193	8.192	0.001	4931182	0.0400	0.0407	
2	9.018	9.016	0.002	13304319	0.0400	0.0389	
						RPD = 4.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.066	-0.001	6288845	0.0100	0.009853	
2	9.960	9.958	0.002	18251924	0.0100	0.009127	
						RPD = 7.65	
1 2,4,5-T							
1	9.383	9.380	0.003	4903457	0.0100	0.0099	
2	10.441	10.438	0.003	12826527	0.0100	0.009517	
						RPD = 4.08	
3 2,4-DB							M
1	10.008	10.006	0.002	1547735	0.0400	0.0375	
2	11.095	11.093	0.002	4125374	0.0400	0.0370	M
						RPD = 1.29	
8 Dinoseb							
1	11.226	11.226	0.000	2233317	0.006000	0.005469	
2	11.468	11.467	0.001	5758789	0.006000	0.004886	
						RPD = 11.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

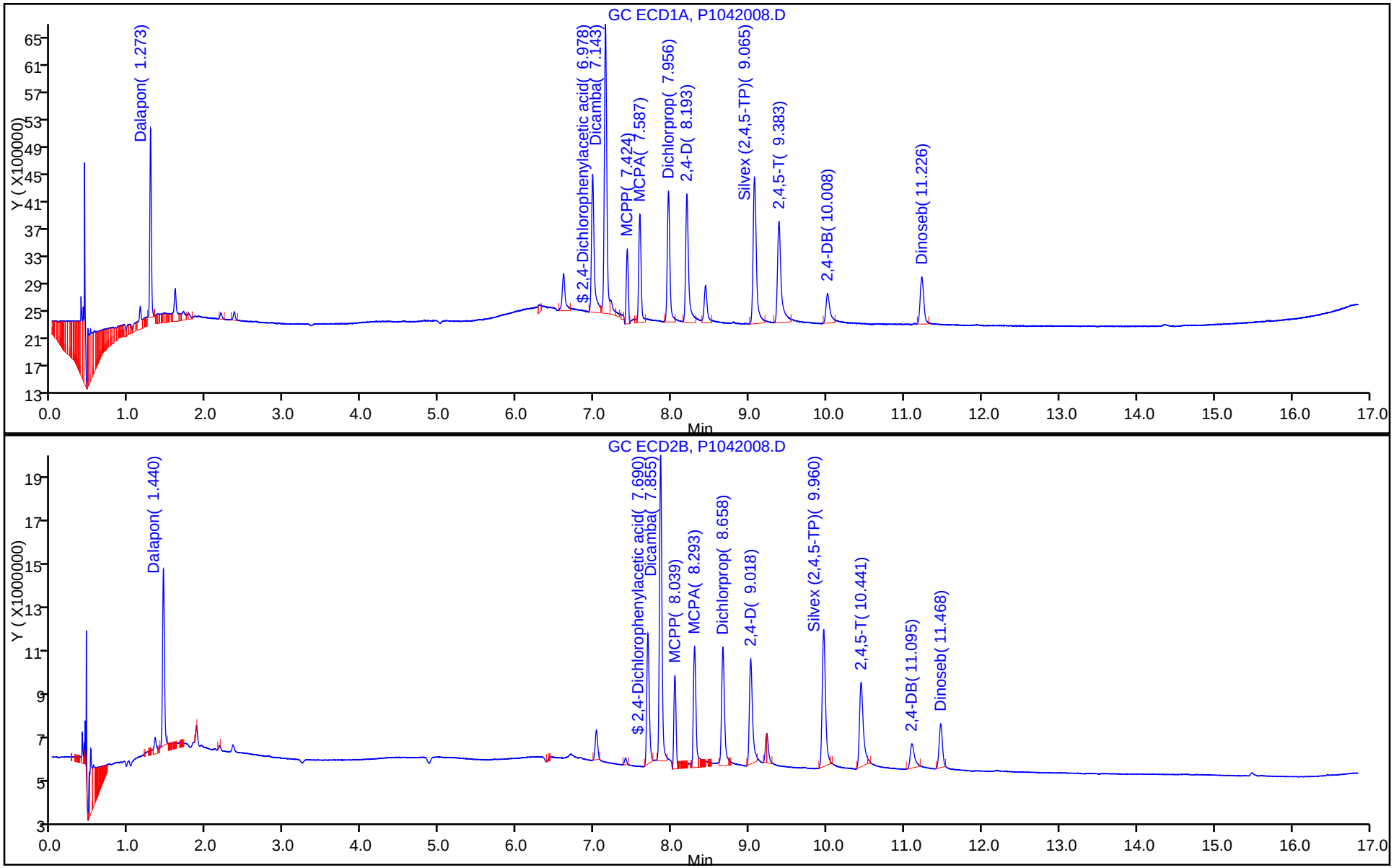
SGHERBL2_00011 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:40 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042008.D

Injection Date:	20-Apr-2015 15:14:36	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD2 HERB			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8151_1	Limit Group:	GC 8151 DOD		



Manual Integration/User Assign Peak Report

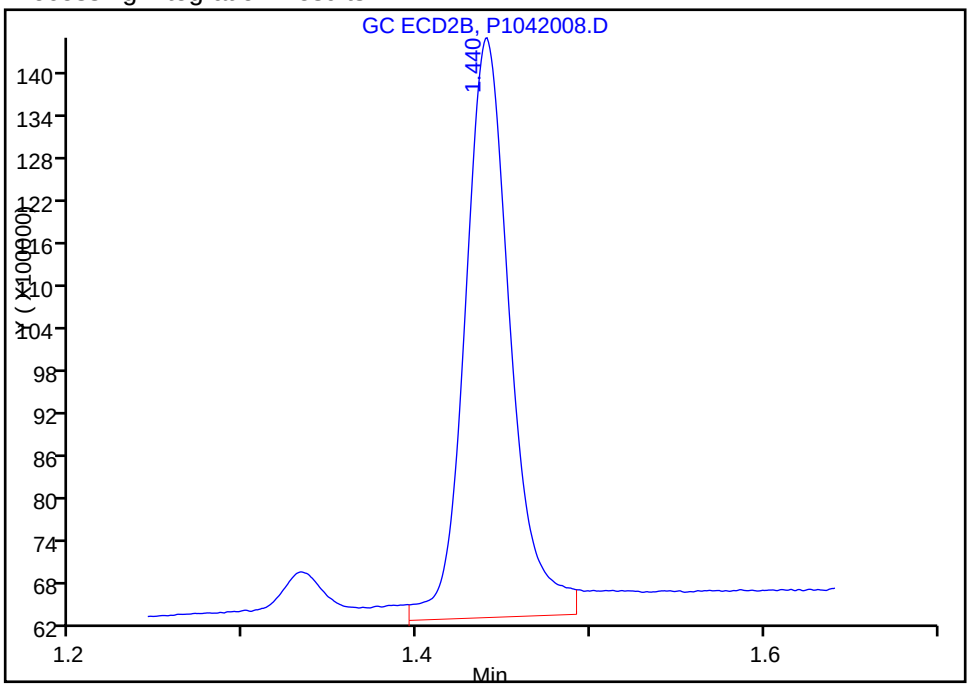
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042008.D
Injection Date: 20-Apr-2015 15:14:36 Instrument ID: A2HP1
Lims ID: STD2 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ecd2b

5 Dalapon, CAS: 75-99-0

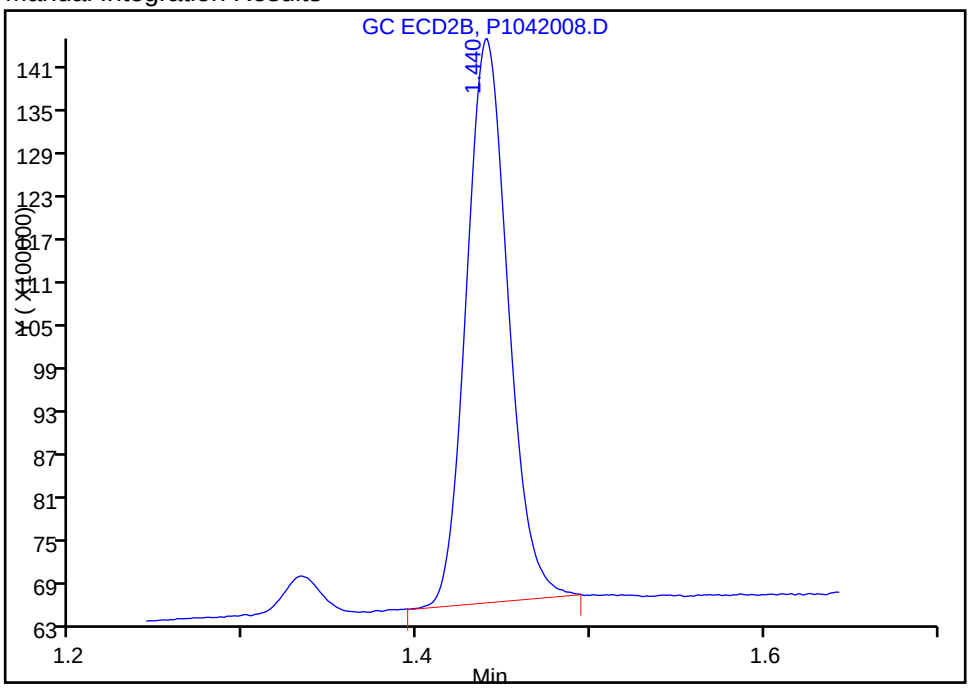
Processing Integration Results

RT: 1.44
Area: 14840102
Amount: 0.022310
Amount Units: ng/ul



Manual Integration Results

RT: 1.44
Area: 13267944
Amount: 0.020289
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:30:56
Audit Action: Manually Integrated
Audit Reason: Baseline Event

Manual Integration/User Assign Peak Report

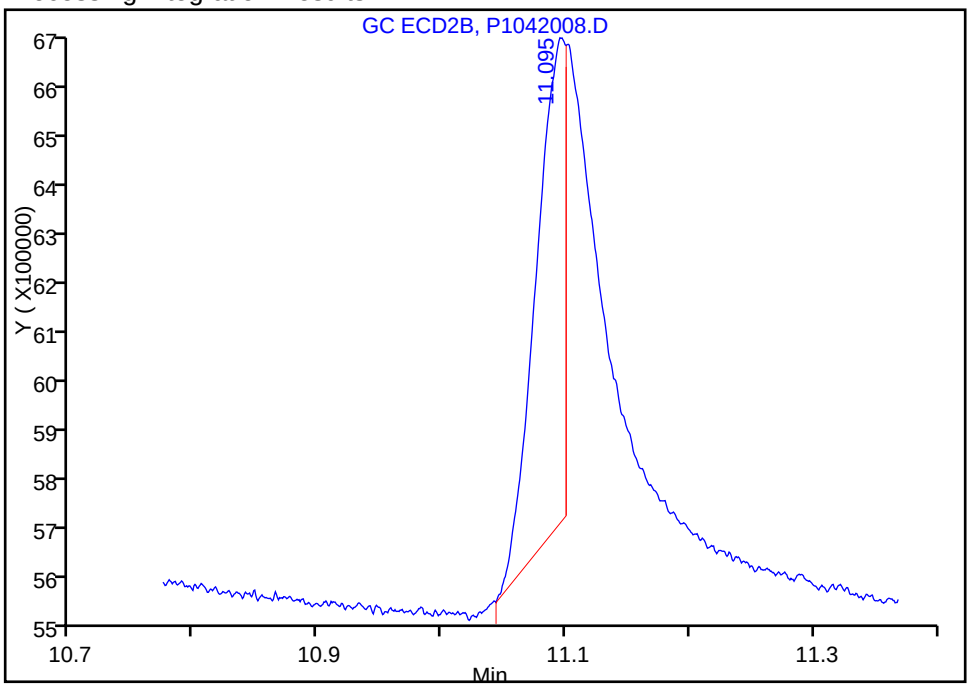
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042008.D
Injection Date: 20-Apr-2015 15:14:36 Instrument ID: A2HP1
Lims ID: STD2 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ecd2b

3 2,4-DB, CAS: 94-82-6

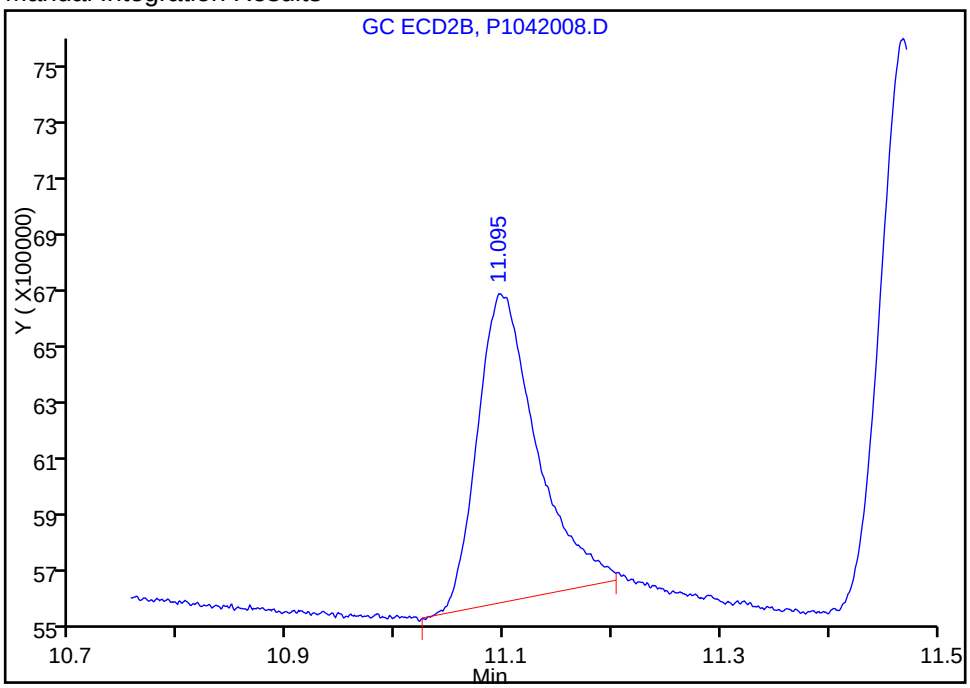
Processing Integration Results

RT: 11.10
Area: 1556931
Amount: 0.050615
Amount Units: ng/ul



Manual Integration Results

RT: 11.10
Area: 4125374
Amount: 0.037040
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:30:56
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042009.D
Lims ID: STD3 HERB
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 20-Apr-2015 15:38:28 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-009
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:42 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 16:26:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.274	1.274	0.000	7236839	0.0400	0.0411	
2	1.440	1.440	0.000	27866522	0.0400	0.0426	
						RPD = 3.51	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.977	6.977	0.000	9201324	0.0800	0.0829	
2	7.690	7.690	0.000	27653524	0.0800	0.0868	
						RPD = 4.69	
6 Dicamba							
1	7.143	7.143	0.000	18089191	0.0400	0.0404	
2	7.854	7.854	0.000	60950727	0.0400	0.0421	
						RPD = 4.25	
10 MCPP							
1	7.424	7.424	0.000	4297531	8.00	8.99	
2	8.037	8.037	0.000	16048899	8.00	8.83	
						RPD = 1.80	
9 MCPA							
1	7.585	7.585	0.000	6354220	8.00	8.53	
2	8.291	8.291	0.000	21882600	8.00	8.42	
						RPD = 1.33	
7 Dichlorprop							
1	7.956	7.956	0.000	8748751	0.0800	0.0845	
2	8.657	8.657	0.000	26540736	0.0800	0.0836	
						RPD = 1.03	
2 2,4-D							
1	8.192	8.192	0.000	10126737	0.0800	0.0835	
2	9.016	9.016	0.000	30400343	0.0800	0.0853	
						RPD = 2.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.066	9.066	0.000	12842219	0.0200	0.0201	
2	9.958	9.958	0.000	39994991	0.0200	0.0200	
						RPD = 0.60	
1 2,4,5-T							
1	9.380	9.380	0.000	10370175	0.0200	0.0193	
2	10.438	10.438	0.000	30000686	0.0200	0.0188	
						RPD = 2.72	
3 2,4-DB							M
1	10.006	10.006	0.000	3730894	0.0800	0.0733	
2	11.093	11.093	0.000	10531005	0.0800	0.0727	M
						RPD = 0.80	
8 Dinoseb							
1	11.226	11.226	0.000	5004251	0.0120	0.0123	
2	11.467	11.467	0.000	13530409	0.0120	0.0115	
						RPD = 6.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

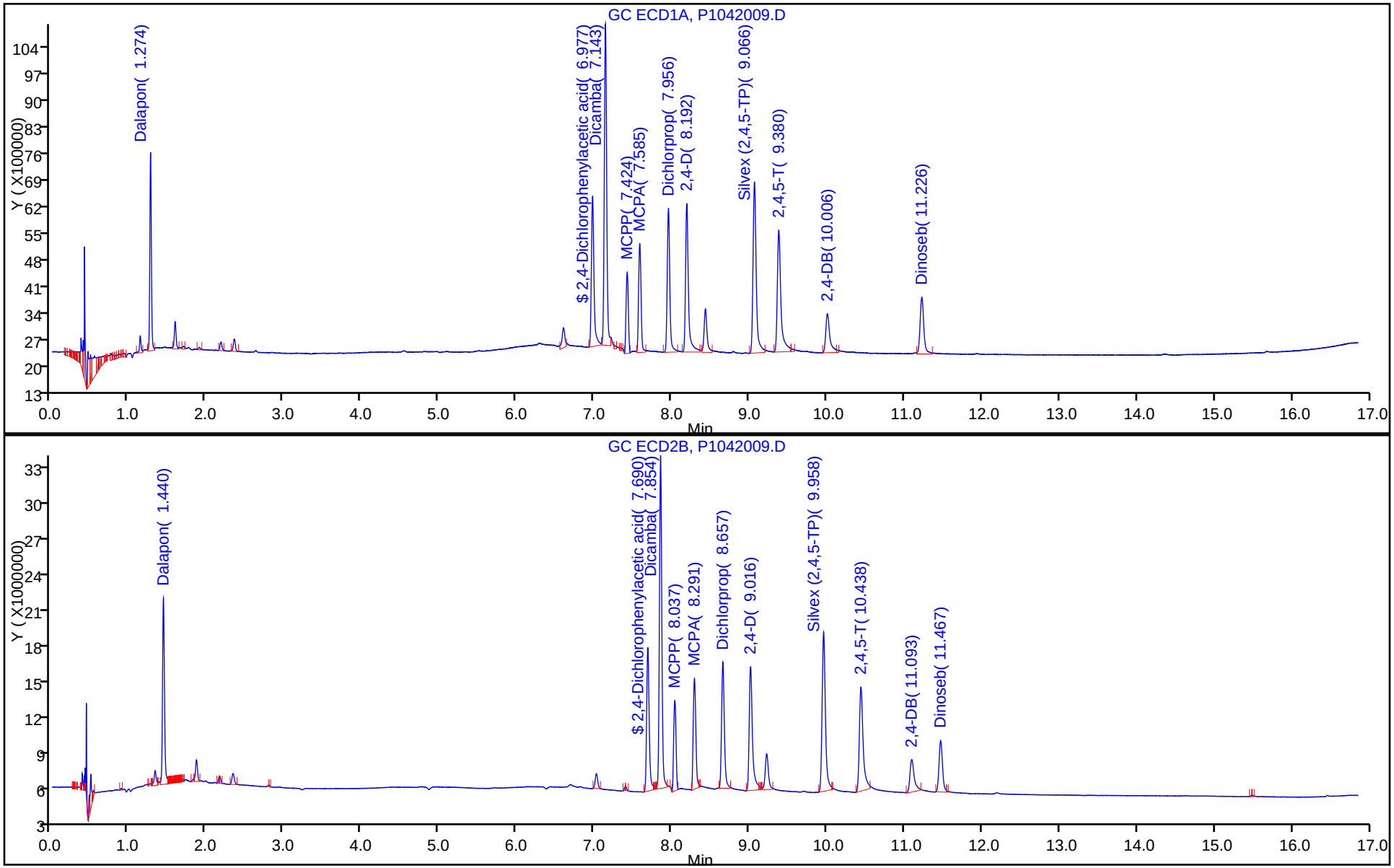
SGHERBL3_00018 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042009.D

Injection Date:	20-Apr-2015 15:38:28	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD3 HERB			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8151_1	Limit Group:	GC 8151 DOD		



Manual Integration/User Assign Peak Report

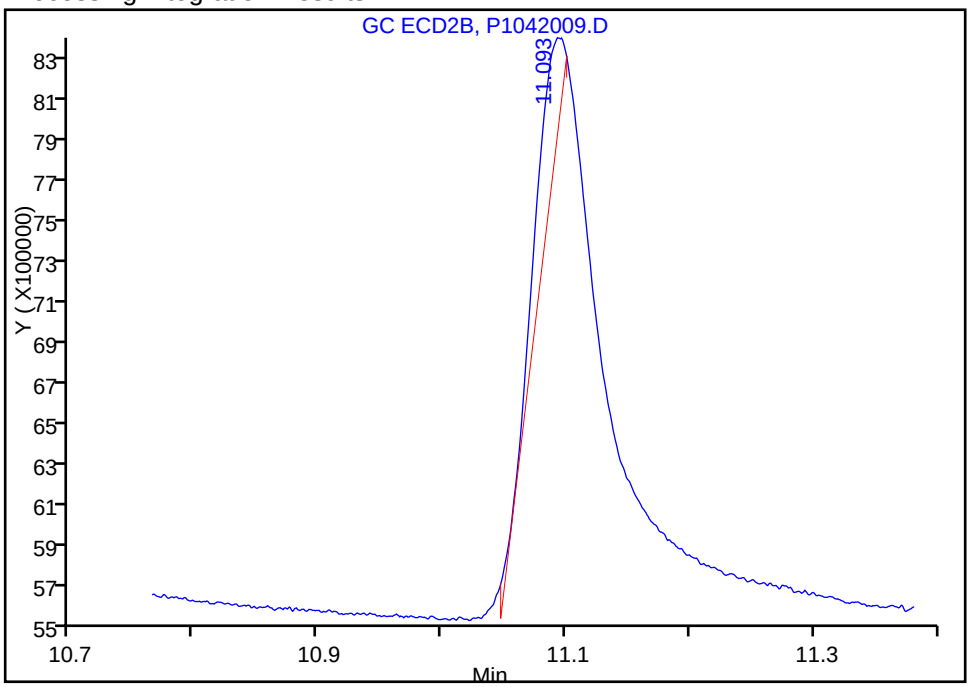
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042009.D
Injection Date: 20-Apr-2015 15:38:28 Instrument ID: A2HP1
Lims ID: STD3 HERB
Client ID:
Operator ID: 001754 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ecd2b

3 2,4-DB, CAS: 94-82-6

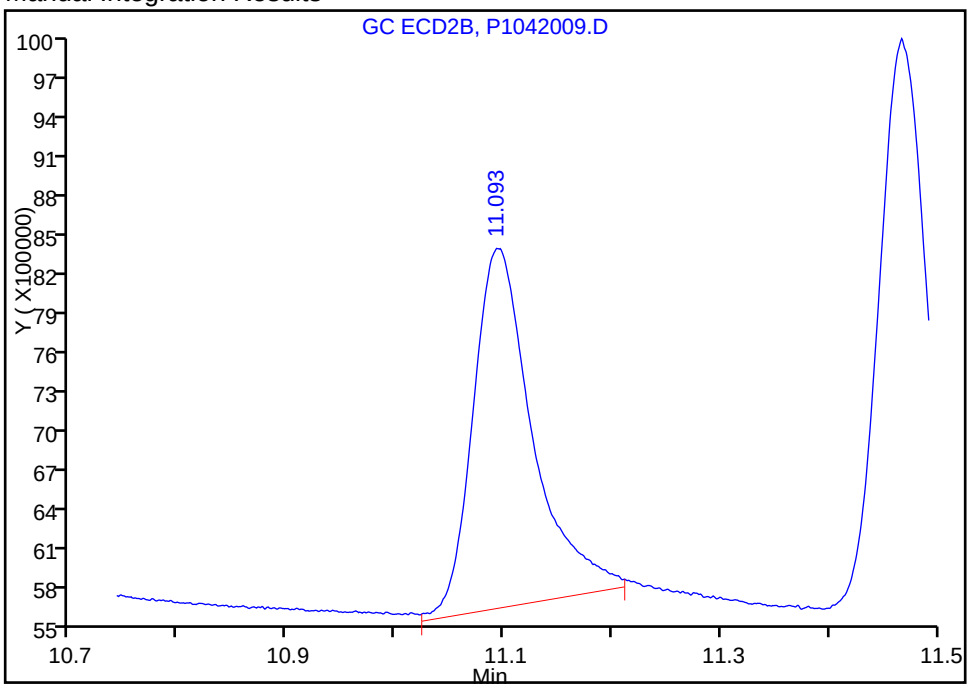
Processing Integration Results

RT: 11.09
Area: 979839
Amount: 0.039199
Amount Units: ng/ul



Manual Integration Results

RT: 11.09
Area: 10531005
Amount: 0.072740
Amount Units: ng/ul



Reviewer: bolgrind, 21-Apr-2015 11:31:16
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042010.D
Lims ID: STD4 HERB
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Apr-2015 16:02:18 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-010
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:44 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 16:26:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.274	1.274	0.000	13586254	0.0800	0.0772	
2	1.440	1.440	0.000	52226867	0.0800	0.0799	
						RPD = 3.34	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.977	-0.002	17779625	0.1600	0.1697	
2	7.689	7.690	-0.001	51631987	0.1600	0.1621	
						RPD = 4.57	
6 Dicamba							
1	7.142	7.143	-0.001	36300214	0.0800	0.0810	
2	7.855	7.854	0.001	115244712	0.0800	0.0796	
						RPD = 1.70	
10 MCPP							
1	7.423	7.424	-0.001	7975728	16.0	16.7	
2	8.038	8.037	0.001	28724041	16.0	15.8	
						RPD = 5.42	
9 MCPA							
1	7.585	7.585	0.000	10898961	16.0	14.6	
2	8.290	8.291	-0.001	37172995	16.0	14.3	
						RPD = 2.29	
7 Dichlorprop							
1	7.953	7.956	-0.003	16435758	0.1600	0.1587	
2	8.657	8.657	0.000	52338156	0.1600	0.1649	
						RPD = 3.82	
2 2,4-D							
1	8.191	8.192	-0.001	20041288	0.1600	0.1653	
2	9.014	9.016	-0.002	62750882	0.1600	0.1730	
						RPD = 4.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.066	-0.001	26457067	0.0400	0.0415	
2	9.957	9.958	-0.001	84236612	0.0400	0.0421	
						RPD = 1.61	
1 2,4,5-T							
1	9.377	9.380	-0.003	22592570	0.0400	0.0404	
2	10.436	10.438	-0.002	68979357	0.0400	0.0399	
						RPD = 1.18	
3 2,4-DB							
1	10.005	10.006	-0.001	8885400	0.1600	0.1578	
2	11.091	11.093	-0.002	25326291	0.1600	0.1552	
						RPD = 1.69	
8 Dinoseb							
1	11.222	11.226	-0.004	10265151	0.0240	0.0251	
2	11.467	11.467	0.000	29737211	0.0240	0.0252	
						RPD = 0.35	

Reagents:

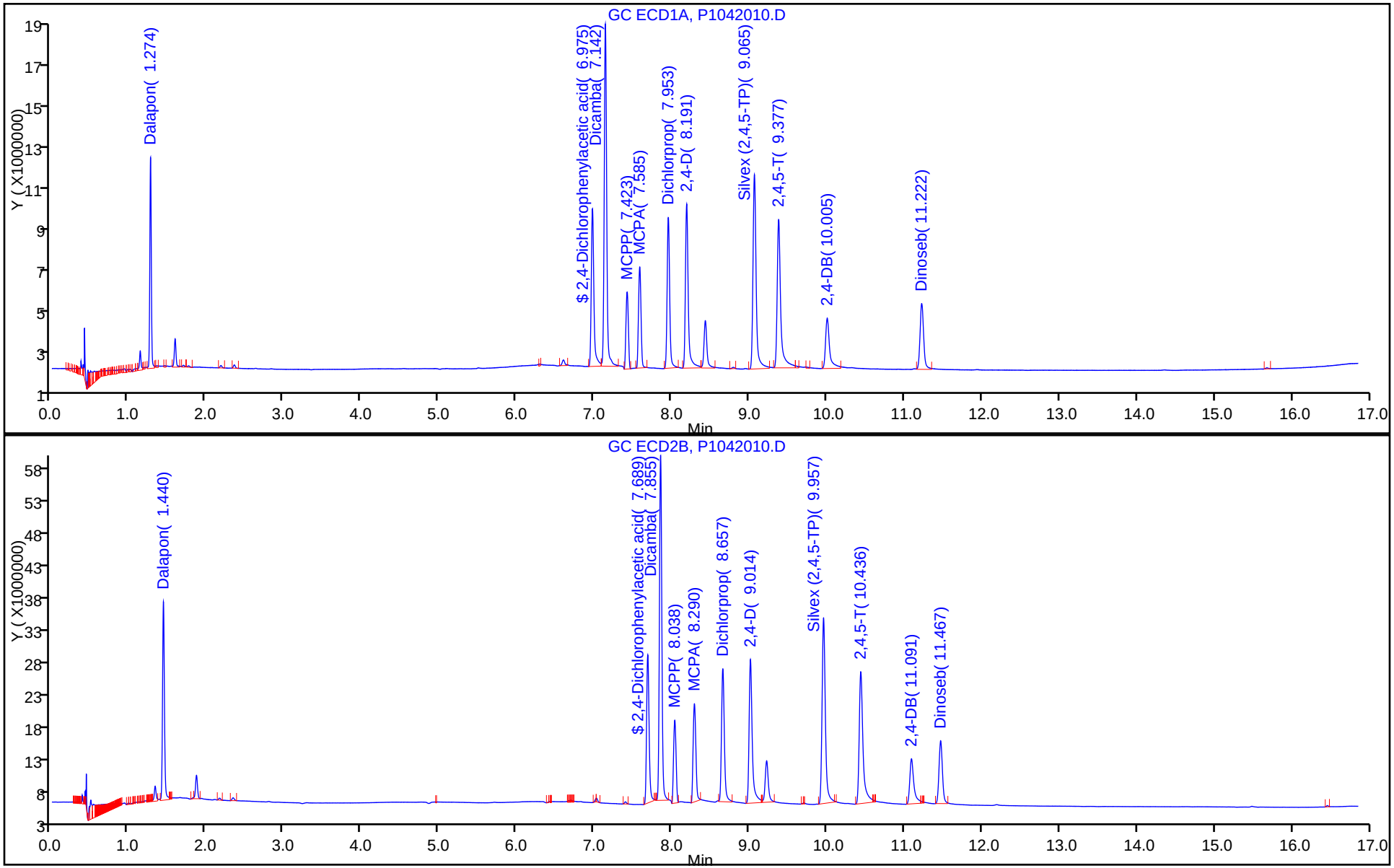
SGHERBL4_00011 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042010.D

Injection Date:	20-Apr-2015 16:02:18	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD4 HERB			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8151_1	Limit Group:	GC 8151 DOD		



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042011.D
Lims ID: STD5 HERB
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Apr-2015 16:26:06 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-011
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:46 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 21-Apr-2015 11:31:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.274	-0.001	16689946	0.1000	0.0949	
2	1.440	1.440	0.000	65467196	0.1000	0.1001	
						RPD = 5.36	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.977	-0.002	21724048	0.2000	0.2096	
2	7.688	7.690	-0.002	64324692	0.2000	0.2020	
						RPD = 3.72	
6 Dicamba							
1	7.142	7.143	-0.001	44710072	0.1000	0.0998	
2	7.854	7.854	0.000	142525848	0.1000	0.0985	
						RPD = 1.29	
10 MCPP							
1	7.422	7.424	-0.002	9545399	20.0	20.0	
2	8.037	8.037	0.000	33896311	20.0	18.7	
						RPD = 6.83	
9 MCPA							
1	7.585	7.585	0.000	13299249	20.0	17.9	
2	8.291	8.291	0.000	44845387	20.0	17.3	
						RPD = 3.43	
7 Dichlorprop							
1	7.954	7.956	-0.002	20501224	0.2000	0.1980	
2	8.657	8.657	0.000	63381837	0.2000	0.1997	
						RPD = 0.87	
2 2,4-D							
1	8.190	8.192	-0.002	24798966	0.2000	0.2045	
2	9.014	9.016	-0.002	76663197	0.2000	0.2107	
						RPD = 2.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.066	-0.001	32787649	0.0500	0.0514	
2	9.957	9.958	-0.001	106211747	0.0500	0.0531	
						RPD = 3.34	
1 2,4,5-T							
1	9.377	9.380	-0.003	28164666	0.0500	0.0500	
2	10.436	10.438	-0.002	85998659	0.0500	0.0491	
						RPD = 1.74	
3 2,4-DB							
1	10.004	10.006	-0.002	10874756	0.2000	0.1905	
2	11.090	11.093	-0.003	32656721	0.2000	0.1961	
						RPD = 2.89	
8 Dinoseb							
1	11.223	11.226	-0.003	12684608	0.0300	0.0311	
2	11.466	11.467	-0.001	38001801	0.0300	0.0322	
						RPD = 3.71	

Reagents:

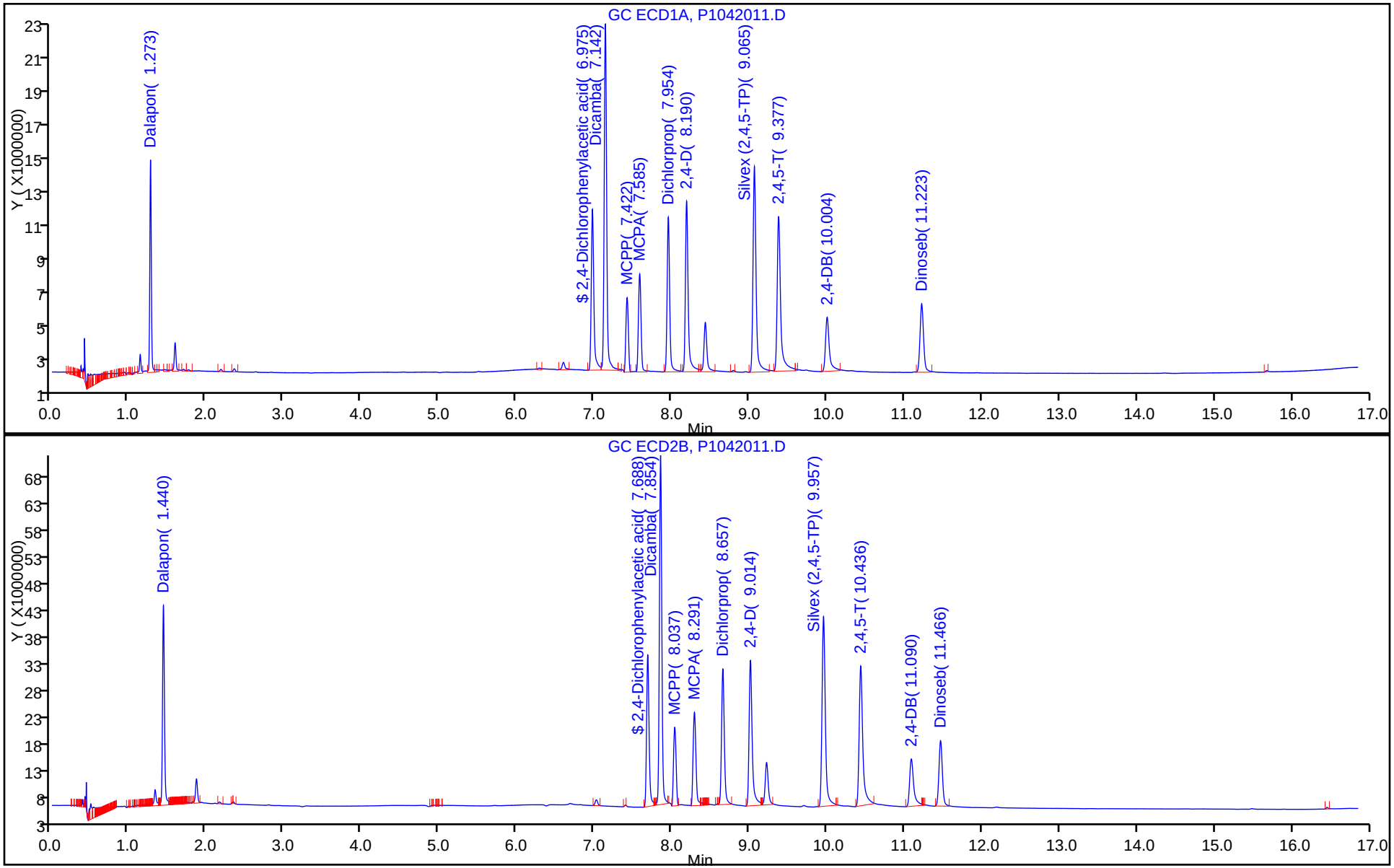
SGHERBL5_00012 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042011.D

Injection Date:	20-Apr-2015 16:26:06	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD5 HERB			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8151_1	Limit Group:	GC 8151 DOD		



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042012.D
Lims ID: STD6 HERB
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Apr-2015 16:50:02 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-012
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:48 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 21-Apr-2015 11:32:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.274	1.274	0.000	25953764	0.1600	0.1476	
2	1.440	1.440	0.000	97075594	0.1600	0.1484	
						RPD = 0.60	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.977	-0.002	33042277	0.3200	0.3242	
2	7.688	7.690	-0.002	96120554	0.3200	0.3018	
						RPD = 7.16	
6 Dicamba							
1	7.142	7.143	-0.001	69306775	0.1600	0.1547	
2	7.855	7.854	0.001	217563240	0.1600	0.1504	
						RPD = 2.83	
10 MCPP							
1	7.423	7.424	-0.001	13782219	32.0	28.8	
2	8.037	8.037	0.000	47028774	32.0	25.9	
						RPD = 10.81	
9 MCPA							
1	7.585	7.585	0.000	18647591	32.0	25.0	
2	8.291	8.291	0.000	60859475	32.0	23.4	
						RPD = 6.70	
7 Dichlorprop							
1	7.954	7.956	-0.002	31112898	0.3200	0.3004	
2	8.656	8.657	-0.001	96714836	0.3200	0.3047	
						RPD = 1.41	
2 2,4-D							
1	8.189	8.192	-0.003	38259109	0.3200	0.3155	
2	9.012	9.016	-0.004	118894120	0.3200	0.3252	
						RPD = 3.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.064	9.066	-0.002	51166851	0.0800	0.0802	
2	9.958	9.958	0.000	168494591	0.0800	0.0843	
						RPD = 4.98	
1 2,4,5-T							
1	9.376	9.380	-0.004	45133215	0.0800	0.0793	
2	10.436	10.438	-0.002	146180659	0.0800	0.0817	
						RPD = 3.09	
3 2,4-DB							
1	10.002	10.006	-0.004	18705250	0.3200	0.3189	
2	11.088	11.093	-0.005	55138275	0.3200	0.3213	
						RPD = 0.77	
8 Dinoseb							M
1	11.222	11.226	-0.004	20006098	0.0480	0.0490	M
2	11.467	11.467	0.000	62543867	0.0480	0.0531	
						RPD = 7.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

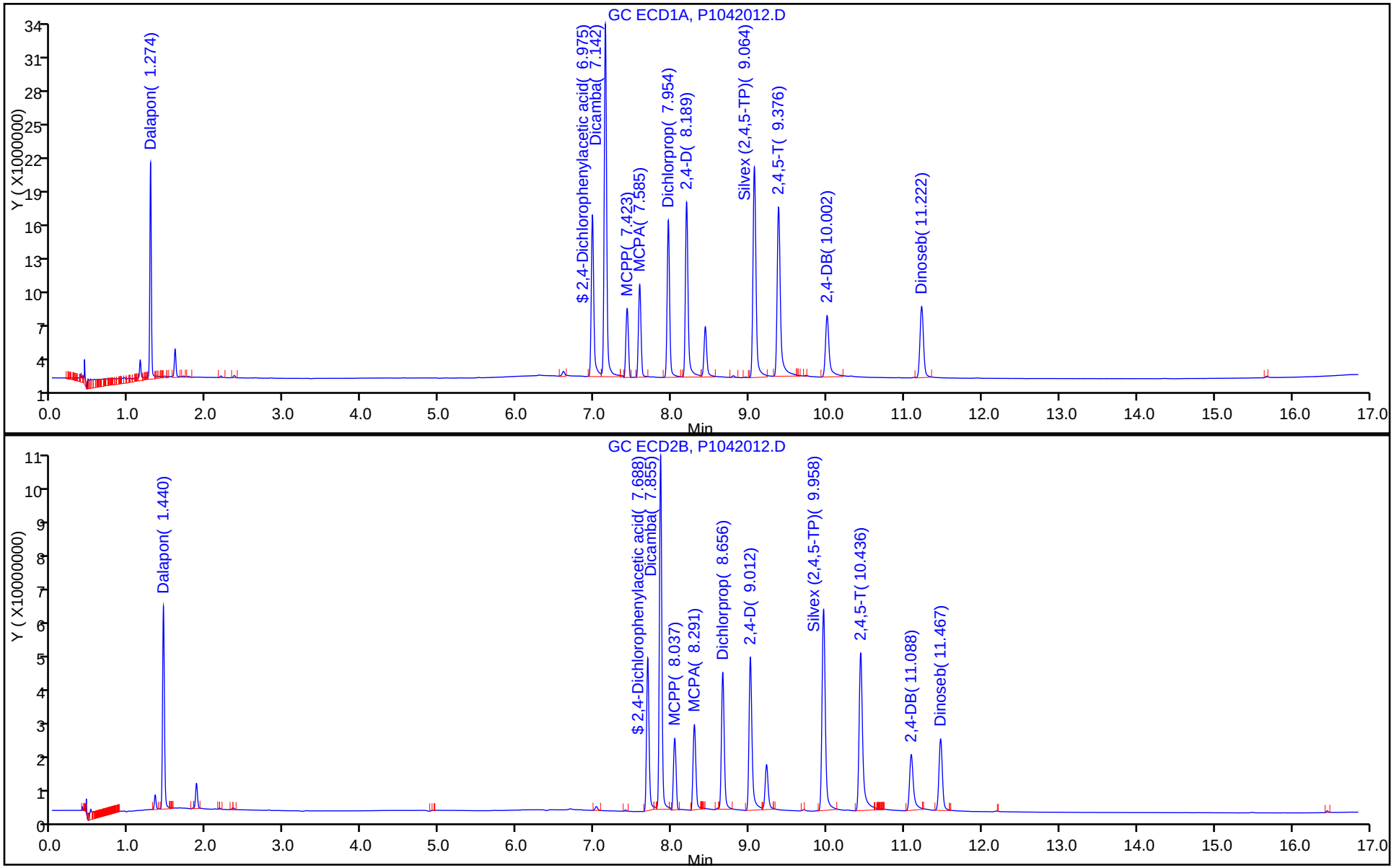
SGHERBL6_00013 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042012.D

Injection Date:	20-Apr-2015 16:50:02	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD6 HERB			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8151_1	Limit Group:	GC 8151 DOD		



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D
Lims ID: STD7 HERB
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Apr-2015 17:13:48 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-013
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:50 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 17:40:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.274	-0.001	51096880	0.3200	0.2905	
2	1.440	1.440	0.000	187166301	0.3200	0.2862	
						RPD = 1.49	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.974	6.977	-0.003	61879837	0.6400	0.6162	
2	7.686	7.690	-0.004	184485388	0.6400	0.5793	
						RPD = 6.17	
6 Dicamba							
1	7.141	7.143	-0.002	131468129	0.3200	0.2934	
2	7.853	7.854	-0.001	412925248	0.3200	0.2854	
						RPD = 2.77	
10 MCPP							
1	7.422	7.424	-0.002	23967085	64.0	50.1	
2	8.036	8.037	-0.001	79459410	64.0	43.7	
						RPD = 13.68	
9 MCPA							
1	7.583	7.585	-0.002	32551166	64.0	43.7	
2	8.289	8.291	-0.002	101650951	64.0	39.1	
						RPD = 11.10	
7 Dichlorprop							
1	7.952	7.956	-0.004	59047933	0.6400	0.5702	
2	8.656	8.657	-0.001	183596789	0.6400	0.5784	
						RPD = 1.44	
2 2,4-D							
1	8.188	8.192	-0.004	73607098	0.6400	0.6070	
2	9.011	9.016	-0.005	223852301	0.6400	0.6098	
						RPD = 0.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.062	9.066	-0.004	100916204	0.1600	0.1581	
2	9.956	9.958	-0.002	331845710	0.1600	0.1659	
						RPD = 4.84	
1 2,4,5-T							
1	9.375	9.380	-0.005	92503013	0.1600	0.1609	
2	10.433	10.438	-0.005	291286484	0.1600	0.1603	
						RPD = 0.36	
3 2,4-DB							
1	10.000	10.006	-0.006	39404931	0.6400	0.6583	
2	11.083	11.093	-0.010	114797186	0.6400	0.6538	
						RPD = 0.68	
8 Dinoseb							
1	11.222	11.226	-0.004	40419402	0.0960	0.0990	
2	11.465	11.467	-0.002	127753126	0.0960	0.1084	
						RPD = 9.06	

Reagents:

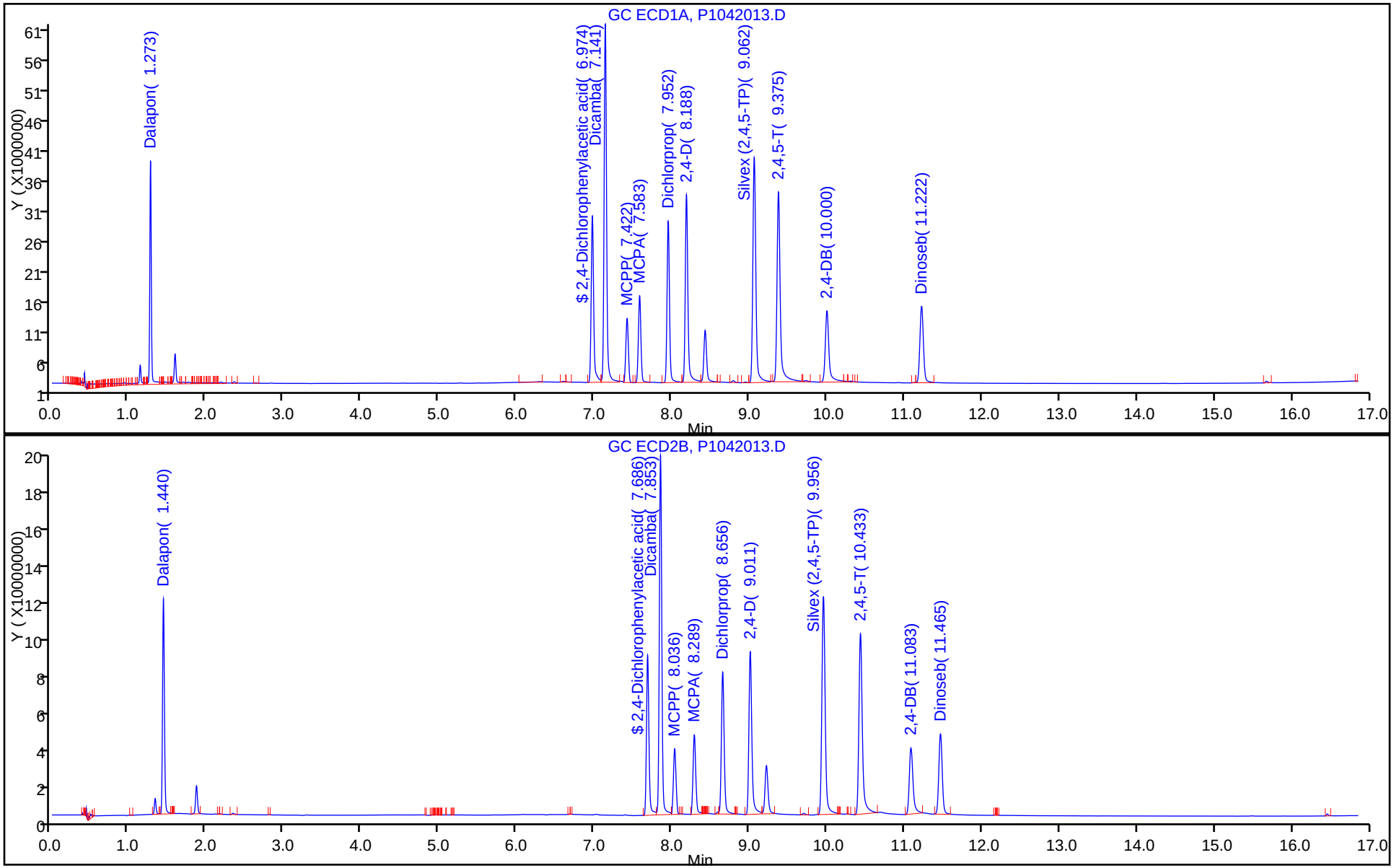
SGHERBL7_00003 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Injection Date:	20-Apr-2015 17:13:48	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	STD7 HERB			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8151_1	Limit Group:	GC 8151 DOD		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-177103/14 Calibration Date: 04/20/2015 17:37

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042014.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Ave	121269643	115292338		0.0761	0.0800	-4.9	20.0
Silvex (2,4,5-TP)	Ave	638282488	601910250		0.0189	0.0200	-5.7	20.0
2,4,5-T	Lin1		512055100		0.0191	0.0200	-4.4	20.0
2,4-Dichlorophenylacetic acid	Lin1		114424013		0.0824	0.0800	3.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-177103/14 Calibration Date: 04/20/2015 17:37

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042014.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	8.19	8.17	8.21
Silvex (2,4,5-TP)	9.07	9.05	9.09
2,4,5-T	9.38	9.36	9.40
2,4-Dichlorophenylacetic acid	6.98	6.96	7.00

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042014.D
Lims ID: ICV HERB
Client ID:
Sample Type: ICV
Inject. Date: 20-Apr-2015 17:37:37 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-014
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:50 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 18:29:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.274	-0.001	7493185	0.0400	0.0426	
2	1.440	1.440	0.000	25919212	0.0400	0.0396	
						RPD = 7.21	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.977	-0.001	9153921	0.0800	0.0824	
2	7.689	7.690	-0.001	25105947	0.0800	0.0788	
						RPD = 4.39	
6 Dicamba							
1	7.142	7.143	-0.001	18378353	0.0400	0.0410	
2	7.855	7.854	0.001	59664459	0.0400	0.0412	
						RPD = 0.54	
10 MCPP							
1	7.424	7.424	0.000	4188019	8.00	8.76	
2	8.038	8.037	0.001	15763161	8.00	8.67	
						RPD = 1.01	
9 MCPA							
1	7.585	7.585	0.000	5978165	8.00	8.03	
2	8.292	8.291	0.001	21281657	8.00	8.19	
						RPD = 1.99	
7 Dichlorprop							
1	7.954	7.956	-0.002	9096512	0.0800	0.0878	
2	8.659	8.657	0.002	28428086	0.0800	0.0896	
						RPD = 1.95	
2 2,4-D							
1	8.193	8.192	0.001	9223387	0.0800	0.0761	
2	9.015	9.016	-0.001	31606032	0.0800	0.0885	
						RPD = 15.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.066	9.066	0.000	12038205	0.0200	0.0189	
2	9.957	9.958	-0.001	37498065	0.0200	0.0188	
						RPD = 0.58	
1 2,4,5-T							
1	9.379	9.380	-0.001	10241102	0.0200	0.0191	
2	10.438	10.438	0.000	30696246	0.0200	0.0192	
						RPD = 0.42	
3 2,4-DB							
1	10.007	10.006	0.001	3629842	0.0800	0.0717	
2	11.093	11.093	0.000	10052166	0.0800	0.0701	
						RPD = 2.25	
8 Dinoseb							M
1	11.223	11.226	-0.003	4319289	0.0120	0.0106	M
2	11.467	11.467	0.000	12852702	0.0120	0.0109	
						RPD = 3.04	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

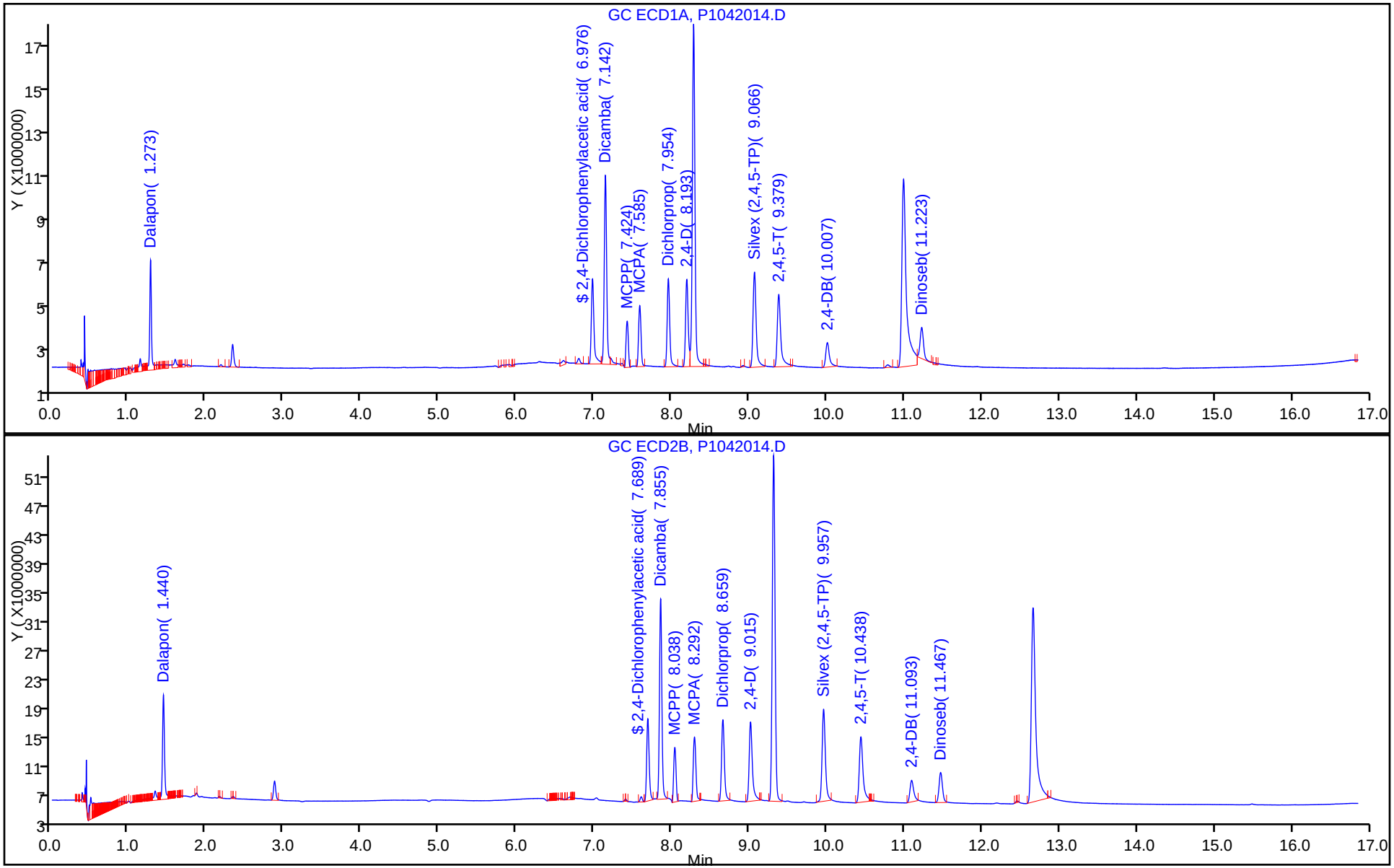
SGHERBICV_00027 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042014.D

Injection Date:	20-Apr-2015 17:37:37	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	ICV HERB			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8151_1	Limit Group:	GC 8151 DOD		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-177103/14 Calibration Date: 04/20/2015 17:37

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042014.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Lin1		395075400		0.0885	0.0800	10.7	20.0
Silvex (2,4,5-TP)	Ave	1999732695	1874903250		0.0188	0.0200	-6.2	20.0
2,4,5-T	Lin1		1534812300		0.0192	0.0200	-4.0	20.0
2,4-Dichlorophenylacetic acid	Ave	318475576	313824338		0.0788	0.0800	-1.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 240-177103/14 Calibration Date: 04/20/2015 17:37

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042014.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	9.02	9.00	9.04
Silvex (2,4,5-TP)	9.96	9.94	9.98
2,4,5-T	10.44	10.42	10.46
2,4-Dichlorophenylacetic acid	7.69	7.67	7.71

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042014.D
Lims ID: ICV HERB
Client ID:
Sample Type: ICV
Inject. Date: 20-Apr-2015 17:37:37 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042727-014
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150420-42727.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 21-Apr-2015 11:56:50 Calib Date: 20-Apr-2015 17:13:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042013.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: bolgrind Date: 20-Apr-2015 18:29:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.274	-0.001	7493185	0.0400	0.0426	
2	1.440	1.440	0.000	25919212	0.0400	0.0396	
						RPD = 7.21	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.977	-0.001	9153921	0.0800	0.0824	
2	7.689	7.690	-0.001	25105947	0.0800	0.0788	
						RPD = 4.39	
6 Dicamba							
1	7.142	7.143	-0.001	18378353	0.0400	0.0410	
2	7.855	7.854	0.001	59664459	0.0400	0.0412	
						RPD = 0.54	
10 MCPP							
1	7.424	7.424	0.000	4188019	8.00	8.76	
2	8.038	8.037	0.001	15763161	8.00	8.67	
						RPD = 1.01	
9 MCPA							
1	7.585	7.585	0.000	5978165	8.00	8.03	
2	8.292	8.291	0.001	21281657	8.00	8.19	
						RPD = 1.99	
7 Dichlorprop							
1	7.954	7.956	-0.002	9096512	0.0800	0.0878	
2	8.659	8.657	0.002	28428086	0.0800	0.0896	
						RPD = 1.95	
2 2,4-D							
1	8.193	8.192	0.001	9223387	0.0800	0.0761	
2	9.015	9.016	-0.001	31606032	0.0800	0.0885	
						RPD = 15.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.066	9.066	0.000	12038205	0.0200	0.0189	
2	9.957	9.958	-0.001	37498065	0.0200	0.0188	
						RPD = 0.58	
1 2,4,5-T							
1	9.379	9.380	-0.001	10241102	0.0200	0.0191	
2	10.438	10.438	0.000	30696246	0.0200	0.0192	
						RPD = 0.42	
3 2,4-DB							
1	10.007	10.006	0.001	3629842	0.0800	0.0717	
2	11.093	11.093	0.000	10052166	0.0800	0.0701	
						RPD = 2.25	
8 Dinoseb							M
1	11.223	11.226	-0.003	4319289	0.0120	0.0106	M
2	11.467	11.467	0.000	12852702	0.0120	0.0109	
						RPD = 3.04	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

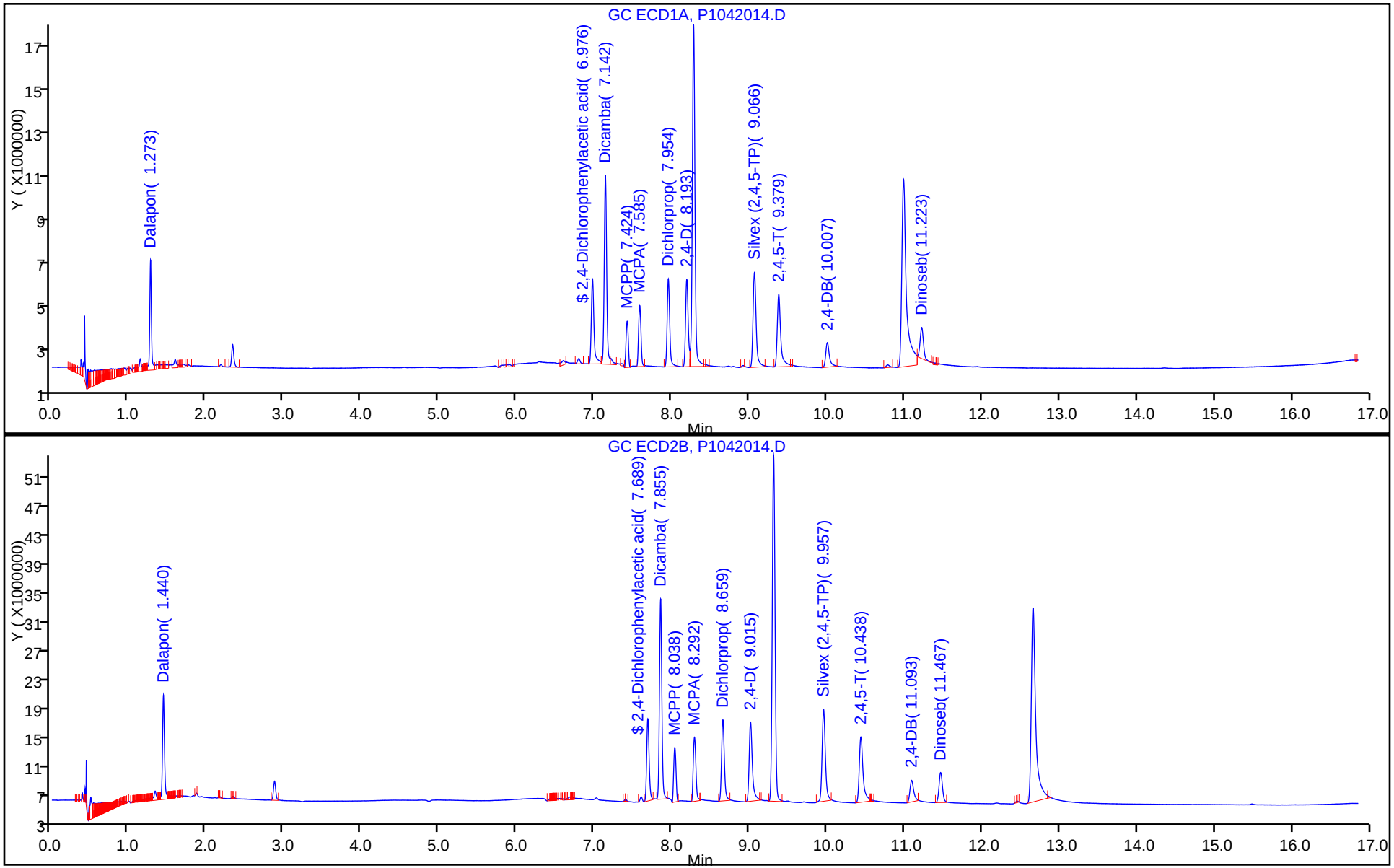
SGHERBICV_00027 Amount Added: 1.00 Units: mL

Report Date: 21-Apr-2015 11:56:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042014.D

Injection Date:	20-Apr-2015 17:37:37	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	ICV HERB			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8151_1	Limit Group:	GC 8151 DOD		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/8 Calibration Date: 04/21/2015 20:30

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042108.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Ave	121269643	128233888		0.0846	0.0800	5.7	20.0
Silvex (2,4,5-TP)	Ave	638282488	688723600		0.0216	0.0200	7.9	20.0
2,4,5-T	Lin1		598271200		0.0221	0.0200	10.4	20.0
2,4-Dichlorophenylacetic acid	Lin1		123576588		0.0898	0.0800	12.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/8 Calibration Date: 04/21/2015 20:30

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042108.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	8.19	8.17	8.21
Silvex (2,4,5-TP)	9.07	9.05	9.09
2,4,5-T	9.38	9.36	9.40
2,4-Dichlorophenylacetic acid	6.98	6.96	7.00

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042108.D
Lims ID: CCV H3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 20:30:05 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-008
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 24-Apr-2015 11:12:55 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK006

First Level Reviewer: bolgrind Date: 24-Apr-2015 11:12:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.273	0.000	7887965	0.0400	0.0448	
2	1.439	1.439	0.000	27824232	0.0400	0.0425	
						RPD = 5.26	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	9886127	0.0800	0.0898	
2	7.689	7.689	0.000	28699838	0.0800	0.0901	
						RPD = 0.37	
6 Dicamba							
1	7.142	7.142	0.000	18640742	0.0400	0.0416	
2	7.855	7.855	0.000	63750477	0.0400	0.0441	
						RPD = 5.74	
10 MCPP							
1	7.423	7.423	0.000	4301852	8.00	9.00	
2	8.038	8.038	0.000	16761003	8.00	9.22	
						RPD = 2.44	
9 MCPA							
1	7.585	7.585	0.000	6958168	8.00	9.34	
2	8.292	8.292	0.000	24273484	8.00	9.34	
						RPD = 0.04	
7 Dichlorprop							
1	7.955	7.955	0.000	8926976	0.0800	0.0862	
2	8.657	8.657	0.000	28115034	0.0800	0.0886	
						RPD = 2.72	
2 2,4-D							M
1	8.192	8.192	0.000	10258711	0.0800	0.0846	M
2	9.013	9.013	0.000	34629827	0.0800	0.0967	
						RPD = 13.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.065	0.000	13774472	0.0200	0.0216	
2	9.957	9.957	0.000	44026699	0.0200	0.0220	
						RPD = 2.00	
1 2,4,5-T							
1	9.379	9.379	0.000	11965424	0.0200	0.0221	
2	10.437	10.437	0.000	36260472	0.0200	0.0222	
						RPD = 0.55	
3 2,4-DB							
1	10.003	10.003	0.000	4906976	0.0800	0.0926	
2	11.092	11.092	0.000	14584302	0.0800	0.0953	
						RPD = 2.90	
8 Dinoseb							
1	11.225	11.225	0.000	5705128	0.0120	0.0140	
2	11.467	11.467	0.000	16858398	0.0120	0.0143	
						RPD = 2.34	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

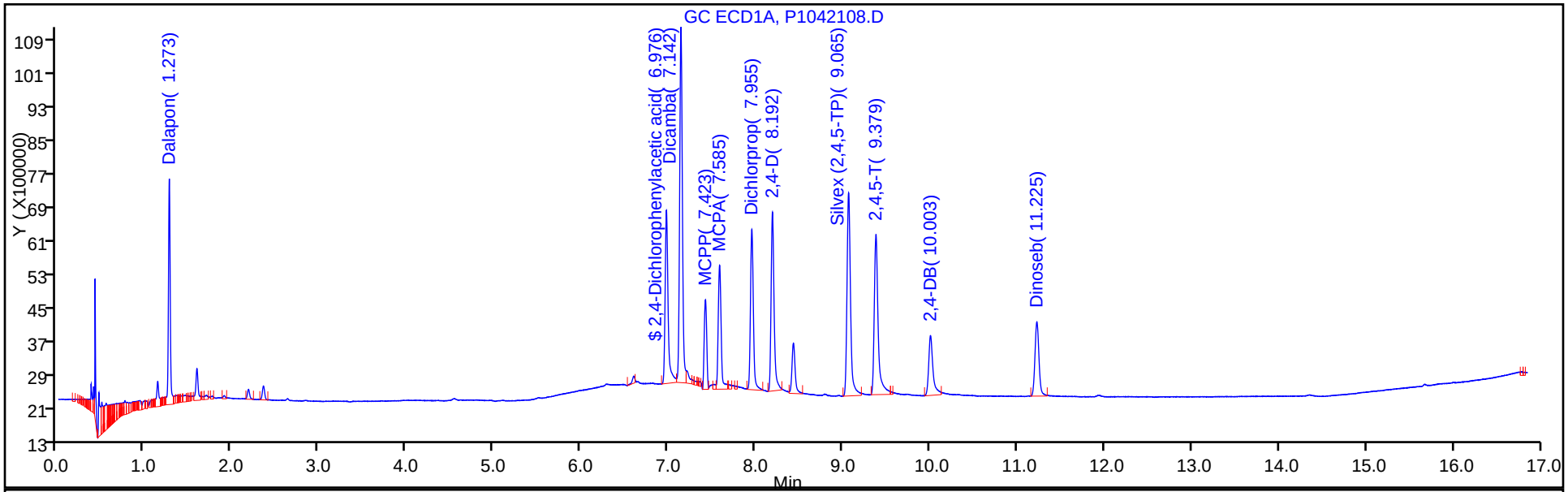
SGHERBL3_00018 Amount Added: 1.00 Units: mL

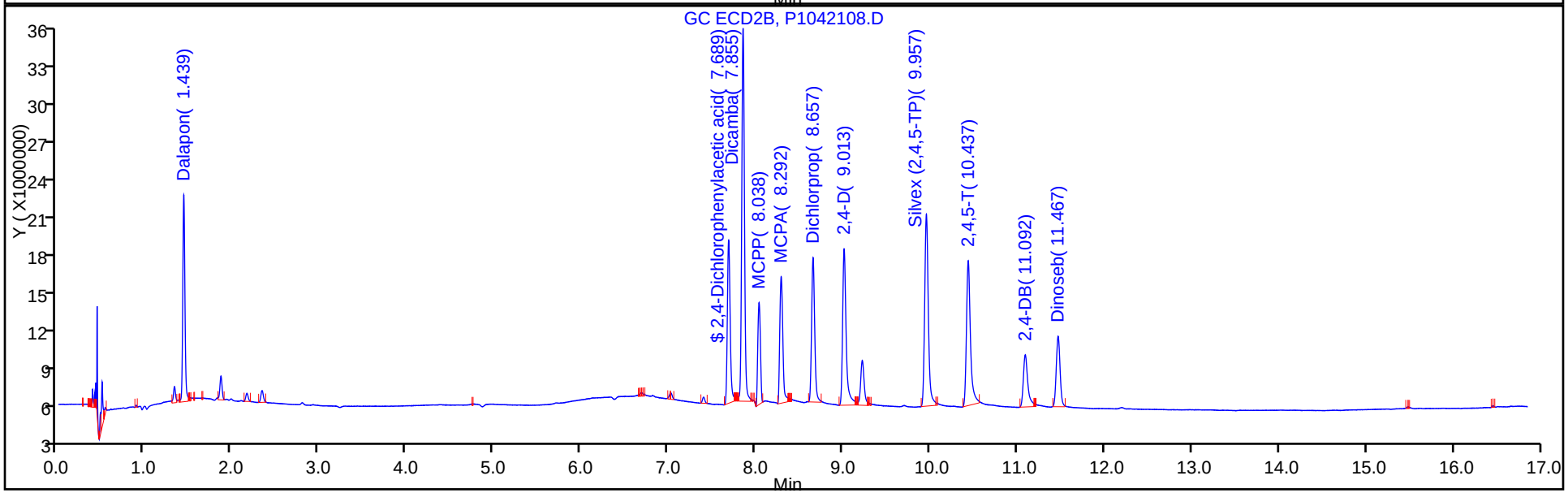
Report Date: 24-Apr-2015 11:12:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042108.D

Injection Date:	21-Apr-2015 20:30:05	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	CCV H3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8151_1	Limit Group:	GC 8151 DOD		





Manual Integration/User Assign Peak Report

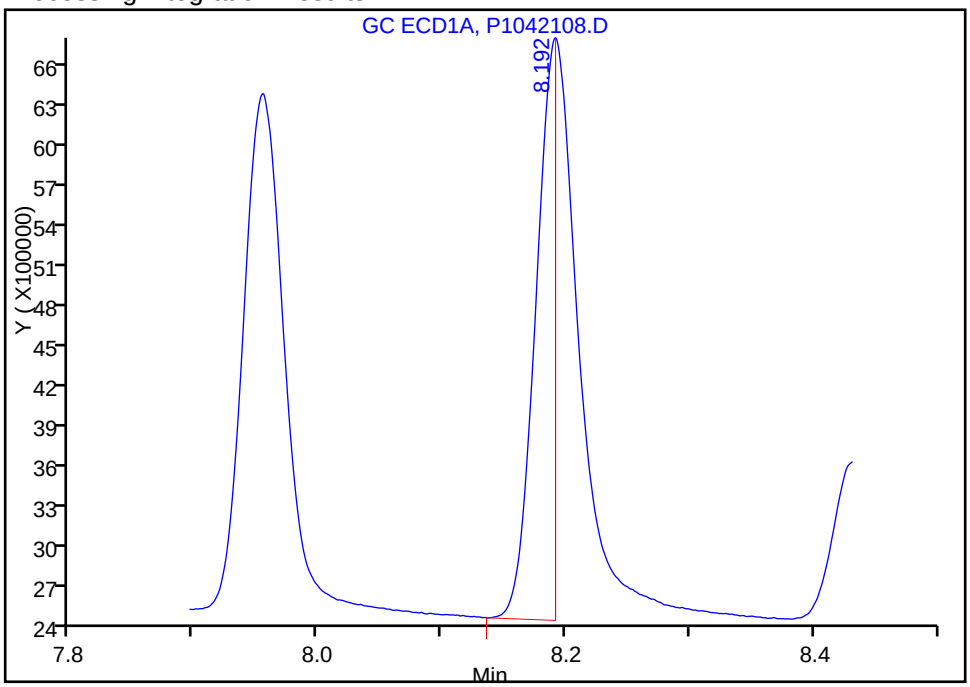
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042108.D
Injection Date: 21-Apr-2015 20:30:05 Instrument ID: A2HP1
Lims ID: CCV H3
Client ID:
Operator ID: 001754 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ECD1A

2 2,4-D, CAS: 94-75-7

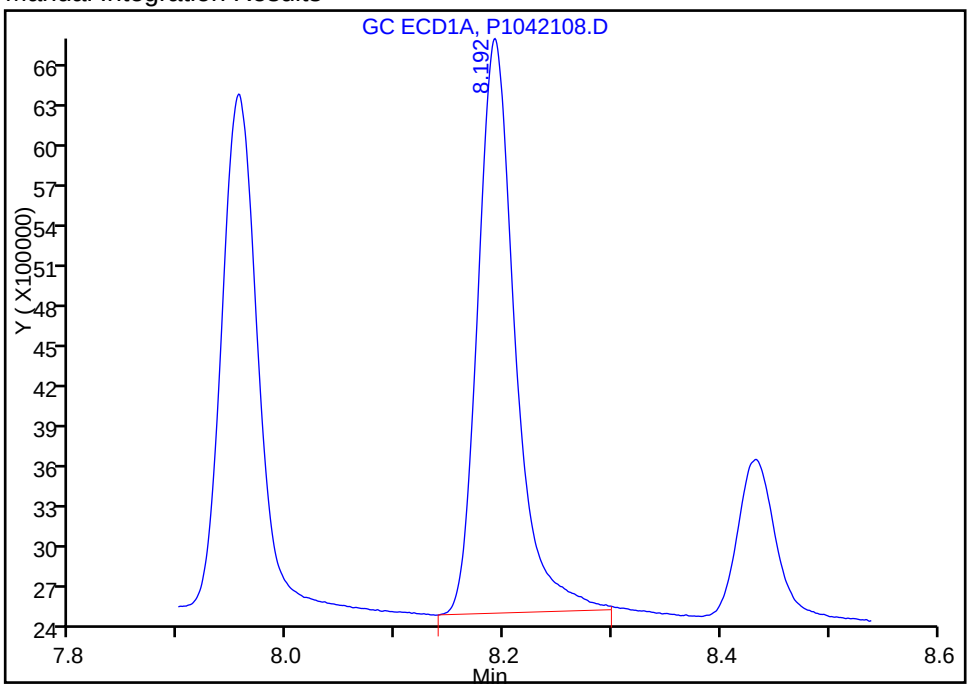
Processing Integration Results

RT: 8.19
Area: 4635576
Amount: 0.038225
Amount Units: ng/ul



Manual Integration Results

RT: 8.19
Area: 10258711
Amount: 0.084594
Amount Units: ng/ul



Reviewer: bolgrind, 24-Apr-2015 11:12:41
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/8 Calibration Date: 04/21/2015 20:30

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042108.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Lin1		432872838		0.0967	0.0800	20.9*	20.0
Silvex (2,4,5-TP)	Ave	1999732695	2201334950		0.0220	0.0200	10.1	20.0
2,4,5-T	Lin1		1813023600		0.0222	0.0200	11.0	20.0
2,4-Dichlorophenylacetic acid	Ave	318475576	358747975		0.0901	0.0800	12.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/8 Calibration Date: 04/21/2015 20:30

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042108.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	9.01	8.99	9.03
Silvex (2,4,5-TP)	9.96	9.94	9.98
2,4,5-T	10.44	10.42	10.46
2,4-Dichlorophenylacetic acid	7.69	7.67	7.71

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042108.D
Lims ID: CCV H3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 20:30:05 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-008
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 24-Apr-2015 11:12:55 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK006

First Level Reviewer: bolgrind Date: 24-Apr-2015 11:12:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.273	1.273	0.000	7887965	0.0400	0.0448	
2	1.439	1.439	0.000	27824232	0.0400	0.0425	
						RPD = 5.26	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	9886127	0.0800	0.0898	
2	7.689	7.689	0.000	28699838	0.0800	0.0901	
						RPD = 0.37	
6 Dicamba							
1	7.142	7.142	0.000	18640742	0.0400	0.0416	
2	7.855	7.855	0.000	63750477	0.0400	0.0441	
						RPD = 5.74	
10 MCPP							
1	7.423	7.423	0.000	4301852	8.00	9.00	
2	8.038	8.038	0.000	16761003	8.00	9.22	
						RPD = 2.44	
9 MCPA							
1	7.585	7.585	0.000	6958168	8.00	9.34	
2	8.292	8.292	0.000	24273484	8.00	9.34	
						RPD = 0.04	
7 Dichlorprop							
1	7.955	7.955	0.000	8926976	0.0800	0.0862	
2	8.657	8.657	0.000	28115034	0.0800	0.0886	
						RPD = 2.72	
2 2,4-D							M
1	8.192	8.192	0.000	10258711	0.0800	0.0846	M
2	9.013	9.013	0.000	34629827	0.0800	0.0967	
						RPD = 13.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.065	9.065	0.000	13774472	0.0200	0.0216	
2	9.957	9.957	0.000	44026699	0.0200	0.0220	
						RPD = 2.00	
1 2,4,5-T							
1	9.379	9.379	0.000	11965424	0.0200	0.0221	
2	10.437	10.437	0.000	36260472	0.0200	0.0222	
						RPD = 0.55	
3 2,4-DB							
1	10.003	10.003	0.000	4906976	0.0800	0.0926	
2	11.092	11.092	0.000	14584302	0.0800	0.0953	
						RPD = 2.90	
8 Dinoseb							
1	11.225	11.225	0.000	5705128	0.0120	0.0140	
2	11.467	11.467	0.000	16858398	0.0120	0.0143	
						RPD = 2.34	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

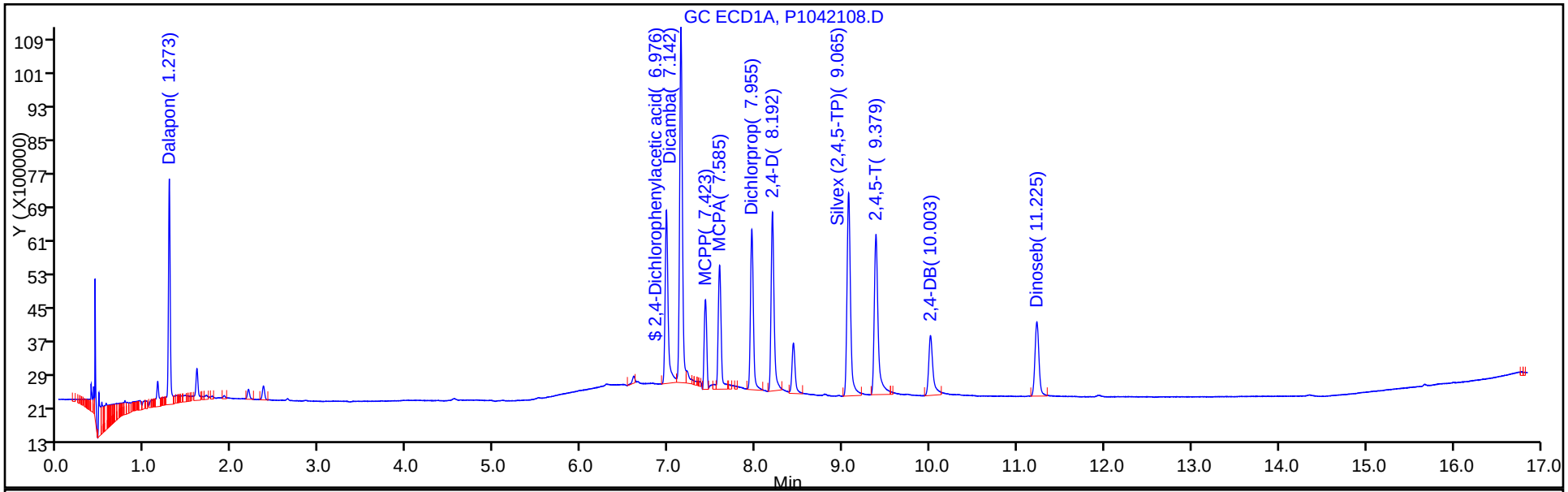
SGHERBL3_00018 Amount Added: 1.00 Units: mL

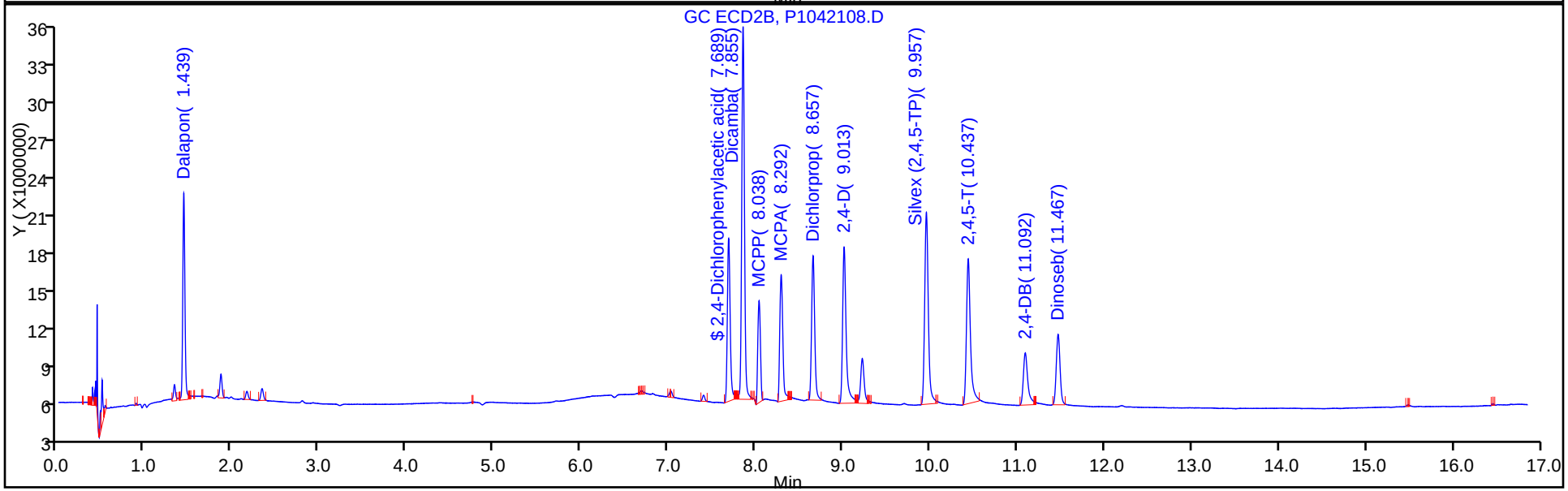
Report Date: 24-Apr-2015 11:12:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042108.D

Injection Date:	21-Apr-2015 20:30:05	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	CCV H3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/14 Calibration Date: 04/21/2015 22:52

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042114.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Ave	121269643	139299613		0.0919	0.0800	14.9	20.0
Silvex (2,4,5-TP)	Ave	638282488	702813650		0.0220	0.0200	10.1	20.0
2,4,5-T	Lin1		653406500		0.0240	0.0200	19.9	20.0
2,4-Dichlorophenylacetic acid	Lin1		134051825		0.0983	0.0800	22.8*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/14 Calibration Date: 04/21/2015 22:52

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042114.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	8.19	8.17	8.21
Silvex (2,4,5-TP)	9.06	9.04	9.08
2,4,5-T	9.38	9.36	9.40
2,4-Dichlorophenylacetic acid	6.98	6.96	7.00

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042114.D
Lims ID: CCV H3
Client ID:
Sample Type: CCV
Inject. Date: 21-Apr-2015 22:52:56 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-014
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:22 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:05:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.273	0.000	7482514	0.0400	0.0425	
2	1.439	1.439	0.000	28803980	0.0400	0.0440	M
						RPD = 3.48	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	10724146	0.0800	0.0983	
2	7.688	7.688	0.000	31286553	0.0800	0.0982	
						RPD = 0.03	
6 Dicamba							
1	7.142	7.142	0.000	19062257	0.0400	0.0425	
2	7.854	7.854	0.000	66796041	0.0400	0.0462	
						RPD = 8.17	
10 MCPP							
1	7.422	7.422	0.000	4381521	8.00	9.17	
2	8.037	8.037	0.000	17785961	8.00	9.79	
						RPD = 6.54	
9 MCPA							
1	7.585	7.585	0.000	6208711	8.00	8.34	
2	8.291	8.291	0.000	23743239	8.00	9.14	
						RPD = 9.14	
7 Dichlorprop							
1	7.954	7.954	0.000	9120335	0.0800	0.0881	
2	8.656	8.656	0.000	30034591	0.0800	0.0946	
						RPD = 7.18	
2 2,4-D							M
1	8.191	8.191	0.000	11143969	0.0800	0.0919	M
2	9.012	9.012	0.000	37355951	0.0800	0.1041	
						RPD = 12.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.064	9.064	0.000	14056273	0.0200	0.0220	
2	9.956	9.956	0.000	48200344	0.0200	0.0241	
						RPD = 9.02	
1 2,4,5-T							
1	9.376	9.376	0.000	13068130	0.0200	0.0240	
2	10.434	10.434	0.000	42216533	0.0200	0.0254	
						RPD = 5.86	
3 2,4-DB							
1	10.001	10.001	0.000	6129572	0.0800	0.1127	
2	11.088	11.088	0.000	18708713	0.0800	0.1183	
						RPD = 4.90	
8 Dinoseb							M
1	11.225	11.225	0.000	5876485	0.0120	0.0144	
2	11.467	11.467	0.000	18491463	0.0120	0.0157	M
						RPD = 8.62	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

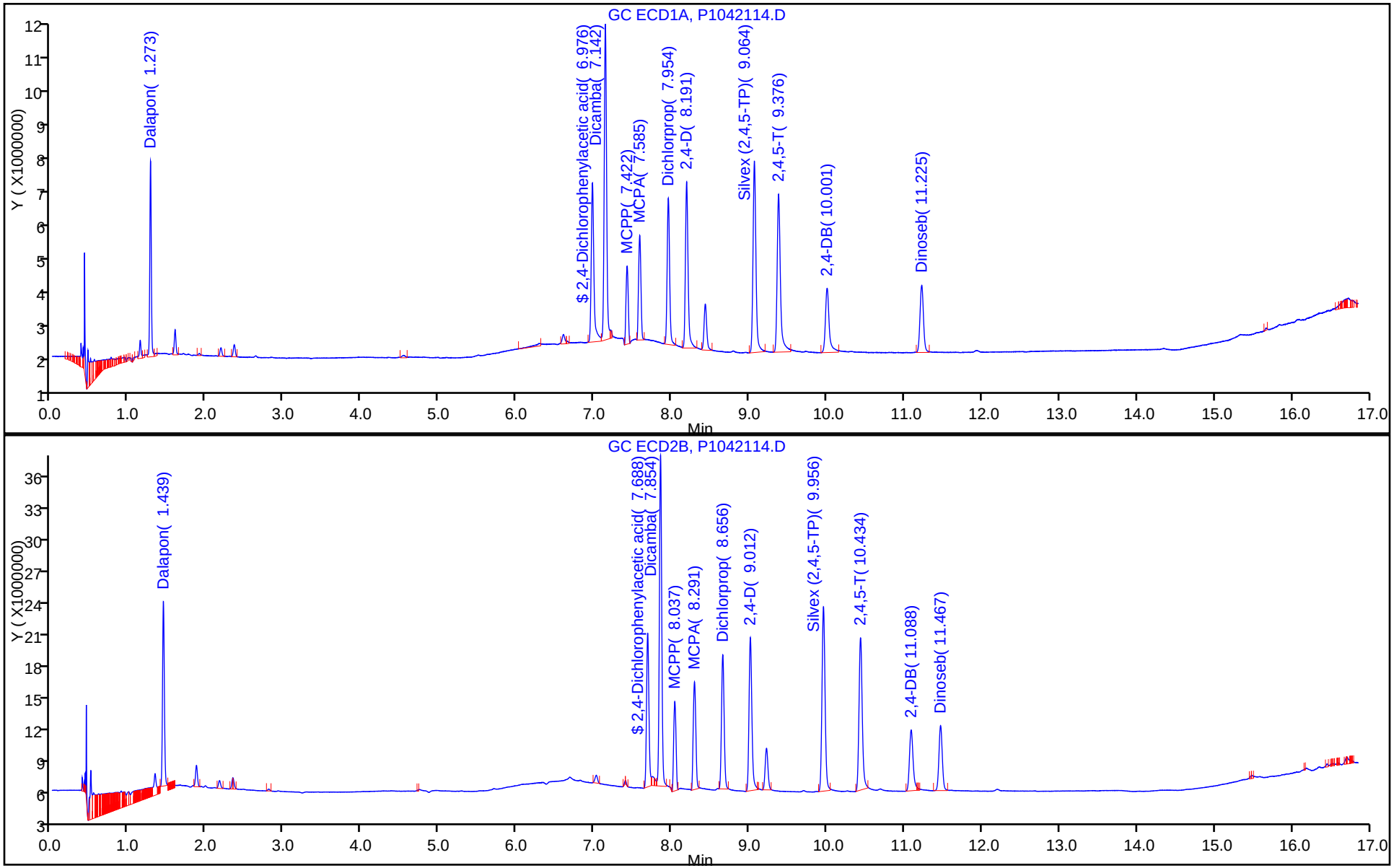
SGHERBL3_00018 Amount Added: 1.00 Units: mL

Report Date: 22-Apr-2015 11:30:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042114.D

Injection Date:	21-Apr-2015 22:52:56	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	CCV H3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8151_1	Limit Group:	GC 8151 DOD		



Manual Integration/User Assign Peak Report

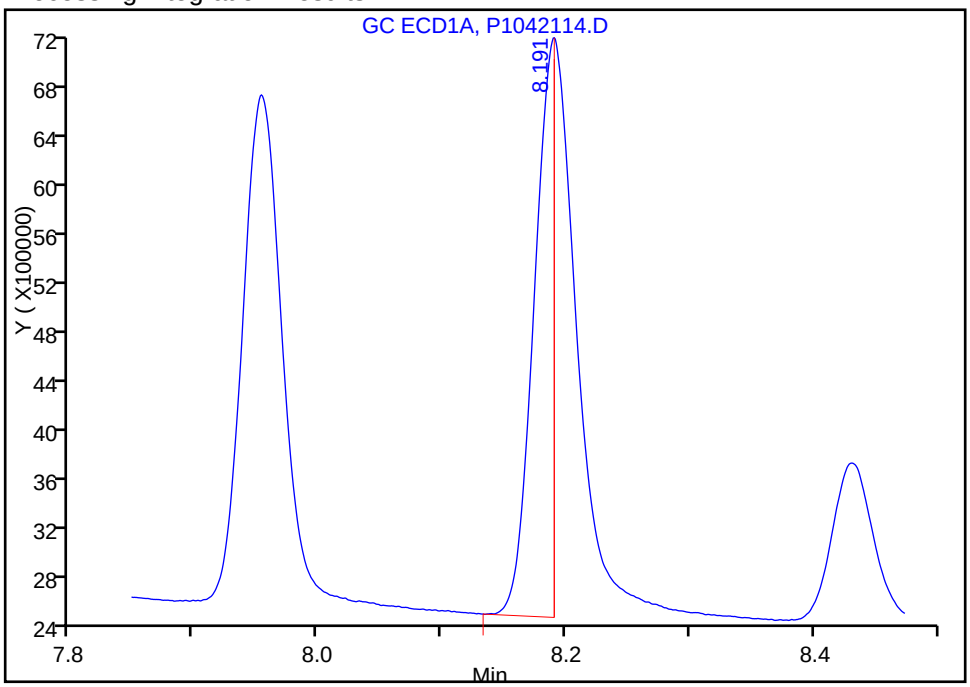
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042114.D
Injection Date: 21-Apr-2015 22:52:56 Instrument ID: A2HP1
Lims ID: CCV H3
Client ID:
Operator ID: 001754 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151_1 Limit Group: GC 8151 DOD
Column: Detector GC ECD1A

2 2,4-D, CAS: 94-75-7

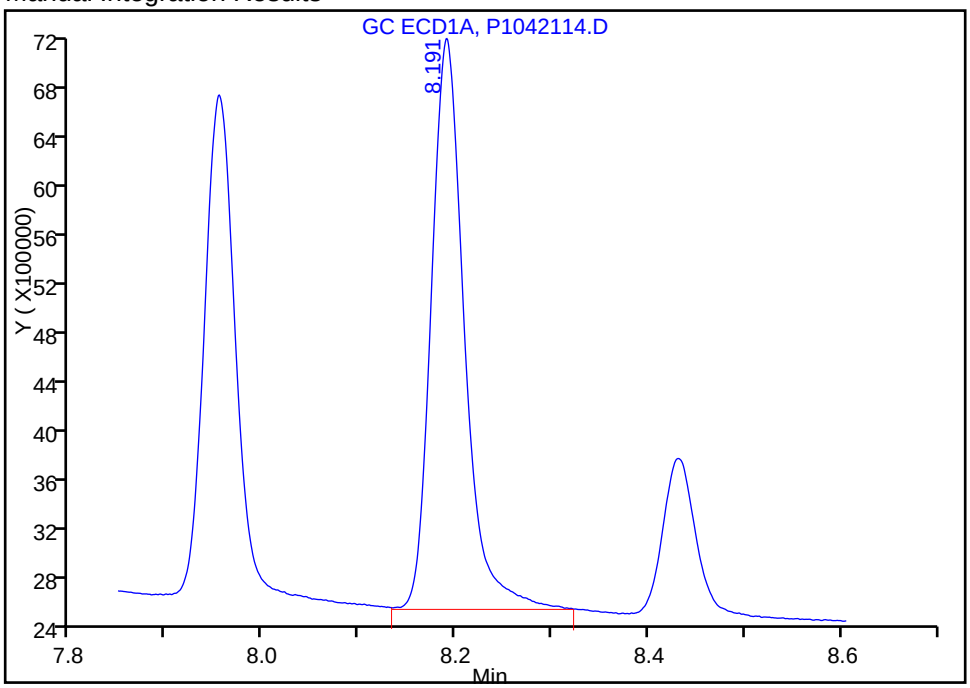
Processing Integration Results

RT: 8.19
Area: 5065489
Amount: 0.041770
Amount Units: ng/ul



Manual Integration Results

RT: 8.19
Area: 11143969
Amount: 0.091894
Amount Units: ng/ul



Reviewer: bolgrind, 22-Apr-2015 11:05:43
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/14 Calibration Date: 04/21/2015 22:52

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042114.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-D	Lin1		466949388		0.104	0.0800	30.1*	20.0
Silvex (2,4,5-TP)	Ave	1999732695	2410017200		0.0241	0.0200	20.5*	20.0
2,4,5-T	Lin1		2110826650		0.0254	0.0200	27.2*	20.0
2,4-Dichlorophenylacetic acid	Ave	318475576	391081913		0.0982	0.0800	22.8*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 240-177320/14 Calibration Date: 04/21/2015 22:52

Instrument ID: A2HP1 Calib Start Date: 04/20/2015 14:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/20/2015 17:13

Lab File ID: P1042114.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,4-D	9.01	8.99	9.03
Silvex (2,4,5-TP)	9.96	9.94	9.98
2,4,5-T	10.43	10.41	10.45
2,4-Dichlorophenylacetic acid	7.69	7.67	7.71

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042114.D
Lims ID: CCV H3
Client ID:
Sample Type: CCV
Inject. Date: 21-Apr-2015 22:52:56 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-014
Operator ID: 001754 Instrument ID: A2HP1
Sublist: chrom-8151_1*sub2

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:22 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:05:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.273	0.000	7482514	0.0400	0.0425	
2	1.439	1.439	0.000	28803980	0.0400	0.0440	M
						RPD = 3.48	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	10724146	0.0800	0.0983	
2	7.688	7.688	0.000	31286553	0.0800	0.0982	
						RPD = 0.03	
6 Dicamba							
1	7.142	7.142	0.000	19062257	0.0400	0.0425	
2	7.854	7.854	0.000	66796041	0.0400	0.0462	
						RPD = 8.17	
10 MCPP							
1	7.422	7.422	0.000	4381521	8.00	9.17	
2	8.037	8.037	0.000	17785961	8.00	9.79	
						RPD = 6.54	
9 MCPA							
1	7.585	7.585	0.000	6208711	8.00	8.34	
2	8.291	8.291	0.000	23743239	8.00	9.14	
						RPD = 9.14	
7 Dichlorprop							
1	7.954	7.954	0.000	9120335	0.0800	0.0881	
2	8.656	8.656	0.000	30034591	0.0800	0.0946	
						RPD = 7.18	
2 2,4-D							M
1	8.191	8.191	0.000	11143969	0.0800	0.0919	M
2	9.012	9.012	0.000	37355951	0.0800	0.1041	
						RPD = 12.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Silvex (2,4,5-TP)							
1	9.064	9.064	0.000	14056273	0.0200	0.0220	
2	9.956	9.956	0.000	48200344	0.0200	0.0241	
						RPD = 9.02	
1 2,4,5-T							
1	9.376	9.376	0.000	13068130	0.0200	0.0240	
2	10.434	10.434	0.000	42216533	0.0200	0.0254	
						RPD = 5.86	
3 2,4-DB							
1	10.001	10.001	0.000	6129572	0.0800	0.1127	
2	11.088	11.088	0.000	18708713	0.0800	0.1183	
						RPD = 4.90	
8 Dinoseb							M
1	11.225	11.225	0.000	5876485	0.0120	0.0144	
2	11.467	11.467	0.000	18491463	0.0120	0.0157	M
						RPD = 8.62	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

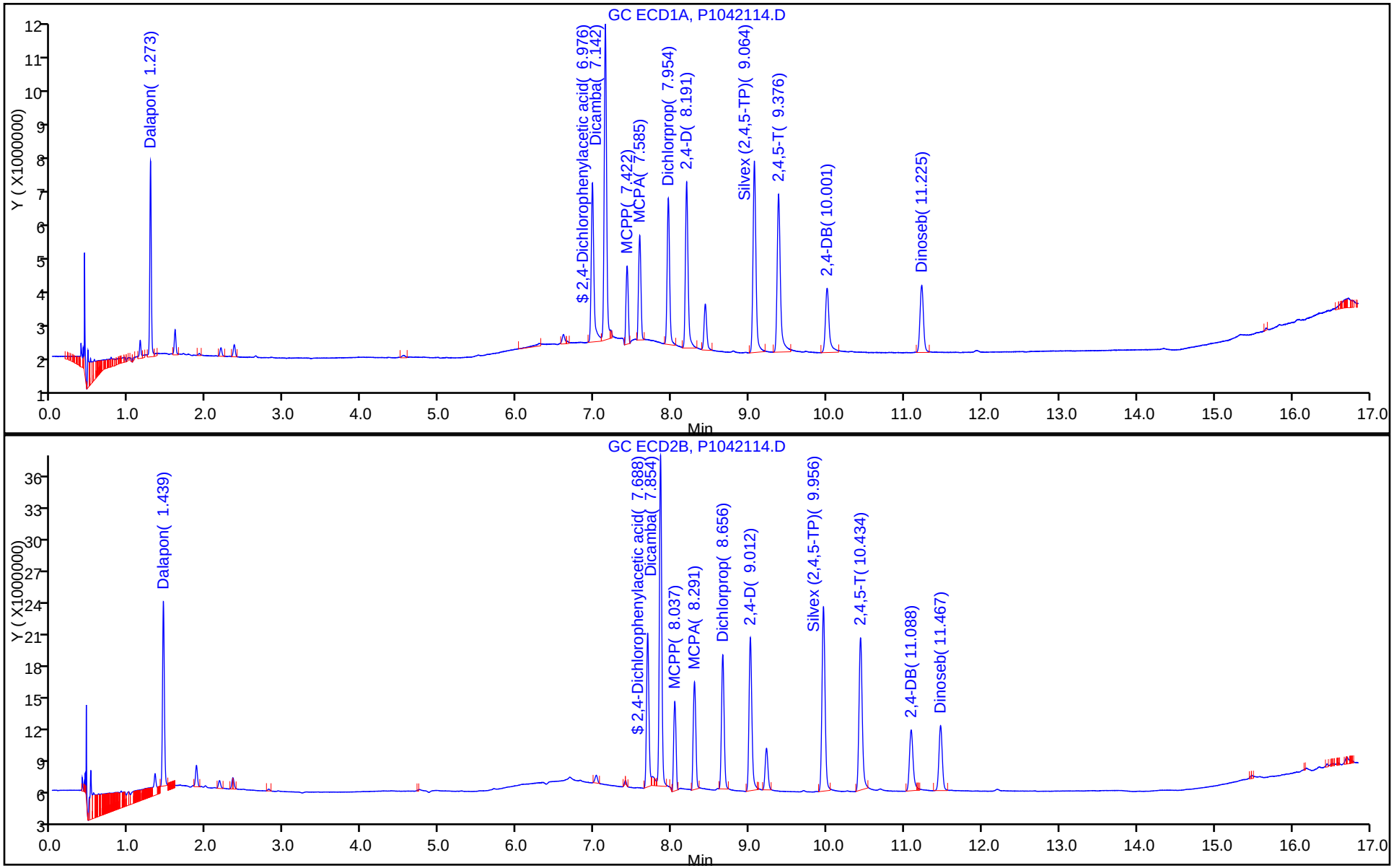
SGHERBL3_00018 Amount Added: 1.00 Units: mL

Report Date: 22-Apr-2015 11:30:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042114.D

Injection Date:	21-Apr-2015 22:52:56	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	CCV H3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8151_1	Limit Group:	GC 8151 DOD		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-176663/5-A

Matrix: Solid | Lab File ID: P1042112.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) | Date Analyzed: 04/21/2015 22:05

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	0.0040	U	0.50	0.0040	0.0019
93-72-1	Silvex (2,4,5-TP)	0.00020	U	0.10	0.00020	0.00027

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	94		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042112.D
Lims ID: MB 240-176663/5-A
Client ID:
Sample Type: MB
Inject. Date: 21-Apr-2015 22:05:16 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-012
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.261	1.273	-0.012	22300323		0.1268	
2	1.421	1.439	-0.018	14945954		0.0229	
						RPD = 138.91	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.974	6.976	-0.002	19492161	0.2000	0.1870	
2	7.686	7.689	-0.003	45794731	0.2000	0.1438	
						RPD = 26.14	
6 Dicamba							
1		7.142				ND	
2		7.855					
10 MCPP							
1		7.423				ND	
2		8.038					
9 MCPA							
1		7.585				ND	
2		8.292					
7 Dichlorprop							
1	7.954	7.955	-0.001	909178		0.008780	
2	8.673	8.657	0.016	2007499		0.006325	
						RPD = 32.50	
2 2,4-D							
1		8.192				ND	
2		9.013					
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1		9.065				ND	
2		9.957					

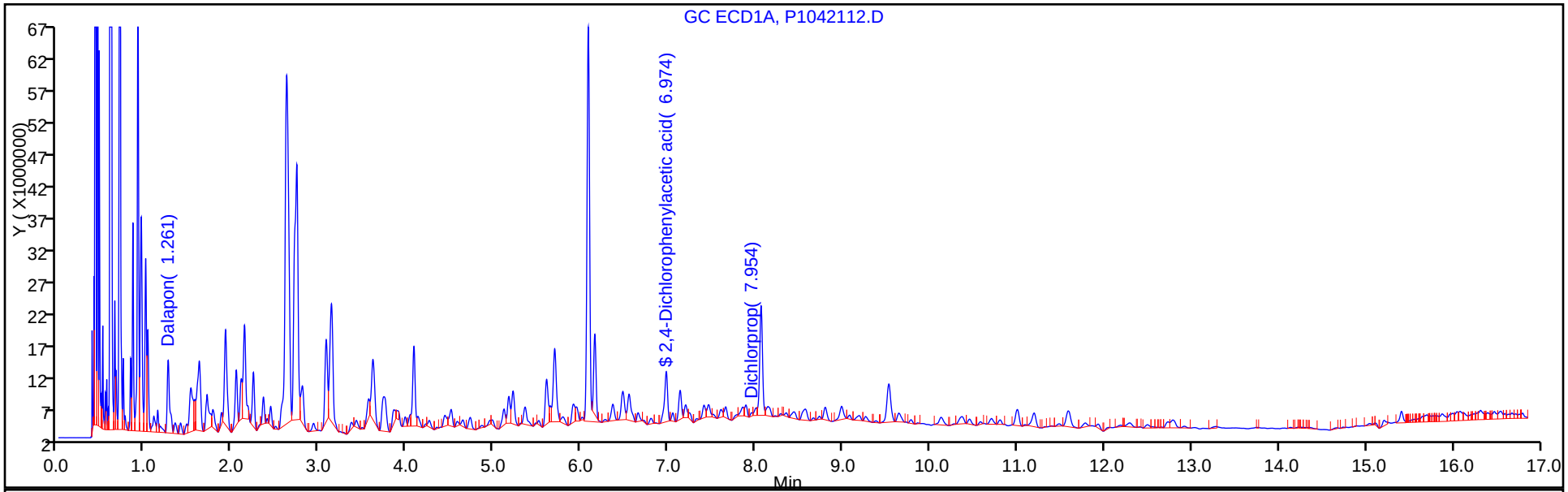
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
1 2,4,5-T							
1		9.379				ND	
2		10.437					
3 2,4-DB							
1		10.003				ND	
2		11.092					
8 Dinoseb							
1		11.225				ND	
2		11.467					

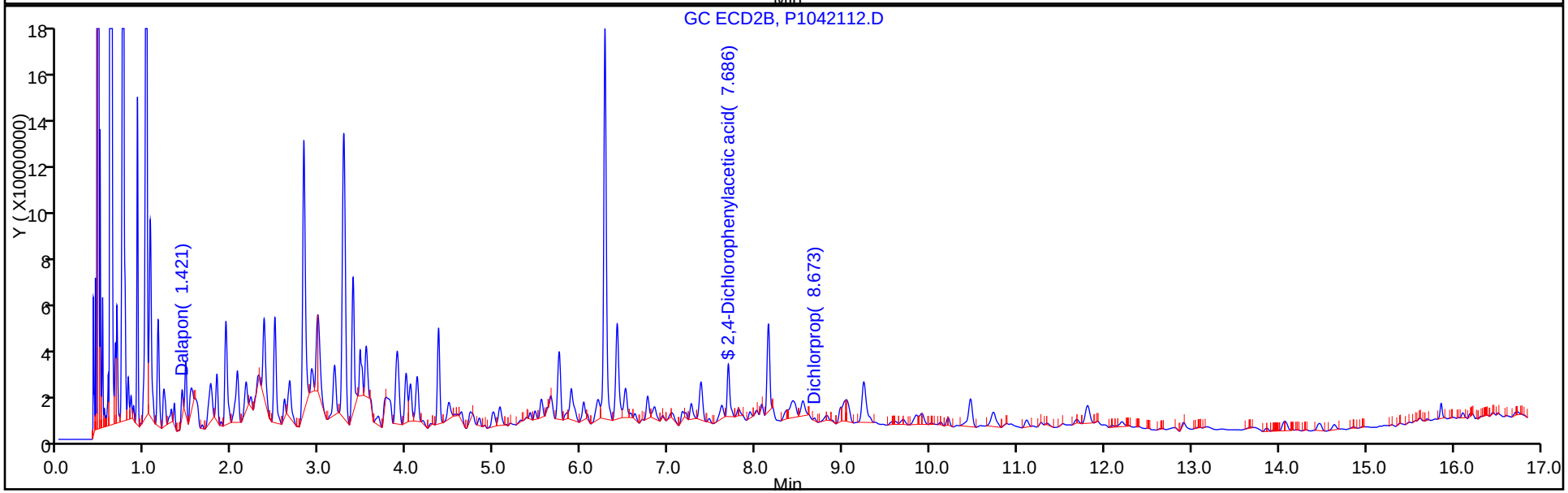
Report Date: 22-Apr-2015 11:30:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042112.D

Injection Date:	21-Apr-2015 22:05:16	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	MB 240-176663/5-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-176663/5-A

Matrix: Solid Lab File ID: P1042112.D

Analysis Method: 8151A Date Collected:

Extraction Method: 8151A Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) Date Analyzed: 04/21/2015 22:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	72		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042112.D
Lims ID: MB 240-176663/5-A
Client ID:
Sample Type: MB
Inject. Date: 21-Apr-2015 22:05:16 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-012
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.261	1.273	-0.012	22300323		0.1268	
2	1.421	1.439	-0.018	14945954		0.0229	
						RPD = 138.91	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.974	6.976	-0.002	19492161	0.2000	0.1870	
2	7.686	7.689	-0.003	45794731	0.2000	0.1438	
						RPD = 26.14	
6 Dicamba							
1		7.142				ND	
2		7.855					
10 MCPP							
1		7.423				ND	
2		8.038					
9 MCPA							
1		7.585				ND	
2		8.292					
7 Dichlorprop							
1	7.954	7.955	-0.001	909178		0.008780	
2	8.673	8.657	0.016	2007499		0.006325	
						RPD = 32.50	
2 2,4-D							
1		8.192				ND	
2		9.013					
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1		9.065				ND	
2		9.957					

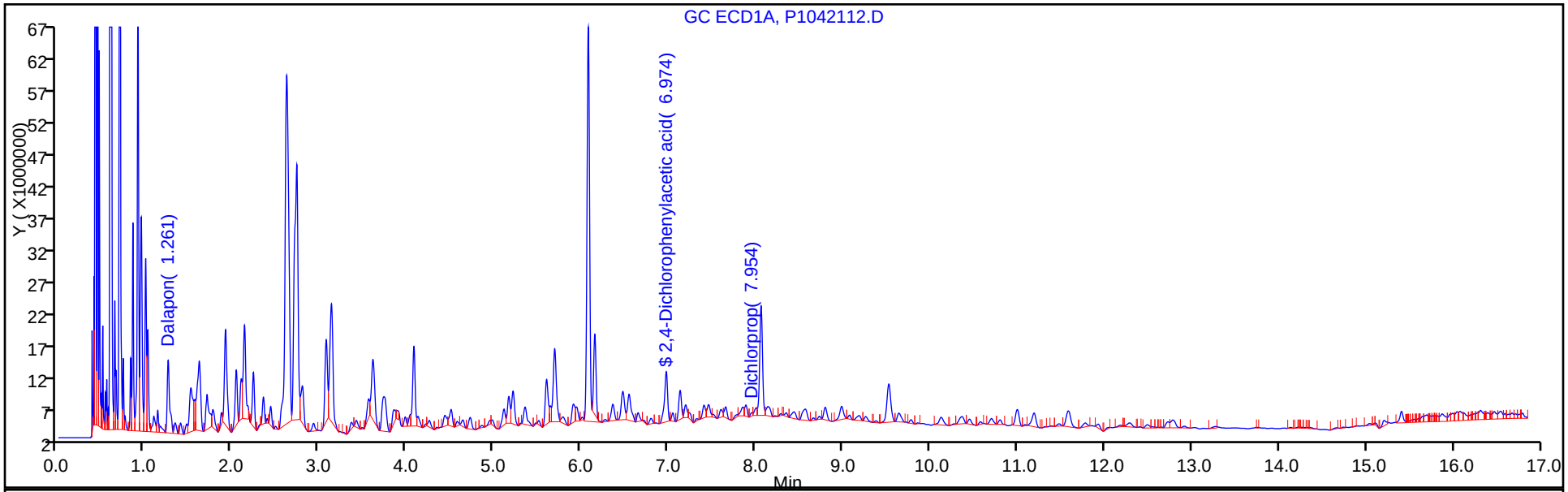
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
1 2,4,5-T							
1		9.379				ND	
2		10.437					
3 2,4-DB							
1		10.003				ND	
2		11.092					
8 Dinoseb							
1		11.225				ND	
2		11.467					

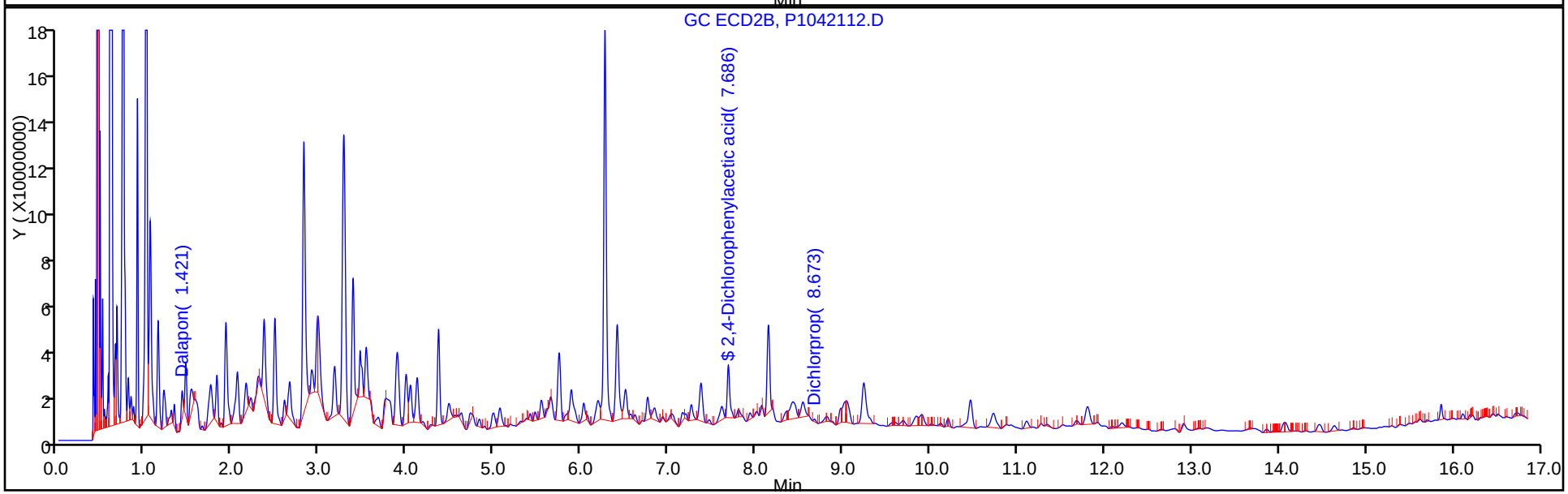
Report Date: 22-Apr-2015 11:30:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042112.D

Injection Date:	21-Apr-2015 22:05:16	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	MB 240-176663/5-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176663/6-A

Matrix: Solid | Lab File ID: P1042113.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) | Date Analyzed: 04/21/2015 22:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	0.0132	J	0.50	0.0040	0.0019
93-72-1	Silvex (2,4,5-TP)	0.00346	J	0.10	0.00020	0.00027

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	88		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042113.D
Lims ID: LCS 240-176663/6-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Apr-2015 22:29:09 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-013
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:04:28

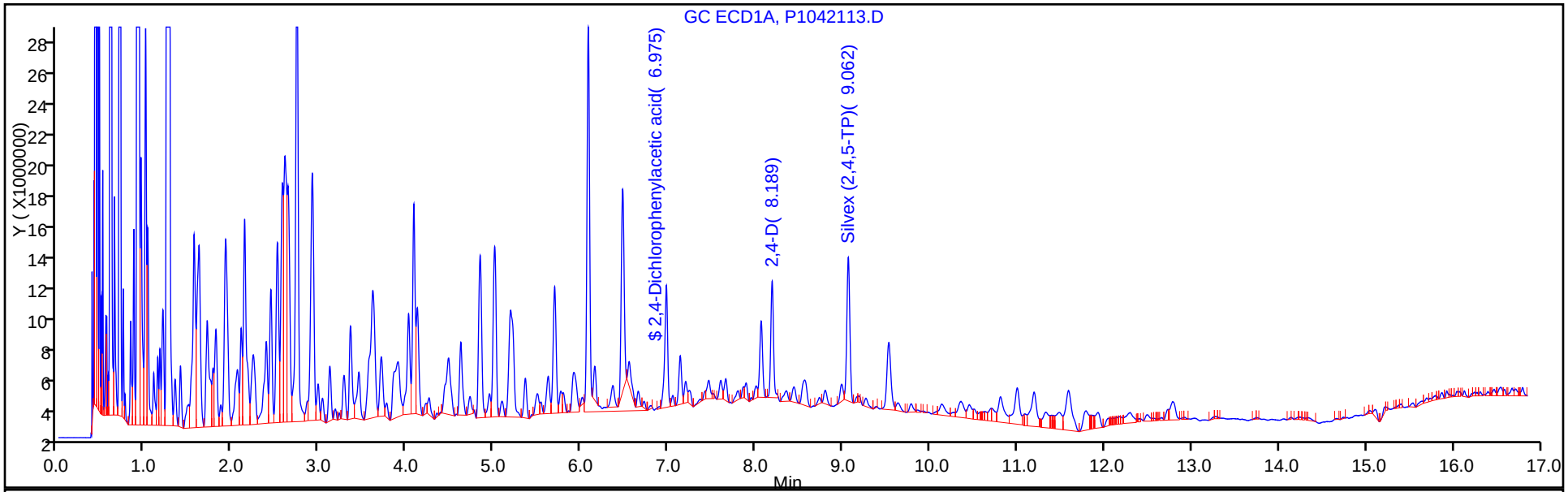
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.976	-0.001	18331527	0.2000	0.1753	
2	7.686	7.689	-0.003	57192287	0.2000	0.1796	
						RPD = 2.42	
2 2,4-D							
1	8.189	8.192	-0.003	16047171	0.2000	0.1323	
2	9.009	9.013	-0.004	83741320	0.2000	0.2299	
						RPD = 53.87	
12 Silvex (2,4,5-TP)							
1	9.062	9.065	-0.003	22078816	0.0500	0.0346	
2	9.955	9.957	-0.002	73714792	0.0500	0.0369	
						RPD = 6.36	

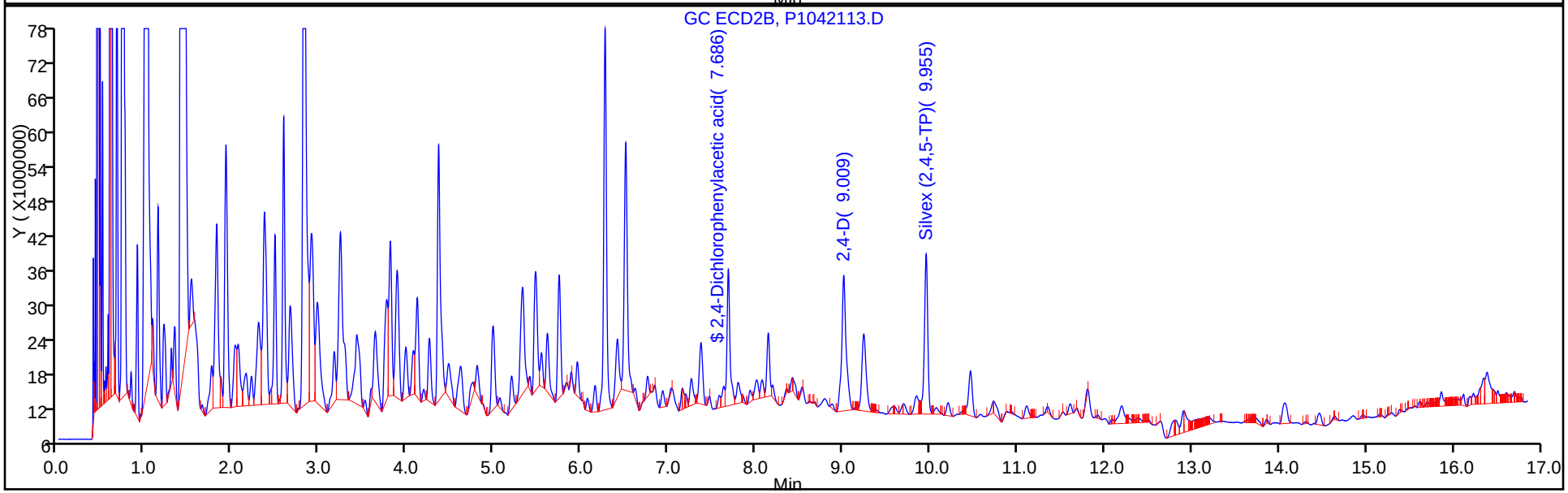
Report Date: 22-Apr-2015 11:30:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042113.D

Injection Date:	21-Apr-2015 22:29:09	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	LCS 240-176663/6-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-176663/6-A

Matrix: Solid | Lab File ID: P1042113.D

Analysis Method: 8151A | Date Collected:

Extraction Method: 8151A | Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) | Date Analyzed: 04/21/2015 22:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 | Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	90		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042113.D
Lims ID: LCS 240-176663/6-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Apr-2015 22:29:09 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-013
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:04:28

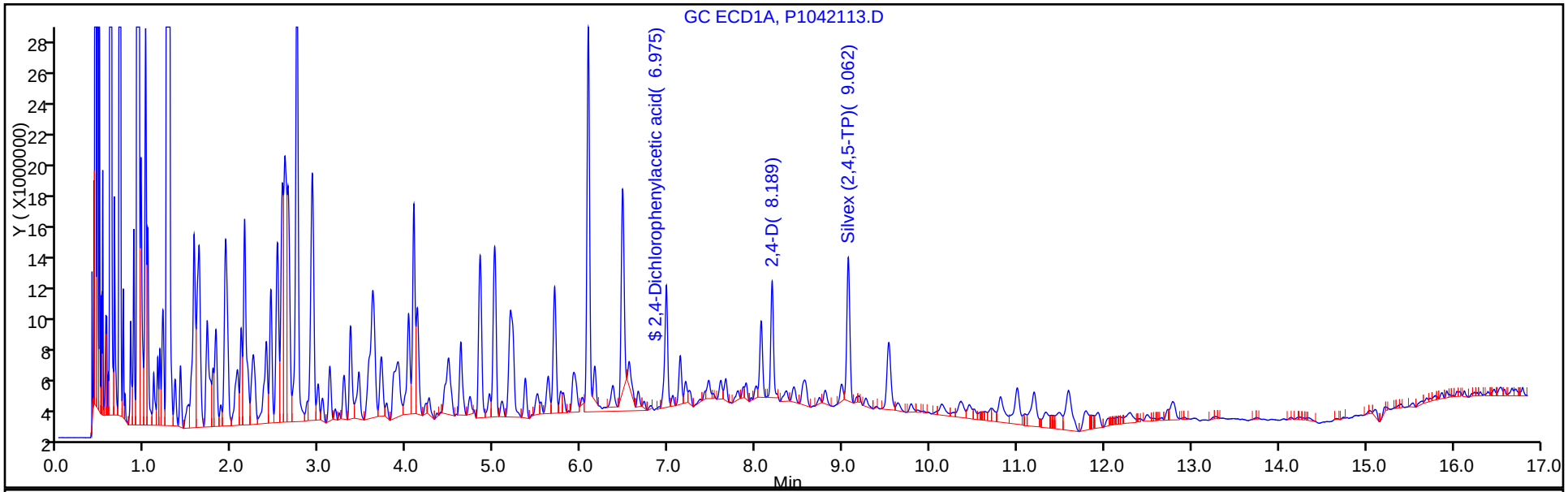
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 4 2,4-Dichlorophenylacetic acid							
1	6.975	6.976	-0.001	18331527	0.2000	0.1753	
2	7.686	7.689	-0.003	57192287	0.2000	0.1796	
						RPD = 2.42	
2 2,4-D							
1	8.189	8.192	-0.003	16047171	0.2000	0.1323	
2	9.009	9.013	-0.004	83741320	0.2000	0.2299	
						RPD = 53.87	
12 Silvex (2,4,5-TP)							
1	9.062	9.065	-0.003	22078816	0.0500	0.0346	
2	9.955	9.957	-0.002	73714792	0.0500	0.0369	
						RPD = 6.36	

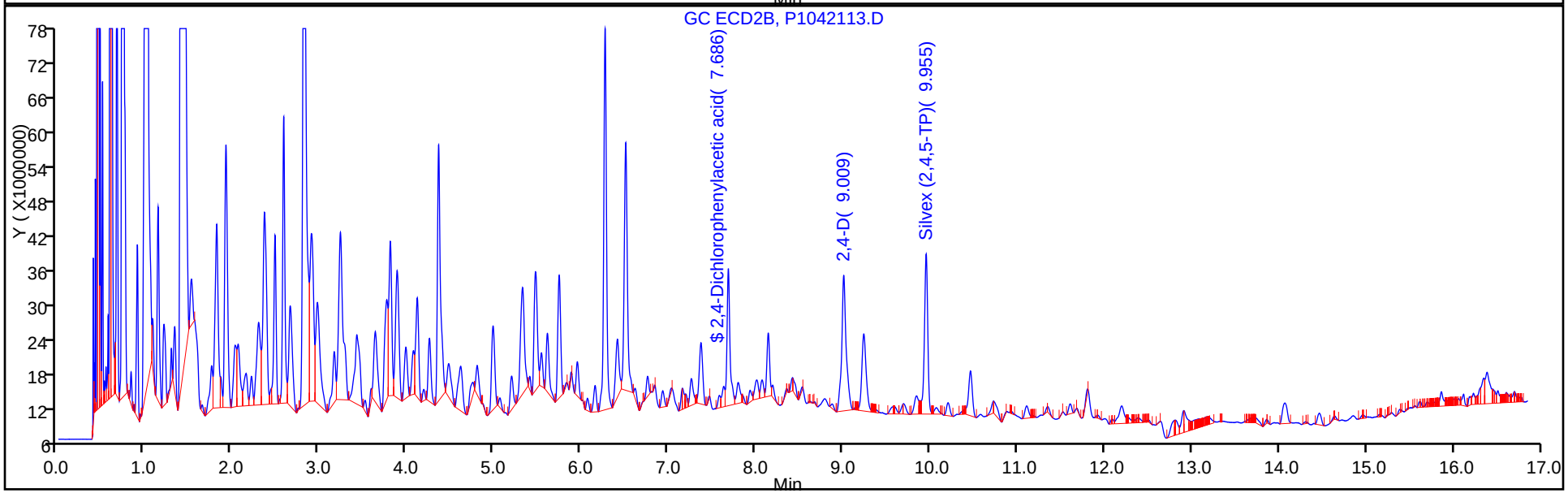
Report Date: 22-Apr-2015 11:30:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042113.D

Injection Date:	21-Apr-2015 22:29:09	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	LCS 240-176663/6-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-177320/7

Matrix: Solid | Lab File ID: P1042107.D

Analysis Method: 8151A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/21/2015 20:06

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	0.0202	J	0.50	0.00050	0.00041
93-72-1	Silvex (2,4,5-TP)	0.00497	J	0.10	0.00020	0.00020

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	103		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042107.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 20:06:19 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-007
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:07:09 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 10:56:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.273	0.000	1963074	0.0100	0.0112	M
2	1.439	1.439	0.000	7177019	0.0100	0.0110	M
						RPD = 1.68	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.978	6.976	0.002	3051670	0.0200	0.0206	
2	7.692	7.689	0.003	6884781	0.0200	0.0216	
						RPD = 4.84	
6 Dicamba							
1	7.143	7.142	0.001	4664118	0.0100	0.0104	
2	7.856	7.855	0.001	16813861	0.0100	0.0116	
						RPD = 11.00	
10 MCPP							
1	7.423	7.423	0.000	709750	2.00	1.48	
2	8.040	8.038	0.002	3627997	2.00	2.00	
						RPD = 29.38	
9 MCPA							
1	7.587	7.585	0.002	1430732	2.00	1.92	
2	8.294	8.292	0.002	6031424	2.00	2.32	
						RPD = 18.84	
7 Dichlorprop							
1	7.956	7.955	0.001	2236914	0.0200	0.0216	
2	8.658	8.657	0.001	6775735	0.0200	0.0213	
						RPD = 1.18	
2 2,4-D							
1	8.193	8.192	0.001	2448562	0.0200	0.0202	
2	9.016	9.013	0.003	7021625	0.0200	0.0219	
						RPD = 7.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1	9.068	9.065	0.003	3170529	0.005000	0.004967	
2	9.958	9.957	0.001	9409612	0.005000	0.004705	
						RPD = 5.41	
1 2,4,5-T							
1	9.380	9.379	0.001	2561446	0.005000	0.005877	
2	10.438	10.437	0.001	7633002	0.005000	0.006704	
						RPD = 13.15	
3 2,4-DB							M
1	10.008	10.003	0.005	901094	0.0200	0.0269	M
2	11.093	11.092	0.001	2807883	0.0200	0.0297	M
						RPD = 9.82	
8 Dinoseb							
1	11.225	11.225	0.000	1362470	0.003000	0.003337	
2	11.467	11.467	0.000	3739327	0.003000	0.003172	
						RPD = 5.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

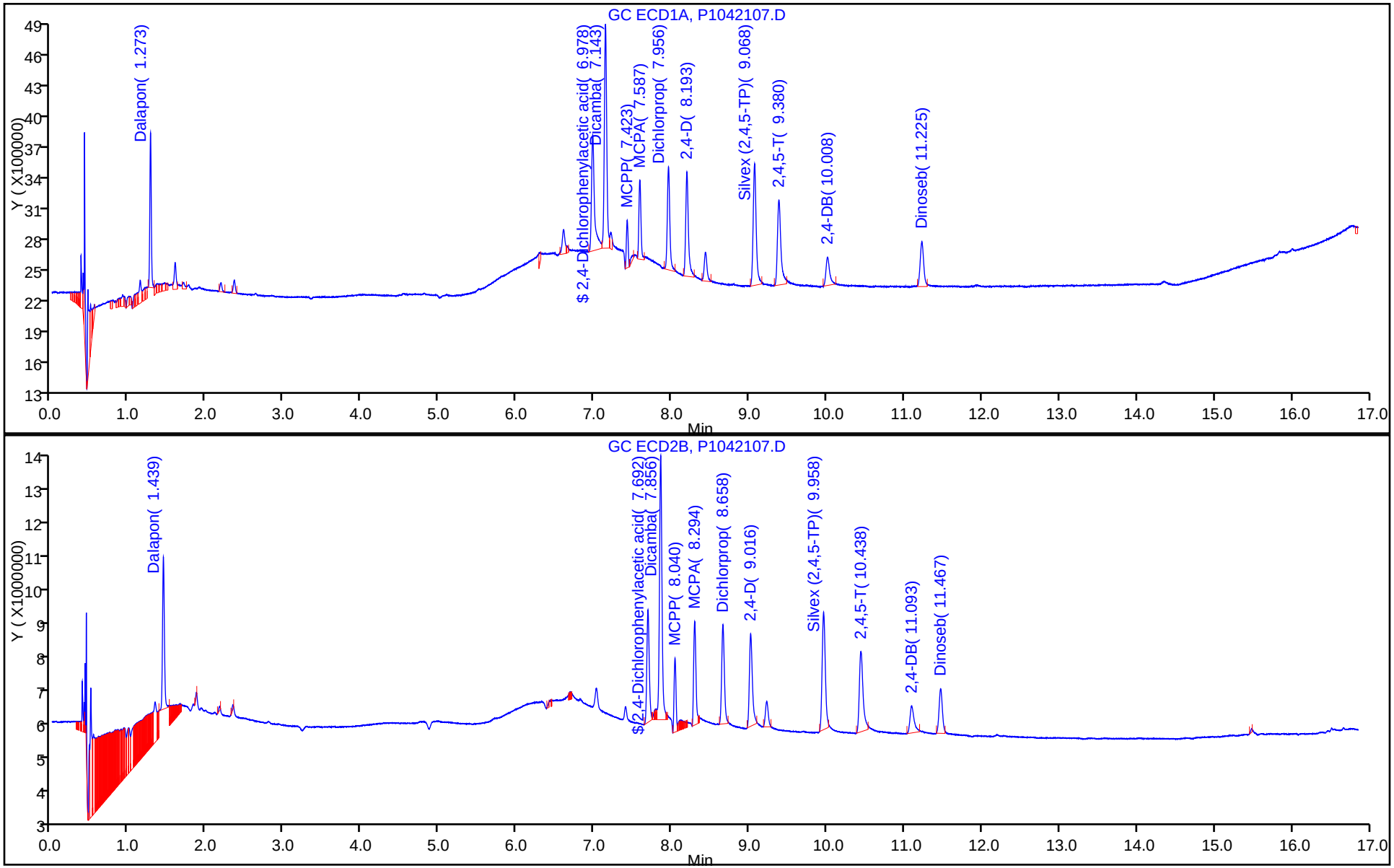
SGHERBL1_00014 Amount Added: 1.00 Units: mL

Report Date: 22-Apr-2015 11:30:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042107.D

Injection Date:	21-Apr-2015 20:06:19	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	MRL			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8151_1	Limit Group:	GC 8151 DOD		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177320/7

Matrix: Solid Lab File ID: P1042107.D

Analysis Method: 8151A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 20:06

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	*2,4-D*	*0.0219*	*J*	*0.50*	0.00050	*0.00041*
93-72-1	*Silvex (2,4,5-TP)*	*0.00471*	*J*	*0.10*	0.00020	*0.00020*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	108		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042107.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 20:06:19 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-007
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:07:09 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 10:56:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.273	0.000	1963074	0.0100	0.0112	M
2	1.439	1.439	0.000	7177019	0.0100	0.0110	M
						RPD = 1.68	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.978	6.976	0.002	3051670	0.0200	0.0206	
2	7.692	7.689	0.003	6884781	0.0200	0.0216	
						RPD = 4.84	
6 Dicamba							
1	7.143	7.142	0.001	4664118	0.0100	0.0104	
2	7.856	7.855	0.001	16813861	0.0100	0.0116	
						RPD = 11.00	
10 MCPP							
1	7.423	7.423	0.000	709750	2.00	1.48	
2	8.040	8.038	0.002	3627997	2.00	2.00	
						RPD = 29.38	
9 MCPA							
1	7.587	7.585	0.002	1430732	2.00	1.92	
2	8.294	8.292	0.002	6031424	2.00	2.32	
						RPD = 18.84	
7 Dichlorprop							
1	7.956	7.955	0.001	2236914	0.0200	0.0216	
2	8.658	8.657	0.001	6775735	0.0200	0.0213	
						RPD = 1.18	
2 2,4-D							
1	8.193	8.192	0.001	2448562	0.0200	0.0202	
2	9.016	9.013	0.003	7021625	0.0200	0.0219	
						RPD = 7.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1	9.068	9.065	0.003	3170529	0.005000	0.004967	
2	9.958	9.957	0.001	9409612	0.005000	0.004705	
						RPD = 5.41	
1 2,4,5-T							
1	9.380	9.379	0.001	2561446	0.005000	0.005877	
2	10.438	10.437	0.001	7633002	0.005000	0.006704	
						RPD = 13.15	
3 2,4-DB							M
1	10.008	10.003	0.005	901094	0.0200	0.0269	M
2	11.093	11.092	0.001	2807883	0.0200	0.0297	M
						RPD = 9.82	
8 Dinoseb							
1	11.225	11.225	0.000	1362470	0.003000	0.003337	
2	11.467	11.467	0.000	3739327	0.003000	0.003172	
						RPD = 5.05	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

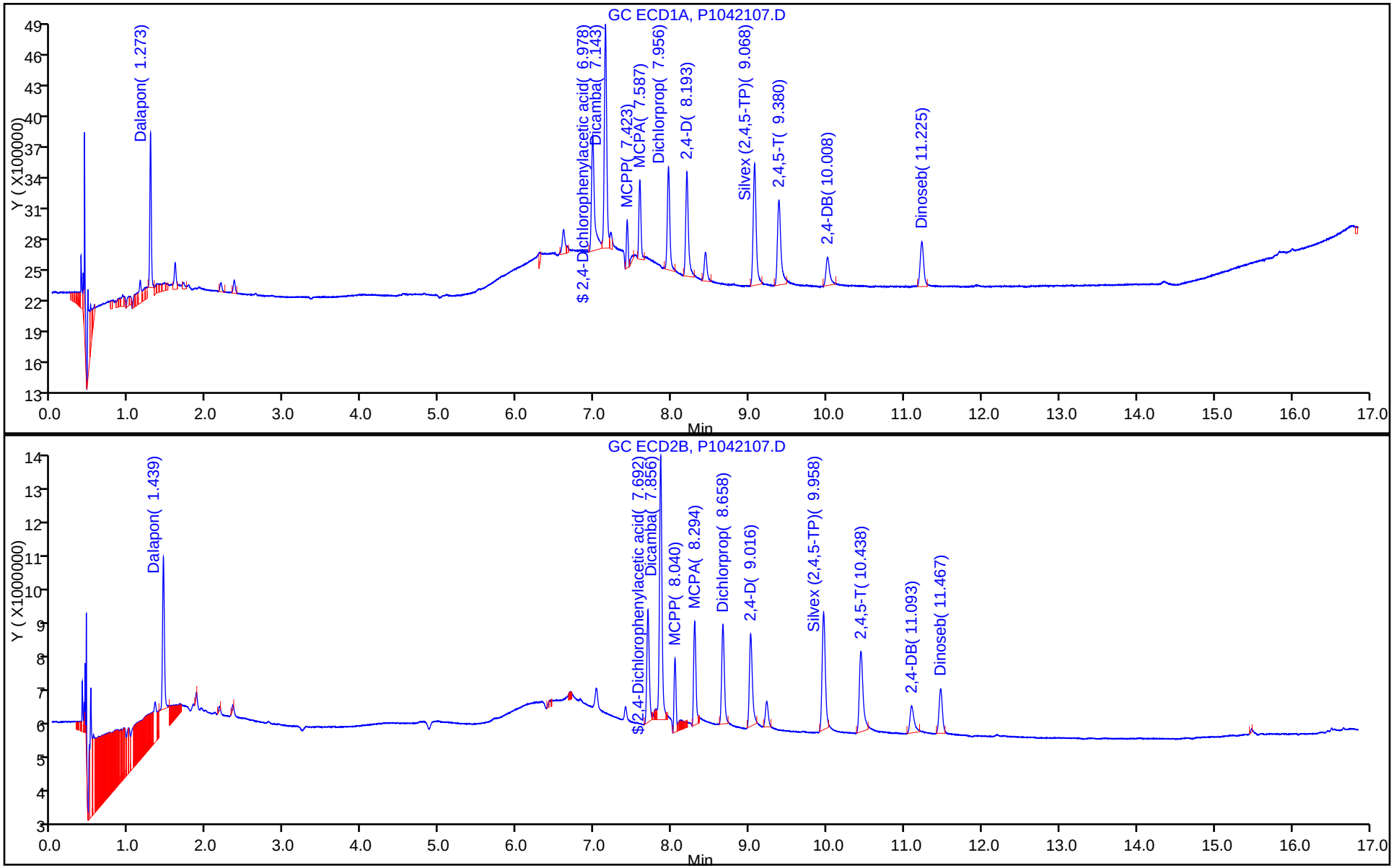
SGHERBL1_00014 Amount Added: 1.00 Units: mL

Report Date: 22-Apr-2015 11:30:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042107.D

Injection Date:	21-Apr-2015 20:06:19	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	MRL			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8151_1	Limit Group:	GC 8151 DOD		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177320/15

Matrix: Solid Lab File ID: P1042115.D

Analysis Method: 8151A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:16

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	0.0231	J	0.50	0.00050	0.00041
93-72-1	Silvex (2,4,5-TP)	0.00555	J	0.10	0.00020	0.00020

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	147		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042115.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:16:39 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-015
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:22 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:07:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.273	0.000	2002653	0.0100	0.0114	M
2	1.440	1.439	0.001	7913331	0.0100	0.0121	
						RPD = 6.09	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	3919190	0.0200	0.0294	
2	7.689	7.688	0.001	7217688	0.0200	0.0227	
						RPD = 25.81	
6 Dicamba							
1	7.142	7.142	0.000	5303153	0.0100	0.0118	
2	7.854	7.854	0.000	16156937	0.0100	0.0112	
						RPD = 5.81	
10 MCPP							
1	7.424	7.422	0.002	732625	2.00	1.53	
2	8.039	8.037	0.002	3764951	2.00	2.07	
						RPD = 29.90	
9 MCPA							
1	7.585	7.585	0.000	1567875	2.00	2.11	
2	8.293	8.291	0.002	6311822	2.00	2.43	
						RPD = 14.26	
7 Dichlorprop							
1	7.955	7.954	0.001	2398402	0.0200	0.0232	
2	8.657	8.656	0.001	7506929	0.0200	0.0237	
						RPD = 2.10	
2 2,4-D							
1	8.193	8.191	0.002	2795890	0.0200	0.0231	
2	9.013	9.012	0.001	8584641	0.0200	0.0261	
						RPD = 12.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1	9.066	9.064	0.002	3540965	0.005000	0.005548	
2	9.956	9.956	0.000	11240195	0.005000	0.005621	
						RPD = 1.31	
1 2,4,5-T							
1	9.381	9.376	0.005	3124613	0.005000	0.006848	
2	10.436	10.434	0.002	9460268	0.005000	0.007694	
						RPD = 11.64	
3 2,4-DB							
1	10.006	10.001	0.005	1403302	0.0200	0.0352	
2	11.088	11.088	0.000	3848731	0.0200	0.0355	
						RPD = 0.98	
8 Dinoseb							M
1	11.224	11.225	-0.001	1574227	0.003000	0.003855	a
2	11.466	11.467	-0.001	4748159	0.003000	0.004028	M
						RPD = 4.39	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

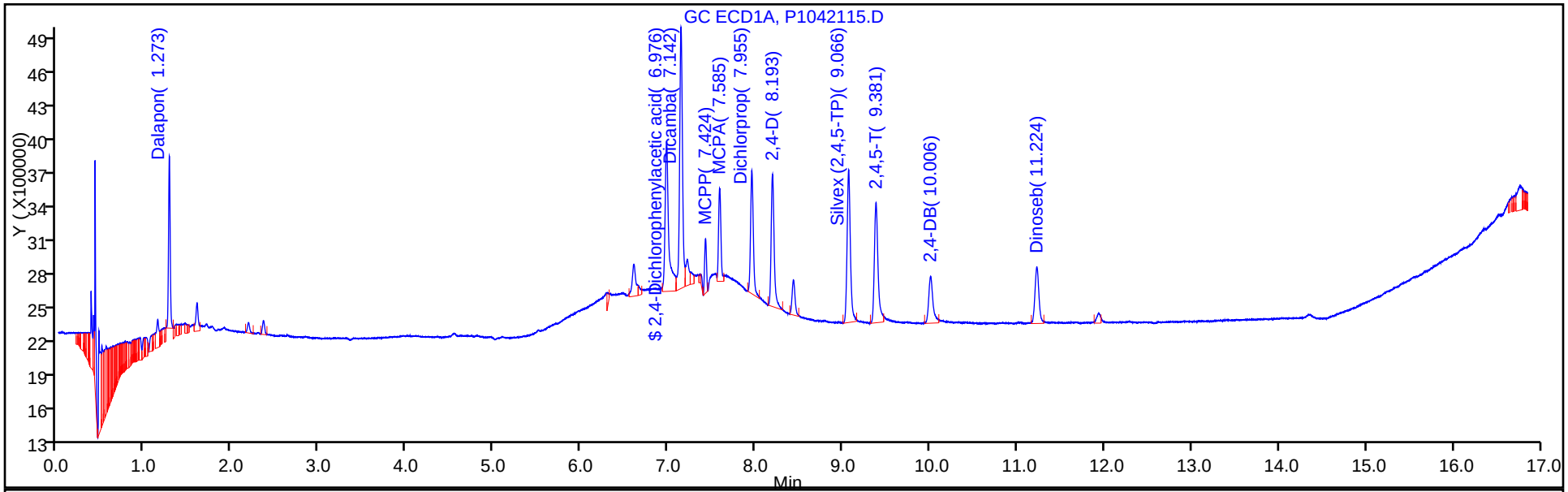
SGHERBL1_00014 Amount Added: 1.00 Units: mL

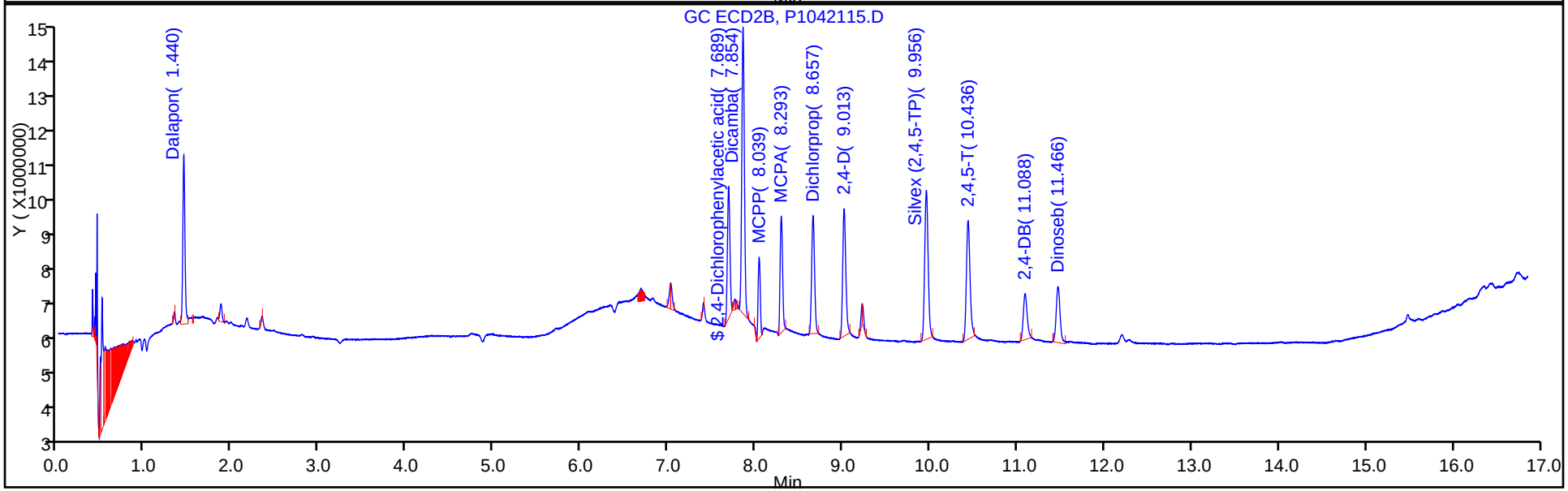
Report Date: 22-Apr-2015 11:30:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042115.D

Injection Date:	21-Apr-2015 23:16:39	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	MRL			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-177320/15

Matrix: Solid Lab File ID: P1042115.D

Analysis Method: 8151A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:16

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	*2,4-D*	*0.0261*	*J ^*	*0.50*	0.00050	*0.00041*
93-72-1	*Silvex (2,4,5-TP)*	*0.00562*	*J*	*0.10*	0.00020	*0.00020*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	113		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042115.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:16:39 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-015
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:22 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: bolgrind Date: 22-Apr-2015 11:07:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							M
1	1.273	1.273	0.000	2002653	0.0100	0.0114	M
2	1.440	1.439	0.001	7913331	0.0100	0.0121	
						RPD = 6.09	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	3919190	0.0200	0.0294	
2	7.689	7.688	0.001	7217688	0.0200	0.0227	
						RPD = 25.81	
6 Dicamba							
1	7.142	7.142	0.000	5303153	0.0100	0.0118	
2	7.854	7.854	0.000	16156937	0.0100	0.0112	
						RPD = 5.81	
10 MCPP							
1	7.424	7.422	0.002	732625	2.00	1.53	
2	8.039	8.037	0.002	3764951	2.00	2.07	
						RPD = 29.90	
9 MCPA							
1	7.585	7.585	0.000	1567875	2.00	2.11	
2	8.293	8.291	0.002	6311822	2.00	2.43	
						RPD = 14.26	
7 Dichlorprop							
1	7.955	7.954	0.001	2398402	0.0200	0.0232	
2	8.657	8.656	0.001	7506929	0.0200	0.0237	
						RPD = 2.10	
2 2,4-D							
1	8.193	8.191	0.002	2795890	0.0200	0.0231	
2	9.013	9.012	0.001	8584641	0.0200	0.0261	
						RPD = 12.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1	9.066	9.064	0.002	3540965	0.005000	0.005548	
2	9.956	9.956	0.000	11240195	0.005000	0.005621	
						RPD = 1.31	
1 2,4,5-T							
1	9.381	9.376	0.005	3124613	0.005000	0.006848	
2	10.436	10.434	0.002	9460268	0.005000	0.007694	
						RPD = 11.64	
3 2,4-DB							
1	10.006	10.001	0.005	1403302	0.0200	0.0352	
2	11.088	11.088	0.000	3848731	0.0200	0.0355	
						RPD = 0.98	
8 Dinoseb							M
1	11.224	11.225	-0.001	1574227	0.003000	0.003855	a
2	11.466	11.467	-0.001	4748159	0.003000	0.004028	M
						RPD = 4.39	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

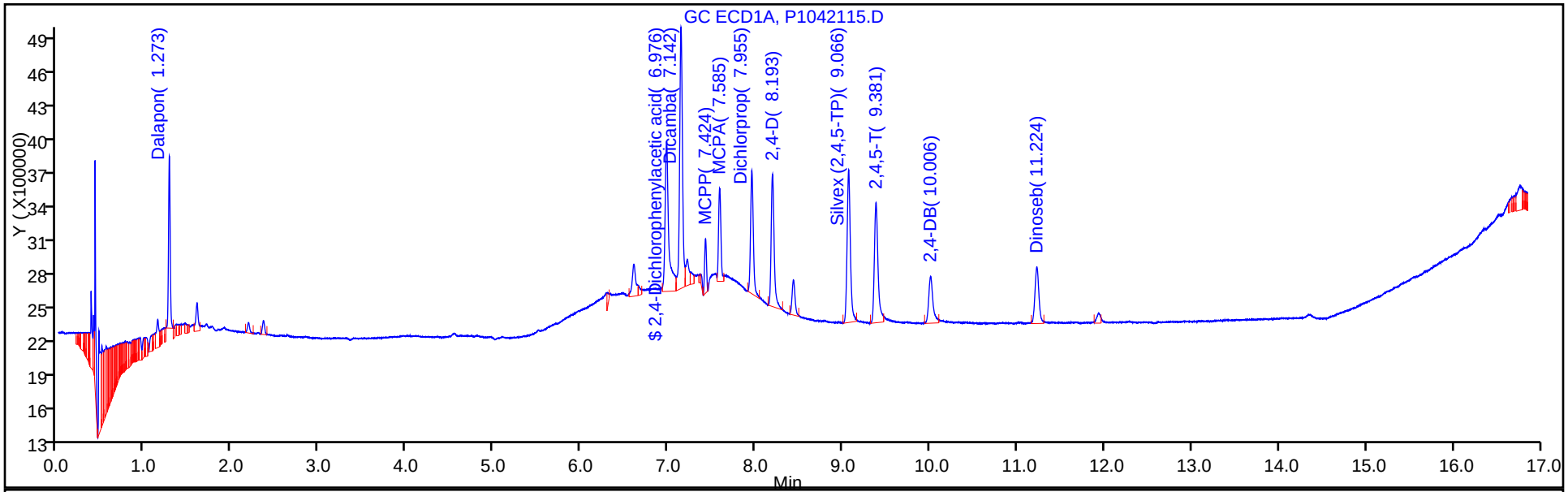
SGHERBL1_00014 Amount Added: 1.00 Units: mL

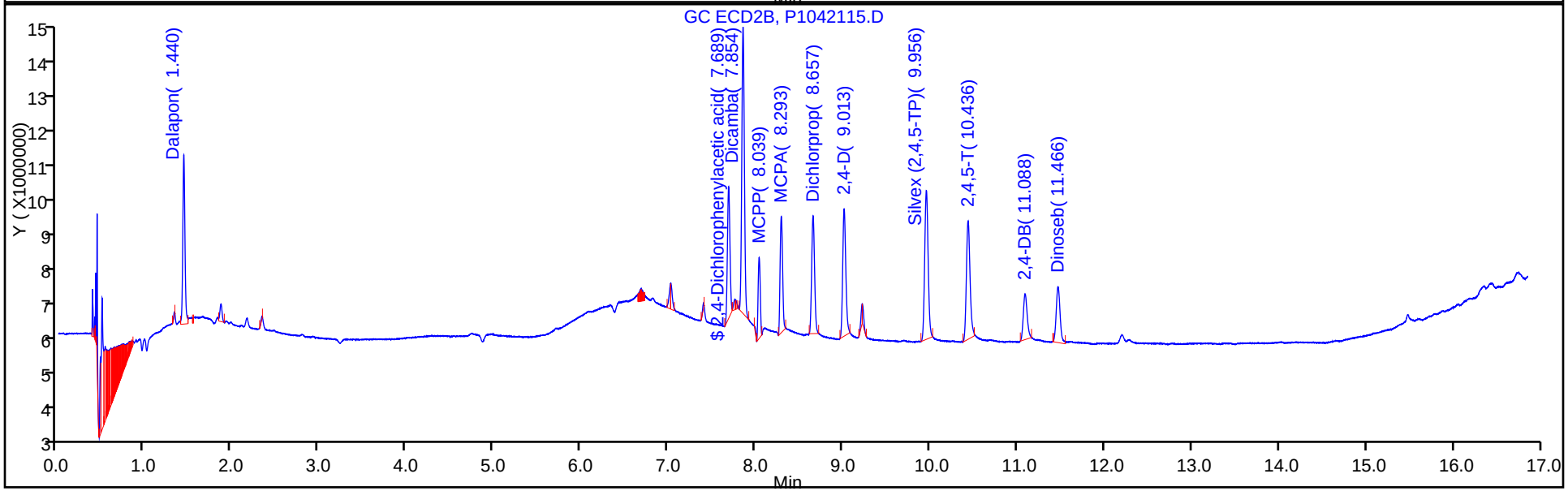
Report Date: 22-Apr-2015 11:30:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042115.D

Injection Date:	21-Apr-2015 23:16:39	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	MRL			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW MS | Lab Sample ID: 240-49236-1 MS

Matrix: Solid (TCLP) | Lab File ID: P1042110.D

Analysis Method: 8151A | Date Collected: 04/10/2015 08:00

Extraction Method: 8151A | Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) | Date Analyzed: 04/21/2015 21:17

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	0.0141	J	0.50	0.0040	0.0019
93-72-1	Silvex (2,4,5-TP)	0.00371	J	0.10	0.00020	0.00027

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	81		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042110.D
Lims ID: 240-49236-B-1-G MS
Client ID:
Sample Type: MS
Inject. Date: 21-Apr-2015 21:17:45 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-010
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.259	1.273	-0.014	179504051		1.02	E
2	1.420	1.439	-0.019	528235636		0.8078	E
						RPD = 23.27	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	16939017	0.2000	0.1612	
2	7.686	7.689	-0.003	49856172	0.2000	0.1565	
						RPD = 2.92	
6 Dicamba							
1		7.142				ND	
2		7.855					
10 MCPP							
1		7.423				ND	
2		8.038					
9 MCPA							
1		7.585				ND	
2		8.292					
7 Dichlorprop							
1		7.955				ND	
2		8.657					
2 2,4-D							
1	8.189	8.192	-0.003	17136113	0.2000	0.1413	
2	9.011	9.013	-0.002	75450361	0.2000	0.2074	
						RPD = 37.91	
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1	9.061	9.065	-0.004	23676754	0.0500	0.0371	
2	9.955	9.957	-0.002	84541721	0.0500	0.0423	
						RPD = 13.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
1 2,4,5-T							
1		9.379				ND	
2		10.437					
3 2,4-DB							
1		10.003				ND	
2		11.092					
8 Dinoseb							
1		11.225				ND	
2		11.467					

QC Flag Legend

Processing Flags

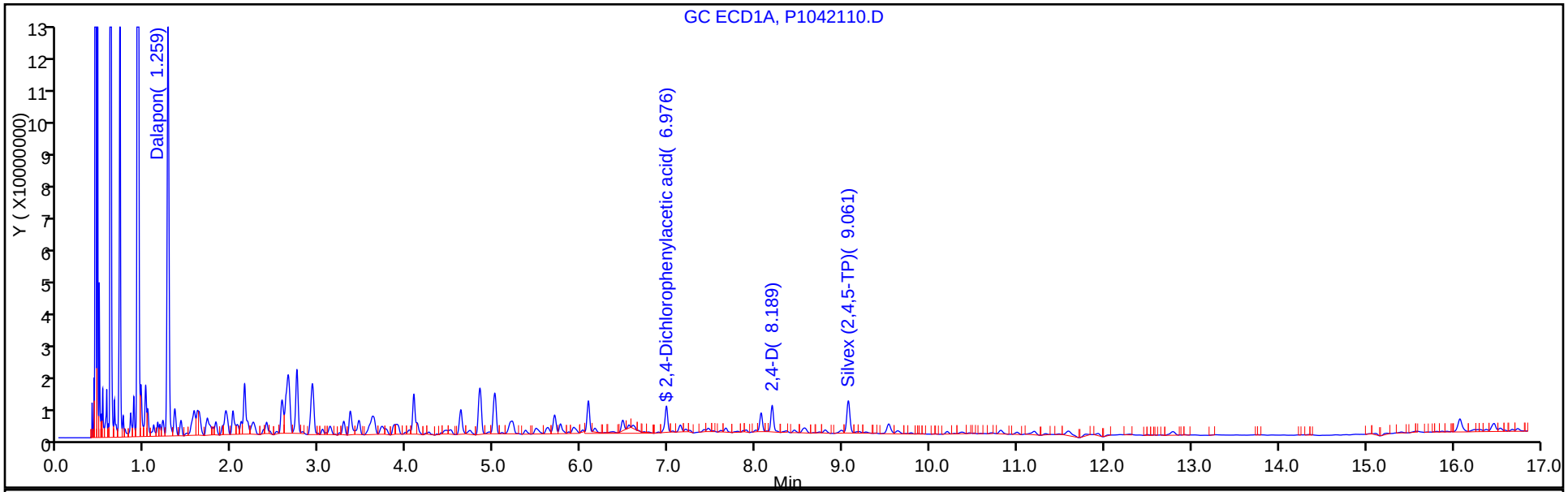
E - Exceeded Maximum Amount

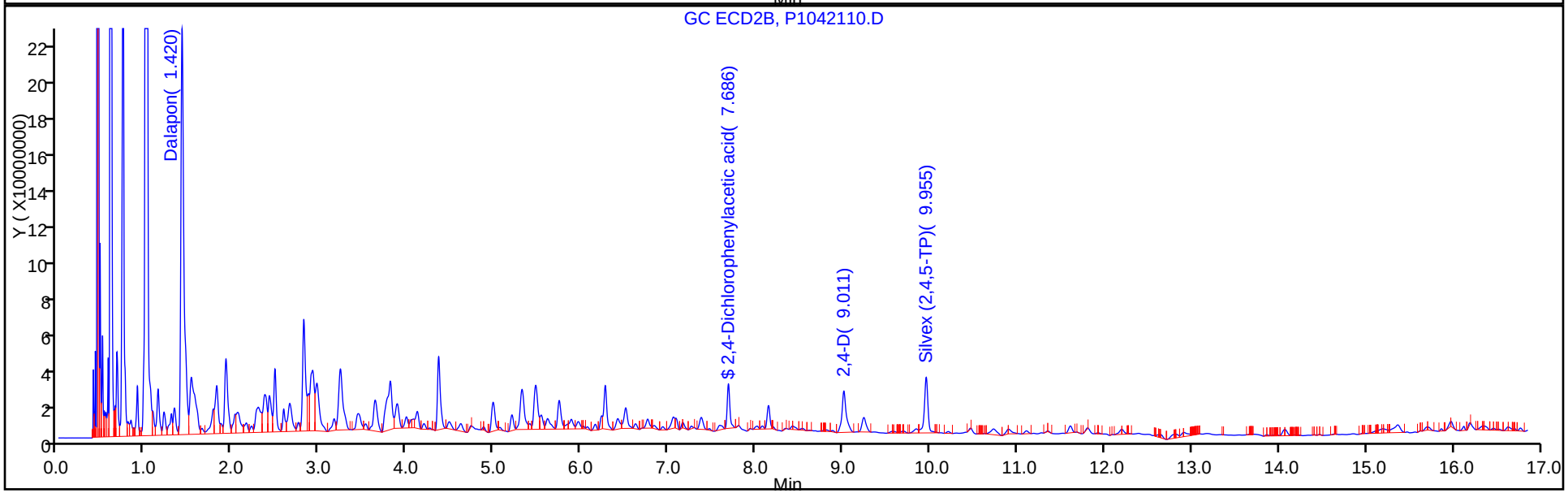
Report Date: 22-Apr-2015 11:30:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042110.D

Injection Date:	21-Apr-2015 21:17:45	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	240-49236-B-1-G MS			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8151_1	Limit Group:	GC 8151 DOD		





FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0383-0001-IDW MS Lab Sample ID: 240-49236-1 MS

Matrix: Solid (TCLP) Lab File ID: P1042110.D

Analysis Method: 8151A Date Collected: 04/10/2015 08:00

Extraction Method: 8151A Date Extracted: 04/16/2015 08:24

Sample wt/vol: 100(mL) Date Analyzed: 04/21/2015 21:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 177320 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	78		37-116

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042110.D
Lims ID: 240-49236-B-1-G MS
Client ID:
Sample Type: MS
Inject. Date: 21-Apr-2015 21:17:45 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042791-010
Operator ID: 001754 Instrument ID: A2HP1

Method: \\NCChrom\ChromData\A2HP1\20150421-42791.b\8151_1.m
Limit Group: GC 8151 DOD
Last Update: 22-Apr-2015 11:30:14 Calib Date: 20-Apr-2015 20:00:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP1\20150420-42727.b\P1042020.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
5 Dalapon							
1	1.259	1.273	-0.014	179504051		1.02	E
2	1.420	1.439	-0.019	528235636		0.8078	E
						RPD = 23.27	
$ 4 2,4-Dichlorophenylacetic acid							
1	6.976	6.976	0.000	16939017	0.2000	0.1612	
2	7.686	7.689	-0.003	49856172	0.2000	0.1565	
						RPD = 2.92	
6 Dicamba							
1		7.142				ND	
2		7.855					
10 MCPP							
1		7.423				ND	
2		8.038					
9 MCPA							
1		7.585				ND	
2		8.292					
7 Dichlorprop							
1		7.955				ND	
2		8.657					
2 2,4-D							
1	8.189	8.192	-0.003	17136113	0.2000	0.1413	
2	9.011	9.013	-0.002	75450361	0.2000	0.2074	
						RPD = 37.91	
11 Pentachlorophenol							
1		8.282				ND	
2		9.315					
12 Silvex (2,4,5-TP)							
1	9.061	9.065	-0.004	23676754	0.0500	0.0371	
2	9.955	9.957	-0.002	84541721	0.0500	0.0423	
						RPD = 13.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
1 2,4,5-T							
1		9.379				ND	
2		10.437					
3 2,4-DB							
1		10.003				ND	
2		11.092					
8 Dinoseb							
1		11.225				ND	
2		11.467					

QC Flag Legend

Processing Flags

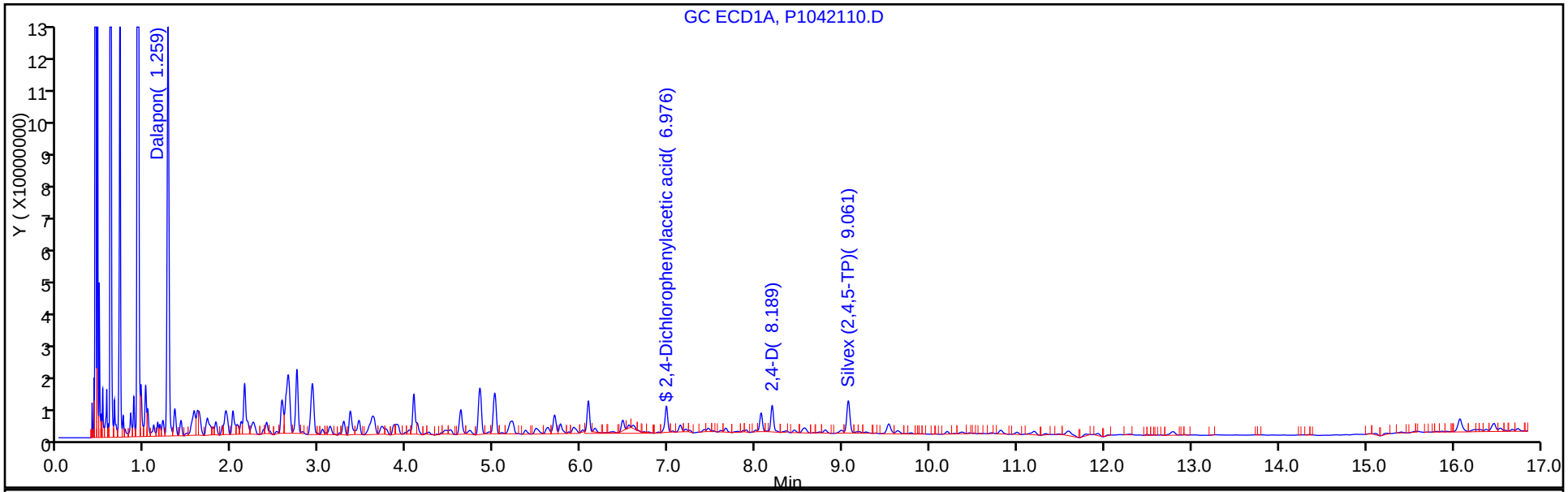
E - Exceeded Maximum Amount

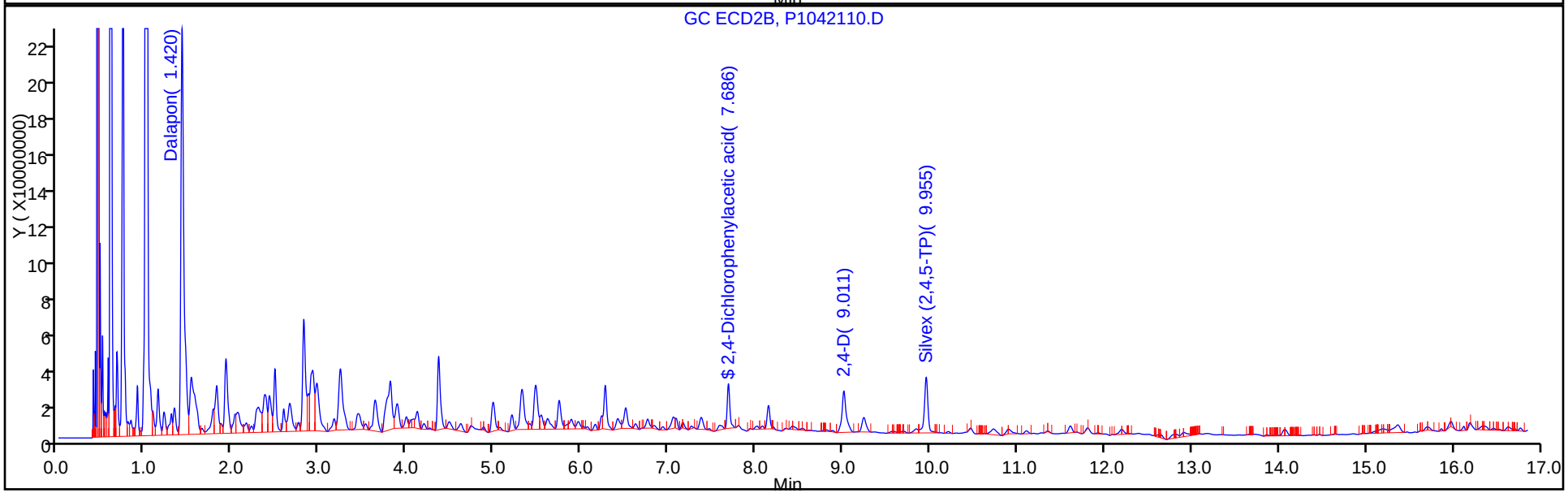
Report Date: 22-Apr-2015 11:30:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP1\20150421-42791.b\P1042110.D

Injection Date:	21-Apr-2015 21:17:45	Instrument ID:	A2HP1	Operator ID:	001754
Lims ID:	240-49236-B-1-G MS			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8151_1	Limit Group:	GC 8151 DOD		





GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP1 Start Date: 04/20/2015 14:50

Analysis Batch Number: 177103 End Date: 04/20/2015 23:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-177103/7 IC		04/20/2015 14:50	1	P1042007.D	CLP-1 0.53(mm)
STD1 240-177103/7 IC		04/20/2015 14:50	1	P1042007.D	CLP-2 0.53(mm)
STD2 240-177103/8 IC		04/20/2015 15:14	1	P1042008.D	CLP-1 0.53(mm)
STD2 240-177103/8 IC		04/20/2015 15:14	1	P1042008.D	CLP-2 0.53(mm)
STD3 240-177103/9 ICRT		04/20/2015 15:38	1	P1042009.D	CLP-1 0.53(mm)
STD3 240-177103/9 ICRT		04/20/2015 15:38	1	P1042009.D	CLP-2 0.53(mm)
STD4 240-177103/10 IC		04/20/2015 16:02	1	P1042010.D	CLP-1 0.53(mm)
STD4 240-177103/10 IC		04/20/2015 16:02	1	P1042010.D	CLP-2 0.53(mm)
STD5 240-177103/11 IC		04/20/2015 16:26	1	P1042011.D	CLP-1 0.53(mm)
STD5 240-177103/11 IC		04/20/2015 16:26	1	P1042011.D	CLP-2 0.53(mm)
STD6 240-177103/12 IC		04/20/2015 16:50	1	P1042012.D	CLP-1 0.53(mm)
STD6 240-177103/12 IC		04/20/2015 16:50	1	P1042012.D	CLP-2 0.53(mm)
STD7 240-177103/13 IC		04/20/2015 17:13	1	P1042013.D	CLP-1 0.53(mm)
STD7 240-177103/13 IC		04/20/2015 17:13	1	P1042013.D	CLP-2 0.53(mm)
ICV 240-177103/14		04/20/2015 17:37	1	P1042014.D	CLP-1 0.53(mm)
ICV 240-177103/14		04/20/2015 17:37	1	P1042014.D	CLP-2 0.53(mm)
STD1 240-177103/15 IC		04/20/2015 18:01	1		CLP-1 0.53(mm)
STD1 240-177103/15 IC		04/20/2015 18:01	1		CLP-2 0.53(mm)
STD2 240-177103/16 IC		04/20/2015 18:25	1		CLP-1 0.53(mm)
STD2 240-177103/16 IC		04/20/2015 18:25	1		CLP-2 0.53(mm)
STD3 240-177103/17 ICRT		04/20/2015 18:49	1		CLP-1 0.53(mm)
STD3 240-177103/17 ICRT		04/20/2015 18:49	1		CLP-2 0.53(mm)
STD4 240-177103/18 IC		04/20/2015 19:13	1		CLP-1 0.53(mm)
STD4 240-177103/18 IC		04/20/2015 19:13	1		CLP-2 0.53(mm)
STD5 240-177103/19 IC		04/20/2015 19:36	1		CLP-1 0.53(mm)
STD5 240-177103/19 IC		04/20/2015 19:36	1		CLP-2 0.53(mm)
STD6 240-177103/20 IC		04/20/2015 20:00	1		CLP-1 0.53(mm)
STD6 240-177103/20 IC		04/20/2015 20:00	1		CLP-2 0.53(mm)
ICV 240-177103/21		04/20/2015 20:24	1		CLP-1 0.53(mm)
ICV 240-177103/21		04/20/2015 20:24	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2015 21:11	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2015 21:11	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2015 21:35	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2015 21:35	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2015 21:59	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2015 21:59	1		CLP-2 0.53(mm)

8151A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP1 Start Date: 04/20/2015 14:50

Analysis Batch Number: 177103 End Date: 04/20/2015 23:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/20/2015 22:23	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2015 22:23	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2015 22:47	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2015 22:47	1		CLP-2 0.53(mm)
CCV 240-177103/28		04/20/2015 23:10	1		CLP-1 0.53(mm)
CCV 240-177103/28		04/20/2015 23:10	1		CLP-2 0.53(mm)

8151A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: A2HP1 Start Date: 04/21/2015 20:06

Analysis Batch Number: 177320 End Date: 04/21/2015 23:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MRL 240-177320/7		04/21/2015 20:06	1	P1042107.D	CLP-1 0.53(mm)
MRL 240-177320/7		04/21/2015 20:06	1	P1042107.D	CLP-2 0.53(mm)
CCV 240-177320/8 CCVRT		04/21/2015 20:30	1	P1042108.D	CLP-1 0.53(mm)
CCV 240-177320/8 CCVRT		04/21/2015 20:30	1	P1042108.D	CLP-2 0.53(mm)
240-49236-1	079SB-0383-0001-IDW	04/21/2015 20:53	1	P1042109.D	CLP-1 0.53(mm)
240-49236-1	079SB-0383-0001-IDW	04/21/2015 20:53	1	P1042109.D	CLP-2 0.53(mm)
240-49236-1 MS	079SB-0383-0001-IDW MS	04/21/2015 21:17	1	P1042110.D	CLP-1 0.53(mm)
240-49236-1 MS	079SB-0383-0001-IDW MS	04/21/2015 21:17	1	P1042110.D	CLP-2 0.53(mm)
240-49236-2	079SB-0384-0001-IDW	04/21/2015 21:41	1	P1042111.D	CLP-1 0.53(mm)
240-49236-2	079SB-0384-0001-IDW	04/21/2015 21:41	1	P1042111.D	CLP-2 0.53(mm)
MB 240-176663/5-A		04/21/2015 22:05	1	P1042112.D	CLP-1 0.53(mm)
MB 240-176663/5-A		04/21/2015 22:05	1	P1042112.D	CLP-2 0.53(mm)
LCS 240-176663/6-A		04/21/2015 22:29	1	P1042113.D	CLP-1 0.53(mm)
LCS 240-176663/6-A		04/21/2015 22:29	1	P1042113.D	CLP-2 0.53(mm)
CCV 240-177320/14		04/21/2015 22:52	1	P1042114.D	CLP-1 0.53(mm)
CCV 240-177320/14		04/21/2015 22:52	1	P1042114.D	CLP-2 0.53(mm)
MRL 240-177320/15		04/21/2015 23:16	1	P1042115.D	CLP-1 0.53(mm)
MRL 240-177320/15		04/21/2015 23:16	1	P1042115.D	CLP-2 0.53(mm)

8151A

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176620 Batch Start Date: 04/15/15 17:00 Batch Analyst: Jones, Diane

Batch Method: 1311 Batch End Date: 04/16/15 09:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXpH(0-14) 00006	EXTCLPBUFF1 00469	EXTCLPFILTERS 00023	EXTCLPHCLW 00044	AnalysisComment	
240-49236-B-1	079SB-0383-0001-IDW	1311, 8151A, 8151A	P	1 mL	1 mL	1	1 mL	MS for Herb	
240-49236-F-2	079SB-0384-0001-IDW	1311, 8151A, 8151A	P	1 mL	1 mL	1	1 mL	Filter only H2O	

Batch Notes	
Tumbler Rotations per Minute	A, E = 31rpm

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176663 Batch Start Date: 04/16/15 08:24 Batch Analyst: Coast, Chris

Batch Method: 8151A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FirstAdjustpH	SecondAdjustpH	FinalAmount	EXHERBTSPIKEW 00017
240-49236-B-1-C	079SB-0383-0001-IDW	8151A, 8151A	P	5 SU	100 mL	12	2	10 mL	
240-49236-B-1-C MS	079SB-0383-0001-IDW	8151A, 8151A	P	5 SU	100 mL	12	2	10 mL	1 mL
240-49236-F-2-A	079SB-0384-0001-IDW	8151A, 8151A	P	7 SU	100 mL	12	2	10 mL	
MB 240-176663/5		8151A, 8151A		5 SU	100 mL	12	2	10 mL	
LCS 240-176663/6		8151A, 8151A		5 SU	100 mL	12	2	10 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXTCLPHERBSUR 00020					
240-49236-B-1-C	079SB-0383-0001-IDW	8151A, 8151A	P	1 mL					
240-49236-B-1-C MS	079SB-0383-0001-IDW	8151A, 8151A	P	1 mL					
240-49236-F-2-A	079SB-0384-0001-IDW	8151A, 8151A	P	1 mL					
MB 240-176663/5		8151A, 8151A		1 mL					
LCS 240-176663/6		8151A, 8151A		1 mL					

Batch Notes	
1:1 Sulfuric + Water Lot	1889345
Acidic Sodium Sulfate Lot	1930573
Diethyl Ether Lot #	1930567
Hexane Lot#	1864451
MeCL2 Lot #	1952537
Na2SO4, Acidified Lot #	1930573
NaCl Lot #	1930812
NaOH Lot #	1889396
pH Paper Lot Number	1385030
Silica Gel Lot Number	1555620
TMSDM Lot #	1555819

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176663 Batch Start Date: 04/16/15 08:24 Batch Analyst: Coast, Chris

Batch Method: 8151A Batch End Date:

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8330 Nitroguanidine

Nitroguanidine (HPLC) by Method 8330

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 320-0021160-016-1.d

Lab ID: LCS 320-71039/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Nitroguanidine	250	195	78	73-117	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 320-0021160-018-1.d

Lab ID: 240-49236-3 MS Client ID: 079SB-0385-0001-SW MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Nitroguanidine	250	6.0 U	206	82	73-117	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 320-0021160-019-1.d

Lab ID: 240-49236-3 MSD Client ID: 079SB-0385-0001-SW MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Nitroguanidine	250	206	83	0	15	73-117	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab File ID: 320-0021160-015-1.d Lab Sample ID: MB 320-71039/1-A

Matrix: Water Date Extracted: 04/13/2015 19:24

Instrument ID: PDA1 Date Analyzed: 04/20/2015 16:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-71039/2-A	320-0021160-016-1.d	04/20/2015 16:48
079SB-0385-0001-SW	240-49236-3	320-0021160-017-1.d	04/20/2015 17:05
079SB-0385-0001-SW MS	240-49236-3 MS	320-0021160-018-1.d	04/20/2015 17:23
079SB-0385-0001-SW MSD	240-49236-3 MSD	320-0021160-019-1.d	04/20/2015 17:41

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW Lab Sample ID: 240-49236-3

Matrix: Water Lab File ID: 320-0021160-017-1.d

Analysis Method: 8330 Modified Date Collected: 04/10/2015 08:45

Extraction Method: Filtration Date Extracted: 04/13/2015 19:24

Sample wt/vol: 10.00(mL) Date Analyzed: 04/20/2015 17:05

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 71582 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	6.0	U	20	6.0	2.4

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-017-1.d				
Lims ID:	240-49236-E-3-A	Lab Sample ID:	320-49236-3		
Client ID:	079SB-0385-0001-SW				
Sample Type:	Client				
Inject. Date:	20-Apr-2015 17:05:00	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021160-017 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	20-Apr-2015 18:13:05	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK001				
First Level Reviewer: huangyun		Date:	20-Apr-2015 17:17:29		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

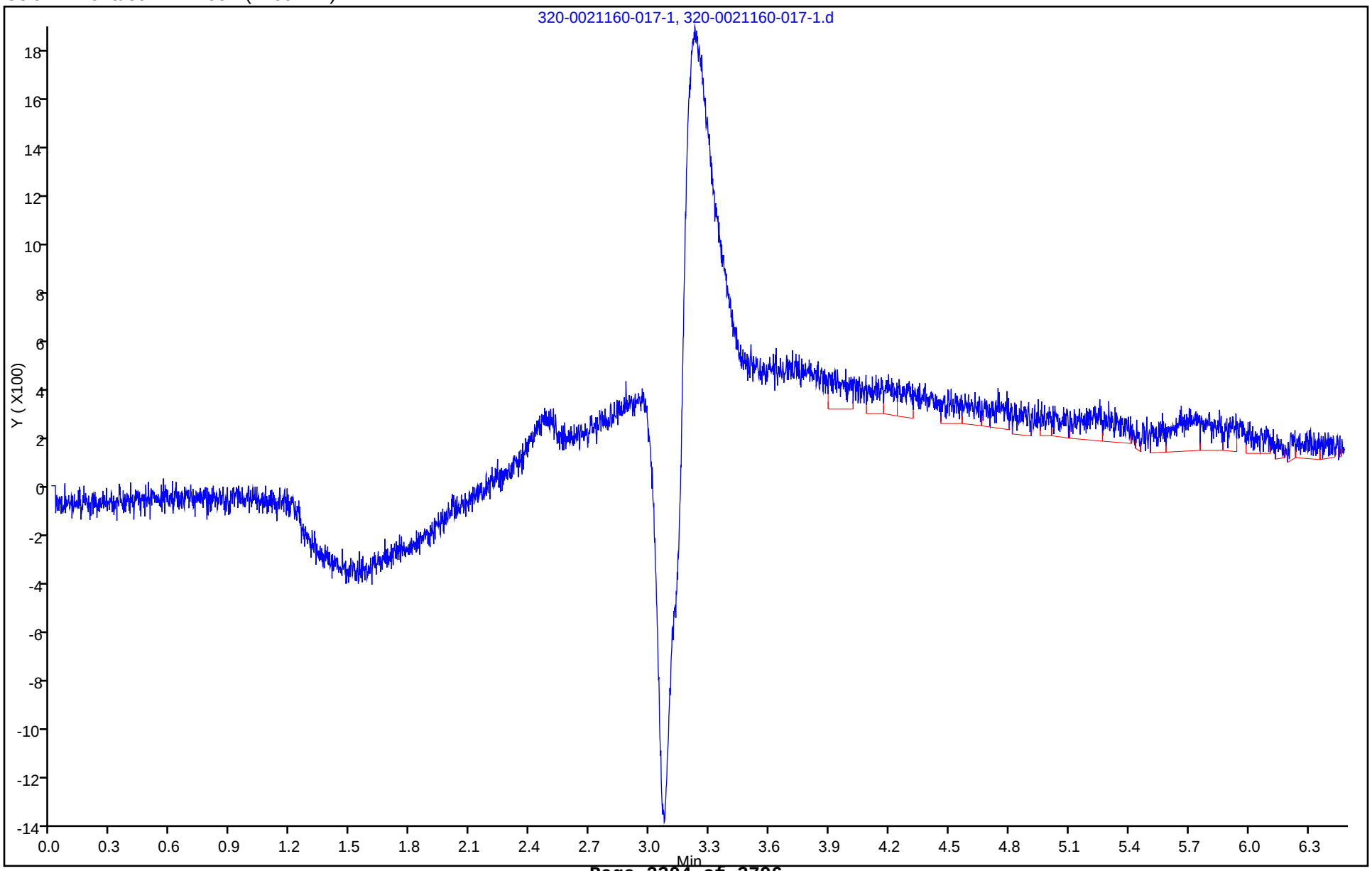
Report Date: 20-Apr-2015 17:17:30 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-017-1.d

Injection Date:	20-Apr-2015 17:05:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	240-49236-E-3-A	Lab Sample ID:	320-49236-3	Worklist Smp#:	17
Client ID:	079SB-0385-0001-SW				
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 70867

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2015 17:35 Calibration End Date: 04/10/2015 19:22 Calibration ID: 12871

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-70867/43	STD02-1.d
Level 2	STD03 320-70867/5	320-0020944-005-1.d
Level 3	STD04 320-70867/6	320-0020944-006-1.d
Level 4	STD05 320-70867/7	320-0020944-007-1.d
Level 5	STD06 320-70867/8	320-0020944-008-1.d
Level 6	STD07 320-70867/9	320-0020944-009-1.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Nitroguanidine	4.237	4.250	4.237	4.213	4.233	4.240					3.963 - 4.463	4.235

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 70867

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2015 17:35 Calibration End Date: 04/10/2015 19:22 Calibration ID: 12871

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-70867/43	STD02-1.d
Level 2	STD03 320-70867/5	320-0020944-005-1.d
Level 3	STD04 320-70867/6	320-0020944-006-1.d
Level 4	STD05 320-70867/7	320-0020944-007-1.d
Level 5	STD06 320-70867/8	320-0020944-008-1.d
Level 6	STD07 320-70867/9	320-0020944-009-1.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Nitroguanidine	27.200 23.976	25.640 22.980	25.800	24.460	Ave		25.0093333				6.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 70867

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2015 17:35 Calibration End Date: 04/10/2015 19:22 Calibration ID: 12871

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-70867/43	STD02-1.d
Level 2	STD03 320-70867/5	320-0020944-005-1.d
Level 3	STD04 320-70867/6	320-0020944-006-1.d
Level 4	STD05 320-70867/7	320-0020944-007-1.d
Level 5	STD06 320-70867/8	320-0020944-008-1.d
Level 6	STD07 320-70867/9	320-0020944-009-1.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Nitroguanidine	Ave	544 22980	1282	2580	4892	11988	20.0 1000	50.0	100	200	500

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-005-1.d
Lims ID: std03
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Apr-2015 17:35:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-005 Analysis
Misc. Info.: none STD
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 10:47:34 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK053

First Level Reviewer: huangyun Date: 13-Apr-2015 10:19:02

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.250	4.213	0.037	1282H	50.0	51.3	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HPNQL3_00007 Amount Added: 1.00 Units: mL

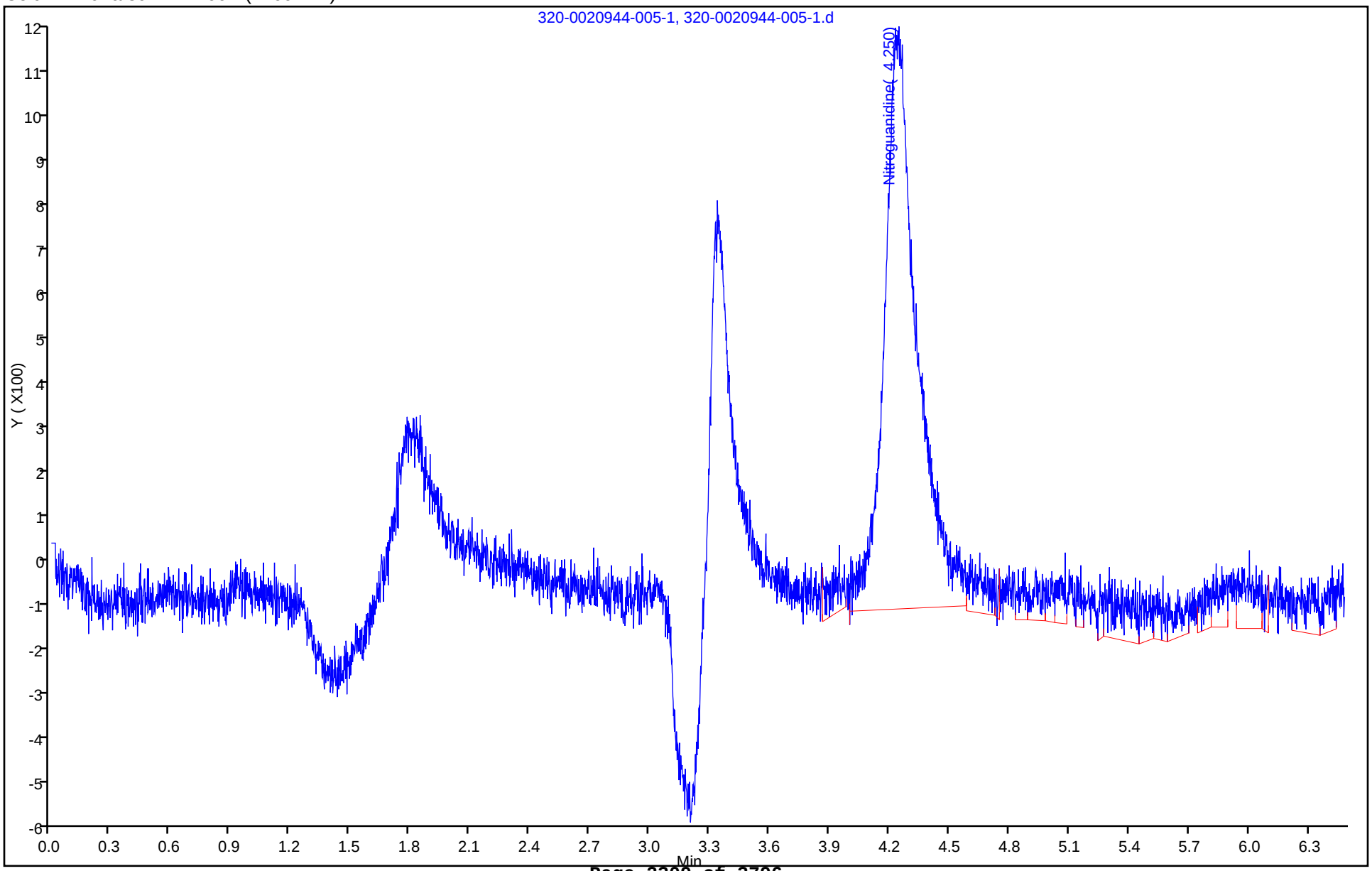
Report Date: 13-Apr-2015 10:47:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-005-1.d

Injection Date:	10-Apr-2015 17:35:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std03			Worklist Smp#:	5
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

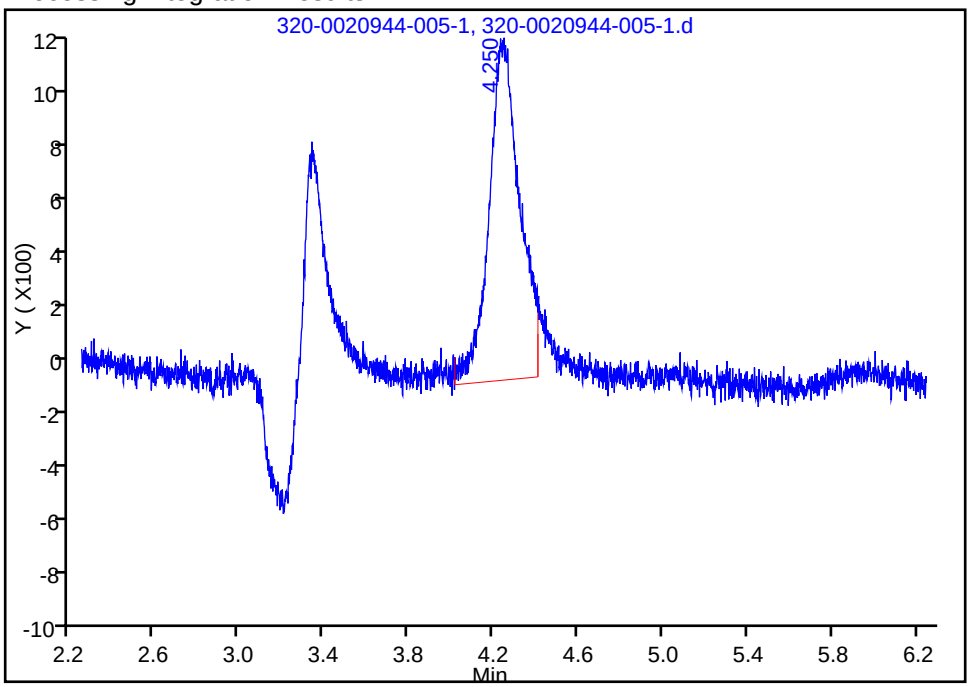
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-005-1.d
Injection Date: 10-Apr-2015 17:35:00 Instrument ID: PDA1
Lims ID: std03
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

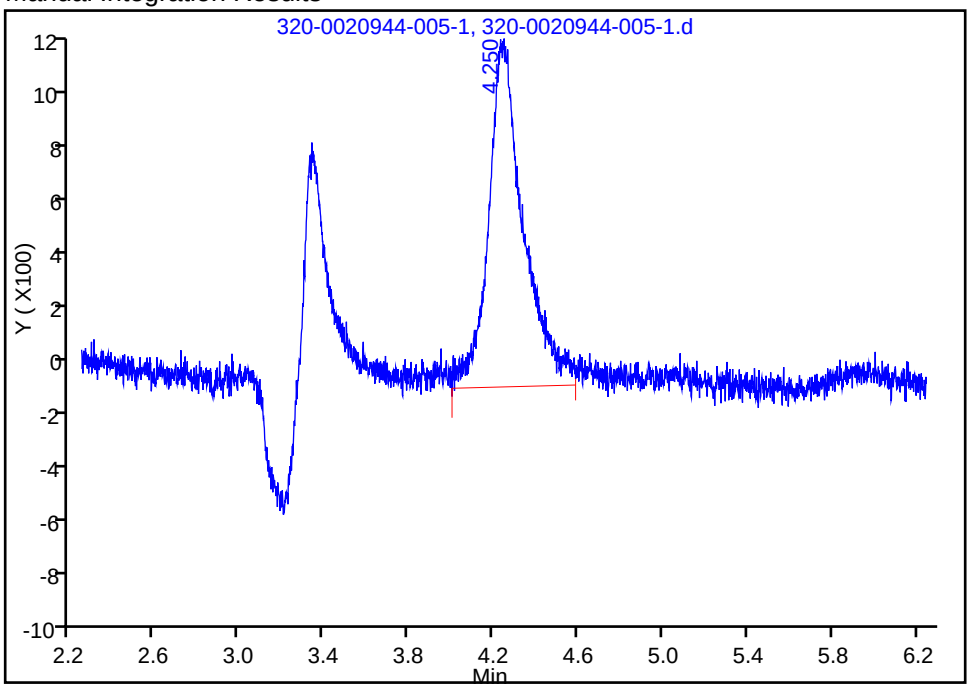
Processing Integration Results

RT: 4.25
Height: 1260
Amount: 50.529355
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Height: 1282
Amount: 51.260863
Amount Units: ng/ml



Reviewer: huangyun, 13-Apr-2015 10:21:20
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-006-1.d
Lims ID: std04
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Apr-2015 17:53:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-006 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 10:47:34 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK053

First Level Reviewer: huangyun Date: 13-Apr-2015 10:31:30

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.237	4.213	0.024	2580H	100.0	103.2	

Reagents:

HPNQL4_00009 Amount Added: 1.00 Units: mL

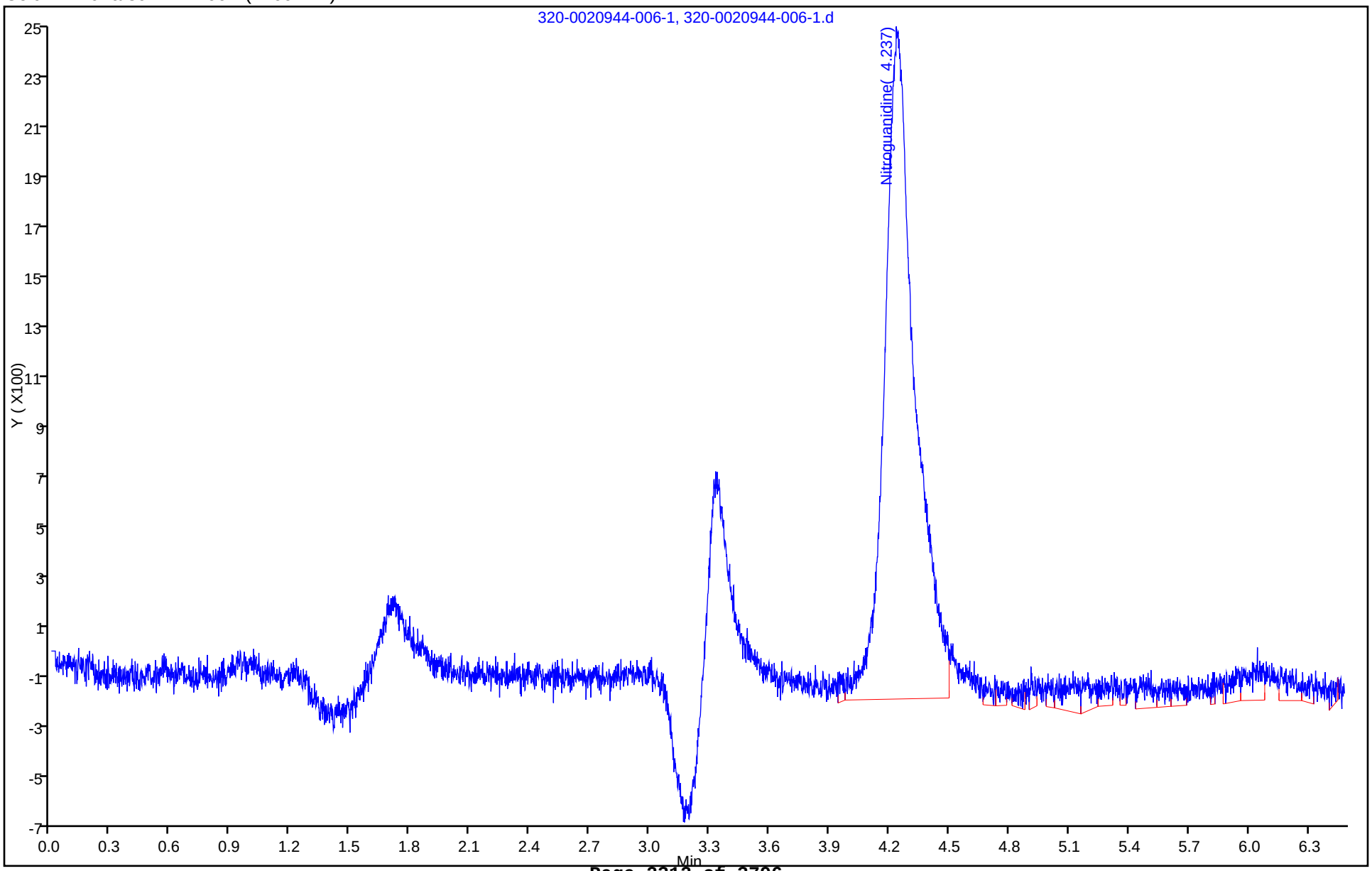
Report Date: 13-Apr-2015 10:47:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-006-1.d

Injection Date:	10-Apr-2015 17:53:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std04			Worklist Smp#:	6
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-007-1.d
Lims ID: std05
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Apr-2015 18:11:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-007 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 10:47:35 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK053

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.213	4.213	0.000	4892H	200.0	195.6	

Reagents:

HPNQL5_00008 Amount Added: 1.00 Units: mL

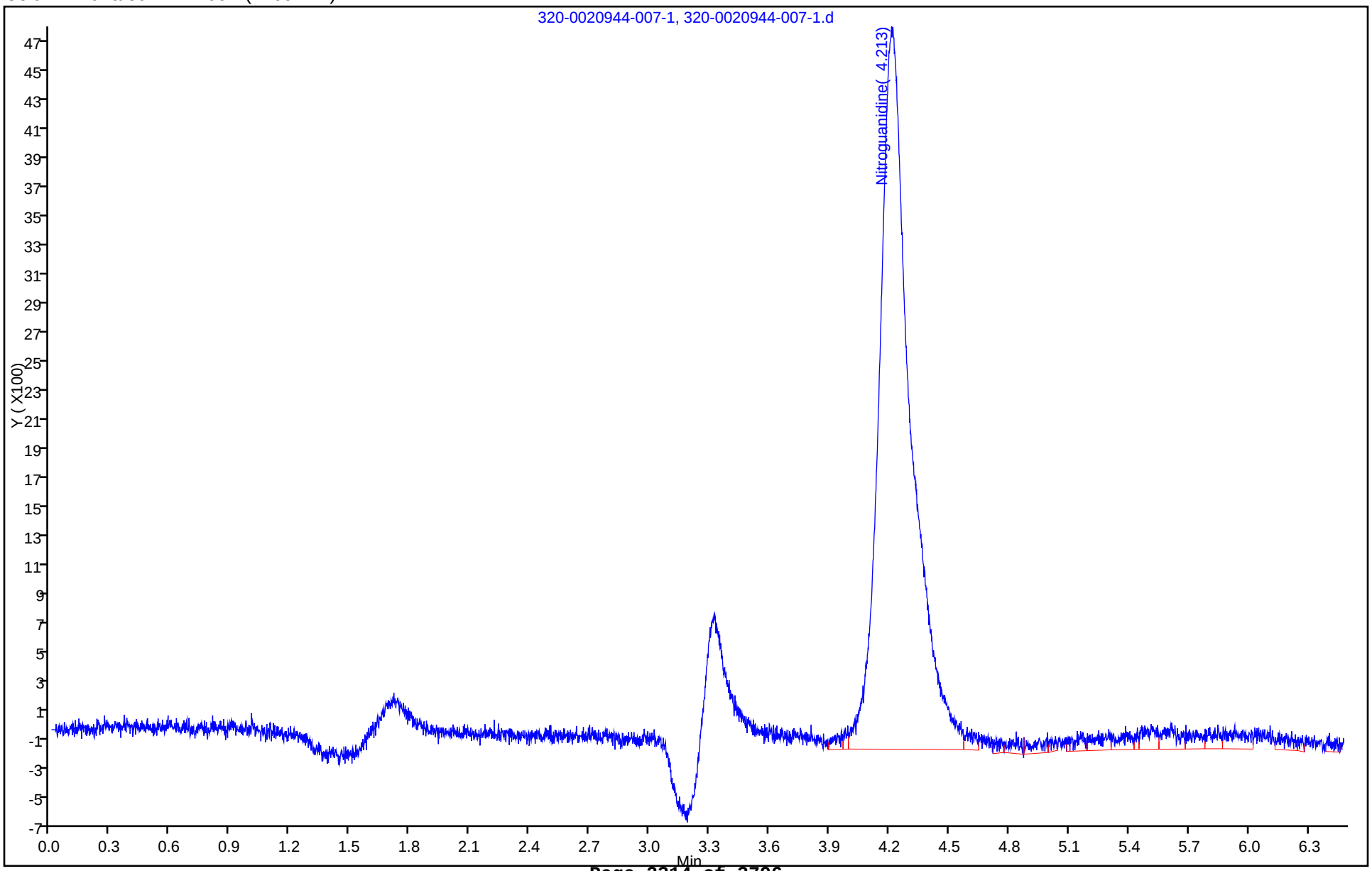
Report Date: 13-Apr-2015 10:47:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-007-1.d

Injection Date:	10-Apr-2015 18:11:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std05			Worklist Smp#:	7
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-008-1.d
Lims ID: std06
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Apr-2015 18:29:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-008 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 10:47:36 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK053

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.233	4.213	0.020	11988H	500.0	479.3	

Reagents:

HPNQL6_00007 Amount Added: 1.00 Units: mL

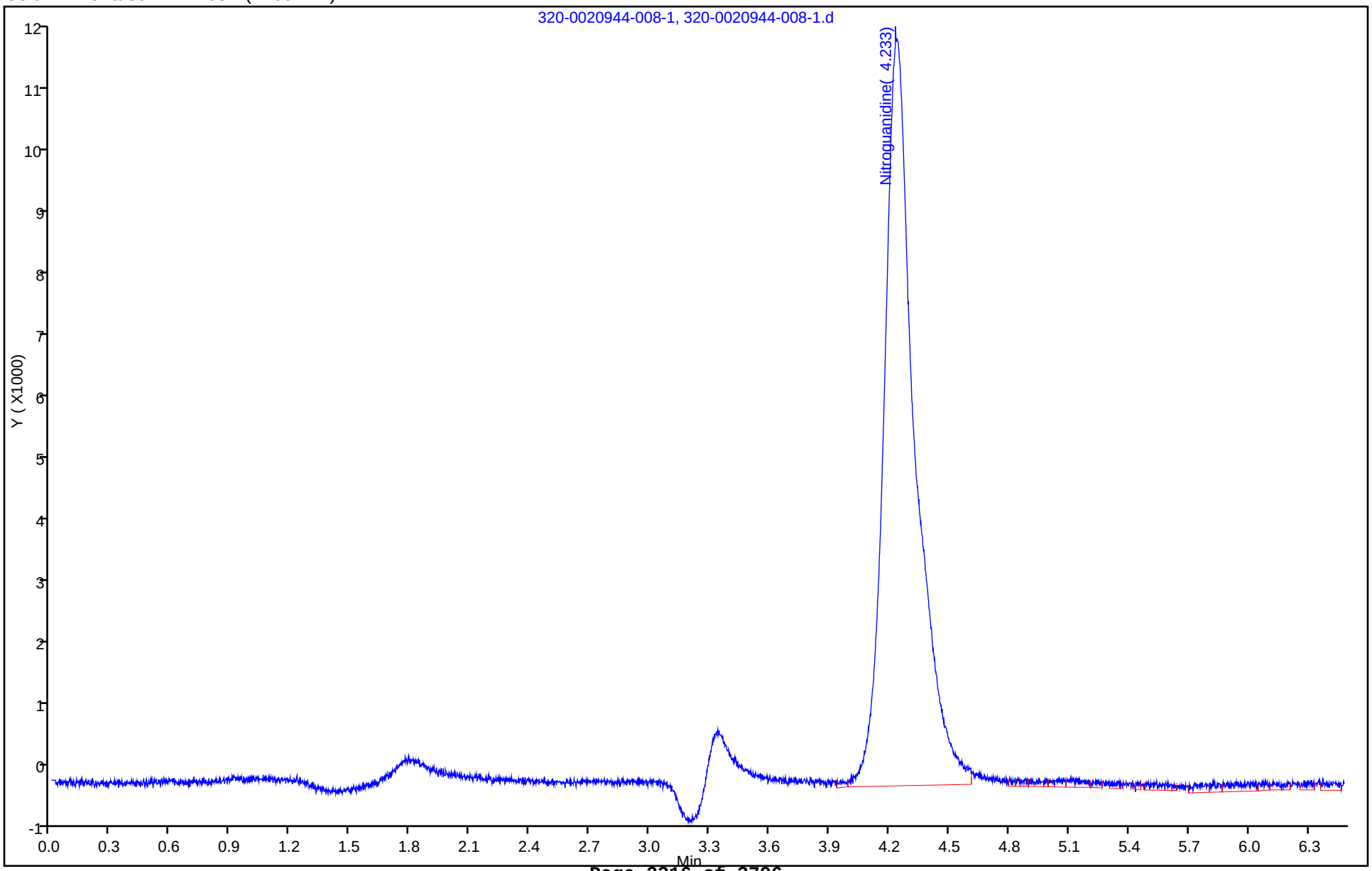
Report Date: 13-Apr-2015 10:47:36 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-008-1.d

Injection Date:	10-Apr-2015 18:29:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std06			Worklist Smp#:	8
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-009-1.d			
Lims ID:	std07			
Client ID:				
Sample Type:	IC	Calib Level:	7	
Inject. Date:	10-Apr-2015 18:46:00	ALS Bottle#:	0	Worklist Smp#: 9
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	
Sample Info:	320-0020944-009 Analysis			
Misc. Info.:	none SAMPLE			
Operator ID:	YPH	Instrument ID:	PDA1	
Sublist:	chrom-NGu Primary*sub1			
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m			
Limit Group:	LC 8330 Ngu ICAL			
Last Update:	13-Apr-2015 10:50:11	Calib Date:	10-Apr-2015 19:22:00	
Integrator:	Falcon			
Quant Method:	External Standard	Quant By:	Initial Calibration	
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d			
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS	
Process Host:	XAWRK053			

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.240	4.213	0.027	22980	H 1000.0	918.9	

Reagents:

HPNQL7_00007 Amount Added: 1.00 Units: mL

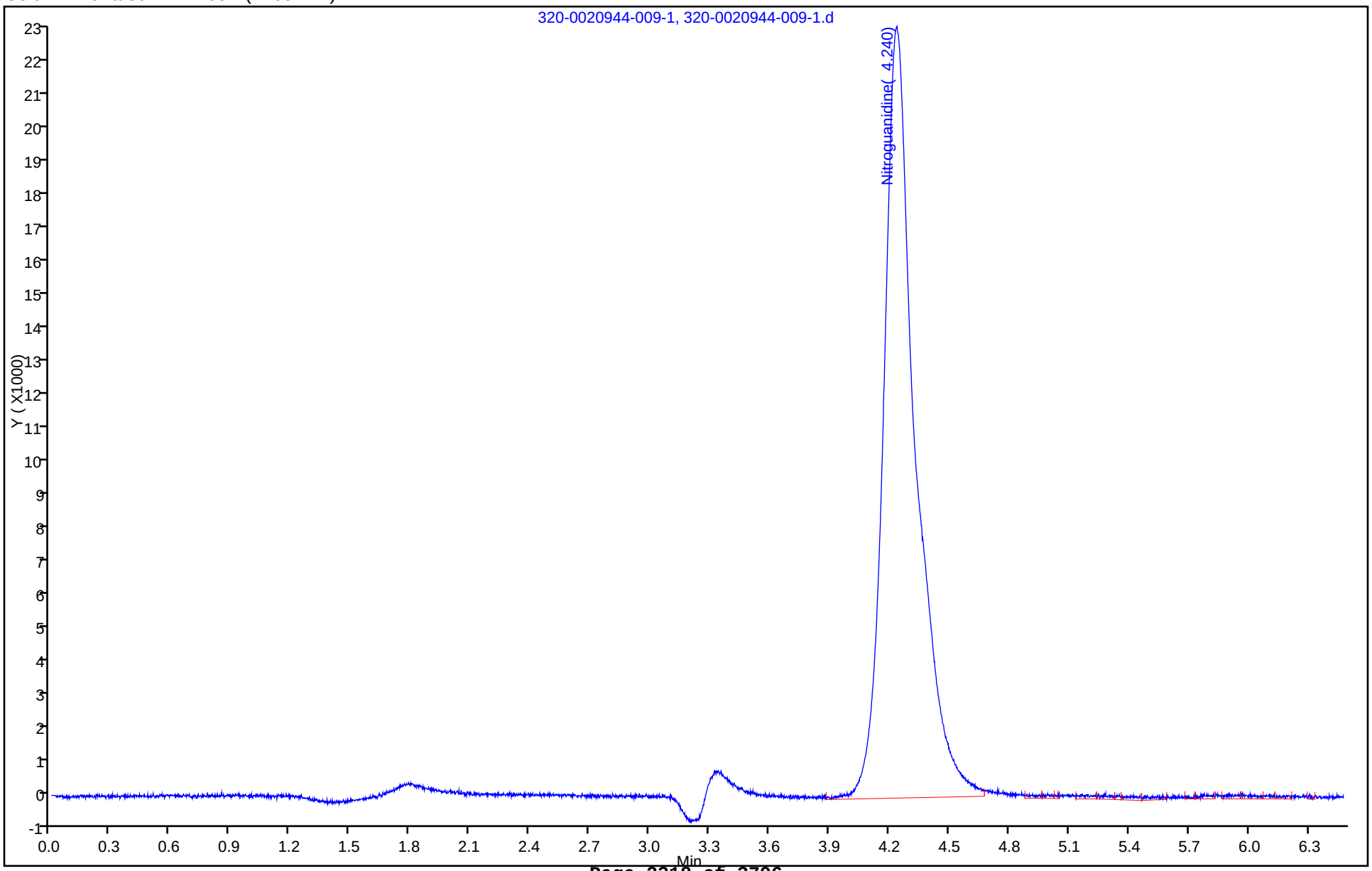
Report Date: 13-Apr-2015 10:50:11 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-009-1.d

Injection Date:	10-Apr-2015 18:46:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std07			Worklist Smp#:	9
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Lims ID:	std02				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	10-Apr-2015 19:22:00	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	STD02 Analysis				
Misc. Info.:	none STD				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:	chrom-NGu Primary*sub1				
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	13-Apr-2015 10:47:36	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK053				

First Level Reviewer: huangyun Date: 13-Apr-2015 10:20:45

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.237	4.213	0.024	544H	20.0	21.8	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

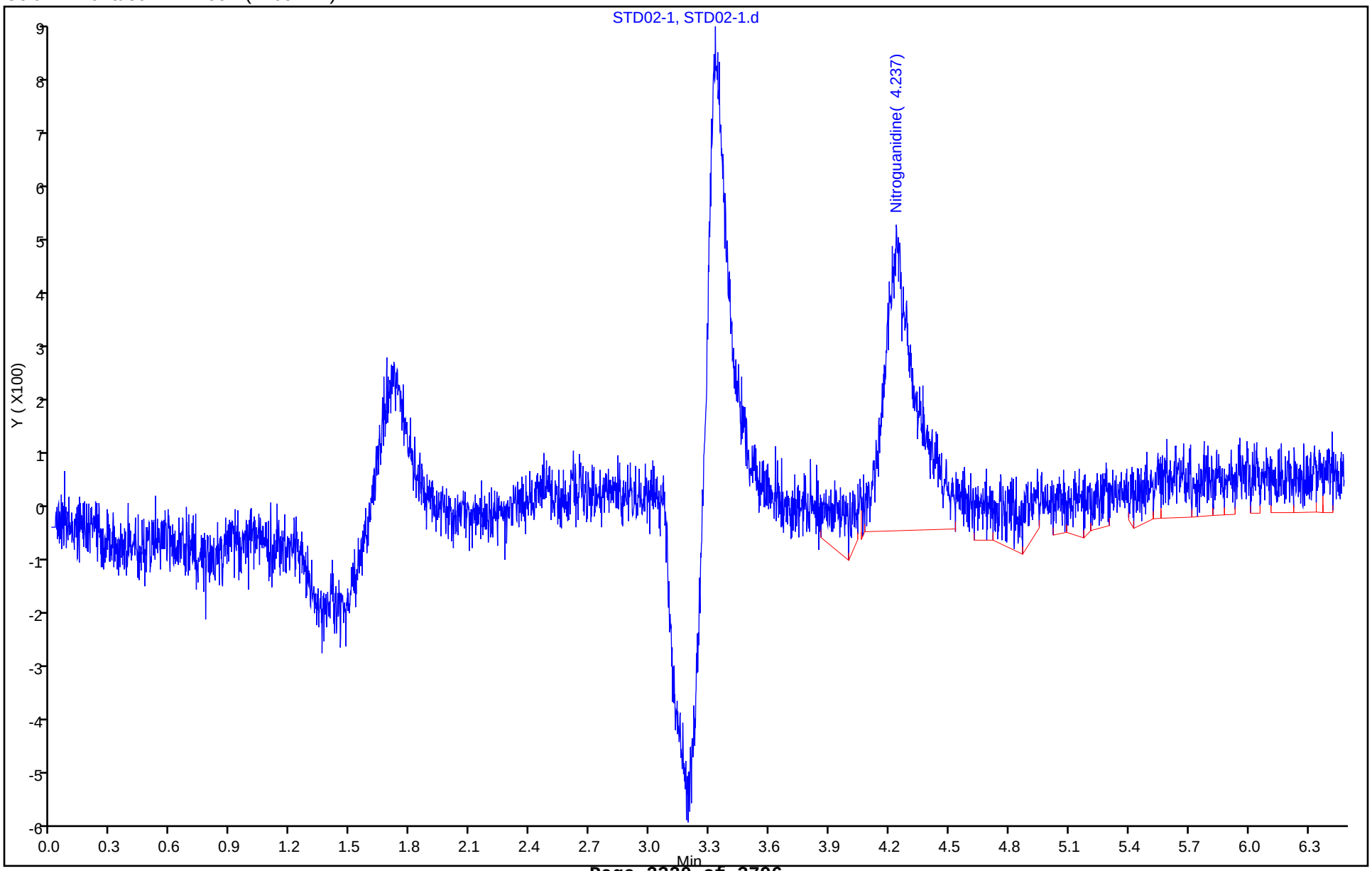
Report Date: 13-Apr-2015 10:47:36 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Injection Date:	10-Apr-2015 19:22:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std02			Worklist Smp#:	43
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

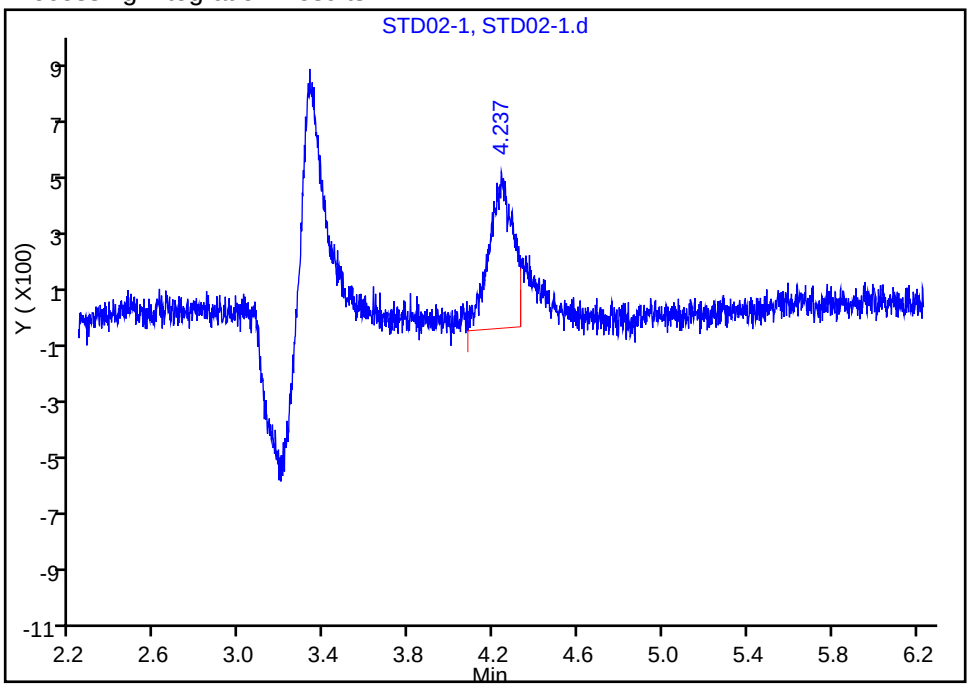
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Injection Date:	10-Apr-2015 19:22:00	Instrument ID:	PDA1		
Lims ID:	std02				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		
Column:	Luna 5u NH2 100A (4.60 mm)	Detector	UV-VIS		

1 Nitroguanidine, CAS: 556-88-7

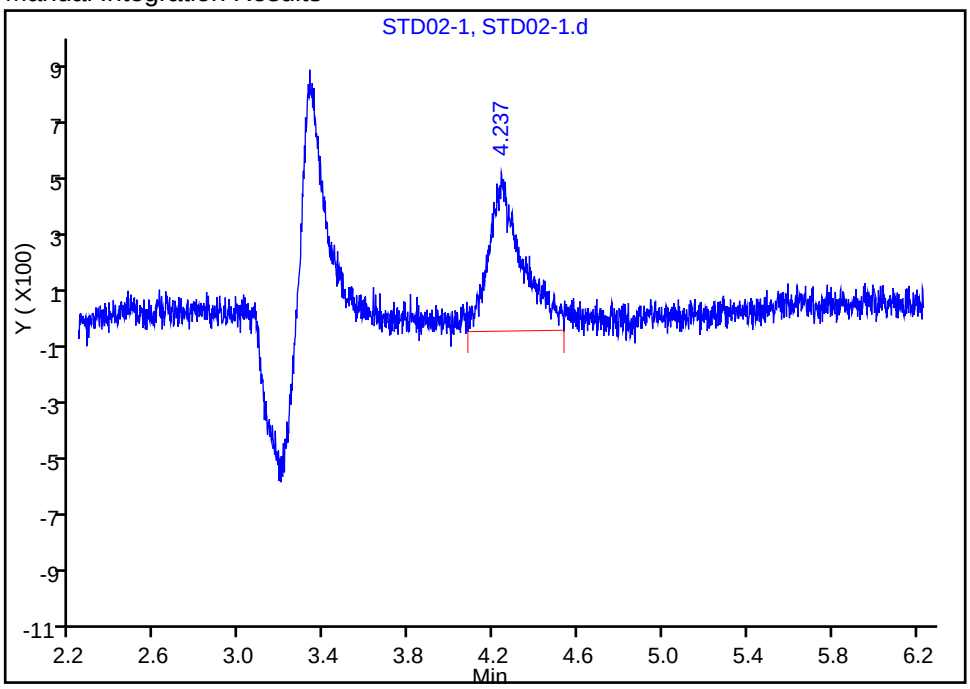
Processing Integration Results

RT: 4.24
Height: 537
Amount: 21.585626
Amount Units: ng/ml



Manual Integration Results

RT: 4.24
Height: 544
Amount: 21.751879
Amount Units: ng/ml



Reviewer: huangyun, 13-Apr-2015 10:20:45
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 320-70867/11 Calibration Date: 04/10/2015 19:40

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-011-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	21.84		437	500	-12.7	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 320-70867/11 Calibration Date: 04/10/2015 19:40

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-011-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.26	3.96	4.46

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-011-1.d				
Lims ID:	ICV				
Client ID:					
Sample Type:	ICV				
Inject. Date:	10-Apr-2015 19:40:00	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0020944-011 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:					
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	13-Apr-2015 16:49:20	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK002				
First Level Reviewer: pagem		Date:	14-Apr-2015 13:55:44		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.258	4.213	0.045	10921	H 500.0	436.7	

Reagents:

HPNQIC_00007 Amount Added: 1.00 Units: mL

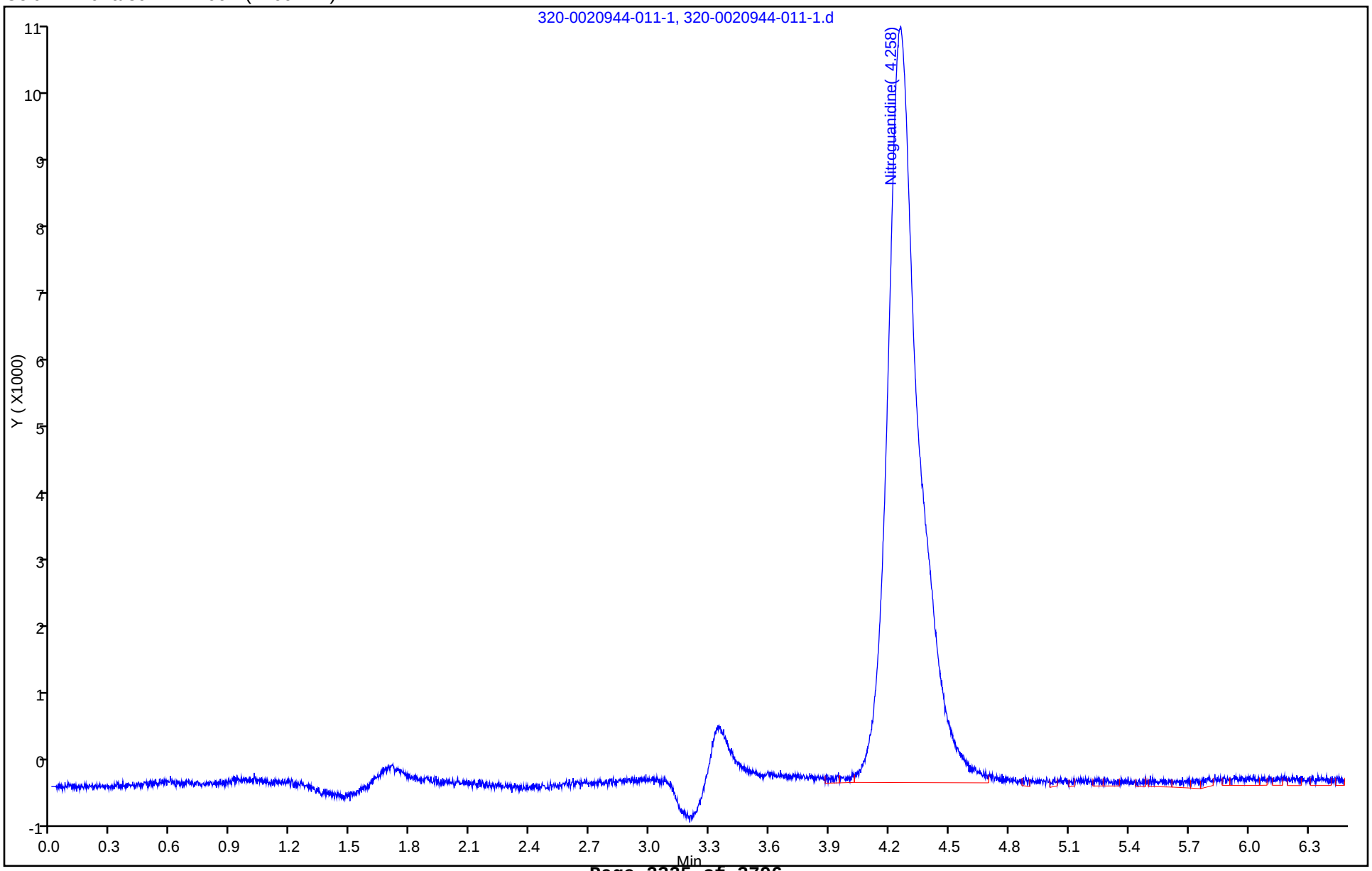
Report Date: 14-Apr-2015 13:55:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-011-1.d

Injection Date:	10-Apr-2015 19:40:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 320-70867/12 Calibration Date: 04/10/2015 19:57

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-012-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	25.25		20.2	20.0	1.0	

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 320-70867/12 Calibration Date: 04/10/2015 19:57

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-012-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.26	3.96	4.46

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-012-1.d
Lims ID: LODV
Client ID:
Sample Type: LODV
Inject. Date: 10-Apr-2015 19:57:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-012 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 16:49:20 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK002

First Level Reviewer: huangyun Date: 13-Apr-2015 10:36:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.263	4.213	0.050	505H	20.0	20.2	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

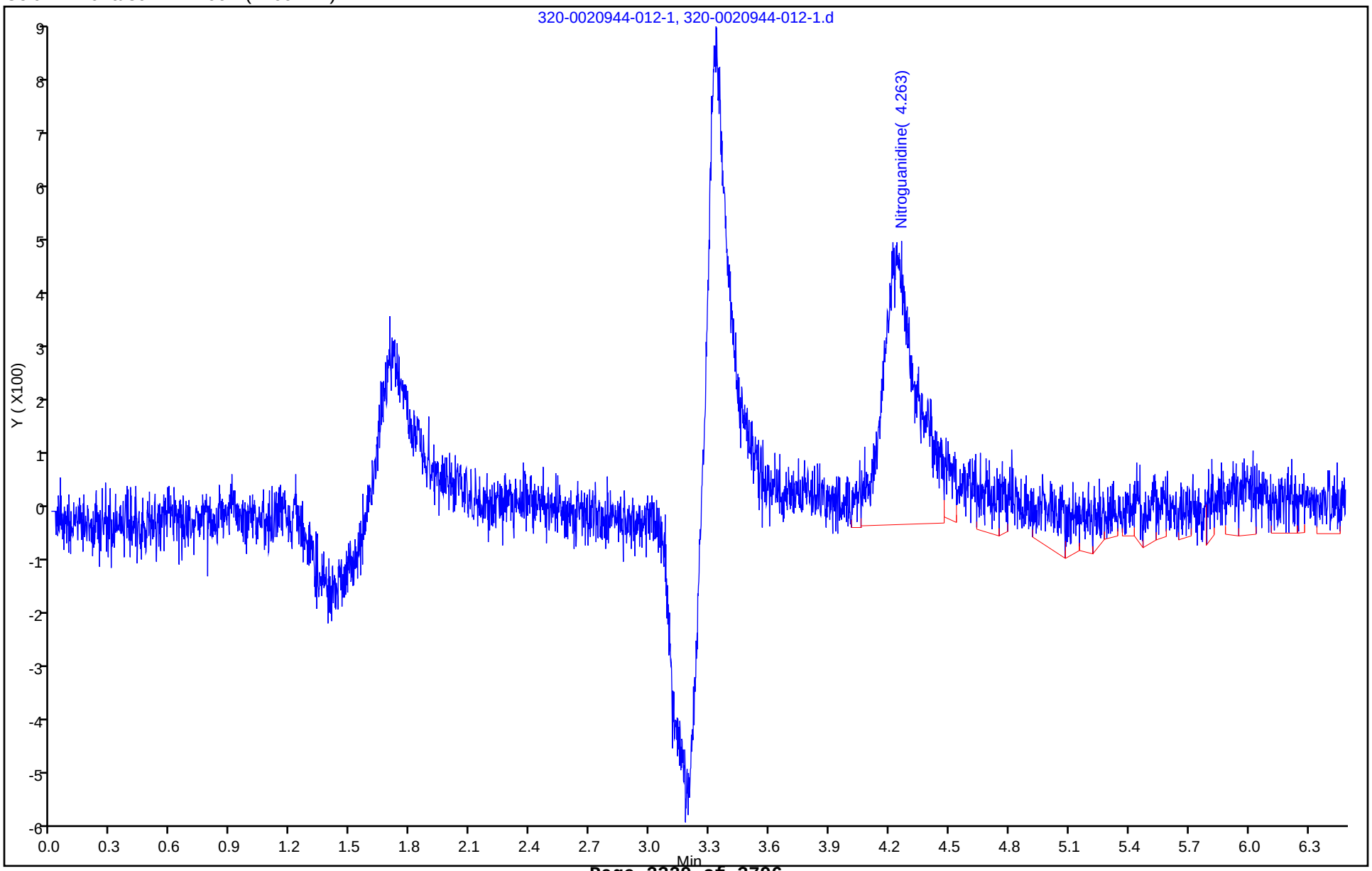
Report Date: 14-Apr-2015 13:55:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-012-1.d

Injection Date:	10-Apr-2015 19:57:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	LODV			Worklist Smp#:	12
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

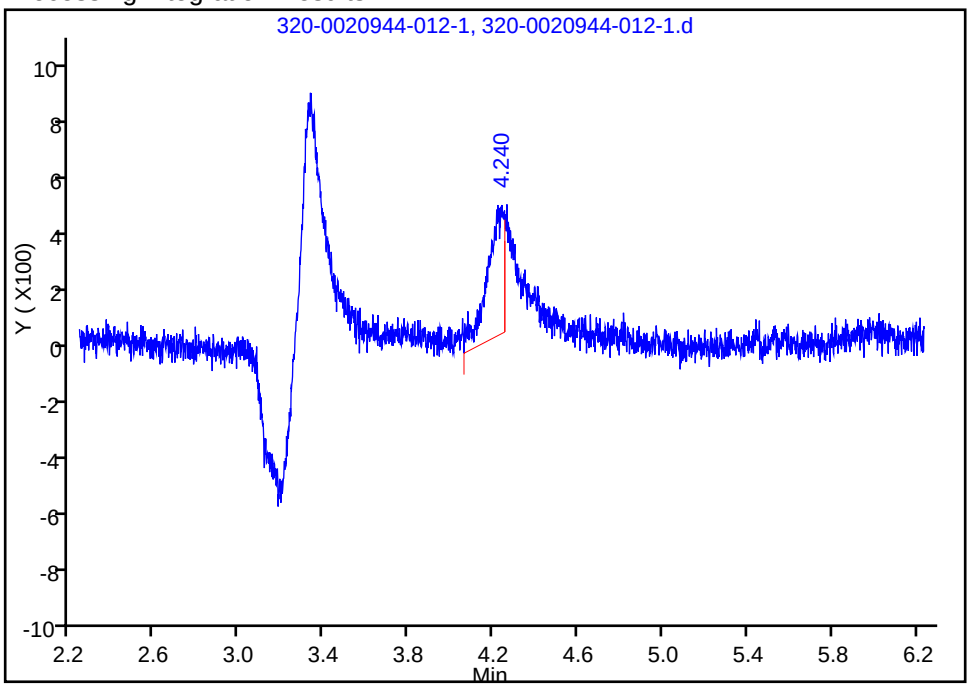
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-012-1.d
Injection Date: 10-Apr-2015 19:57:00 Instrument ID: PDA1
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

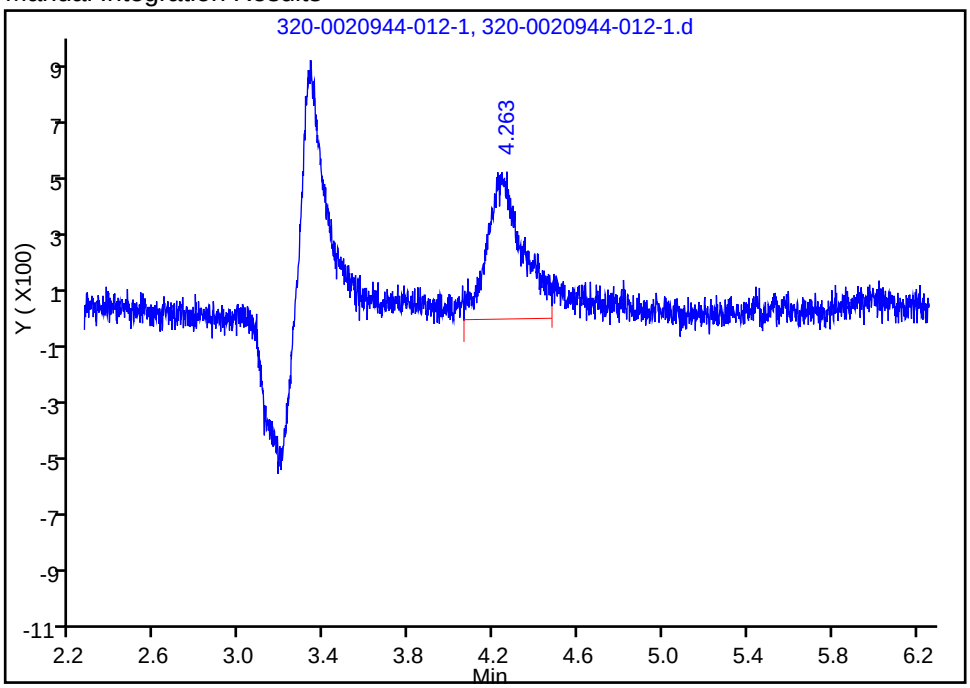
Processing Integration Results

RT: 4.24
Height: 442
Amount: 17.673402
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Height: 505
Amount: 20.192461
Amount Units: ng/ml



Reviewer: huangyun, 13-Apr-2015 10:36:13
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71582/3 Calibration Date: 04/20/2015 12:57

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-003-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	24.65		19.7	20.0	-1.4	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71582/3 Calibration Date: 04/20/2015 12:57

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-003-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.04	3.79	4.29

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-003-1.d				
Lims ID:	CCVL				
Client ID:					
Sample Type:	CCVL				
Inject. Date:	20-Apr-2015 12:57:00	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021160-003 Analysis				
Misc. Info.:	none PRIMER				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:	chrom-NGu Primary*sub1				
Method:	\\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	20-Apr-2015 13:40:18	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK001				

First Level Reviewer: huangyun Date: 20-Apr-2015 13:40:18

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.043	4.043	0.000	493H	20.0	19.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

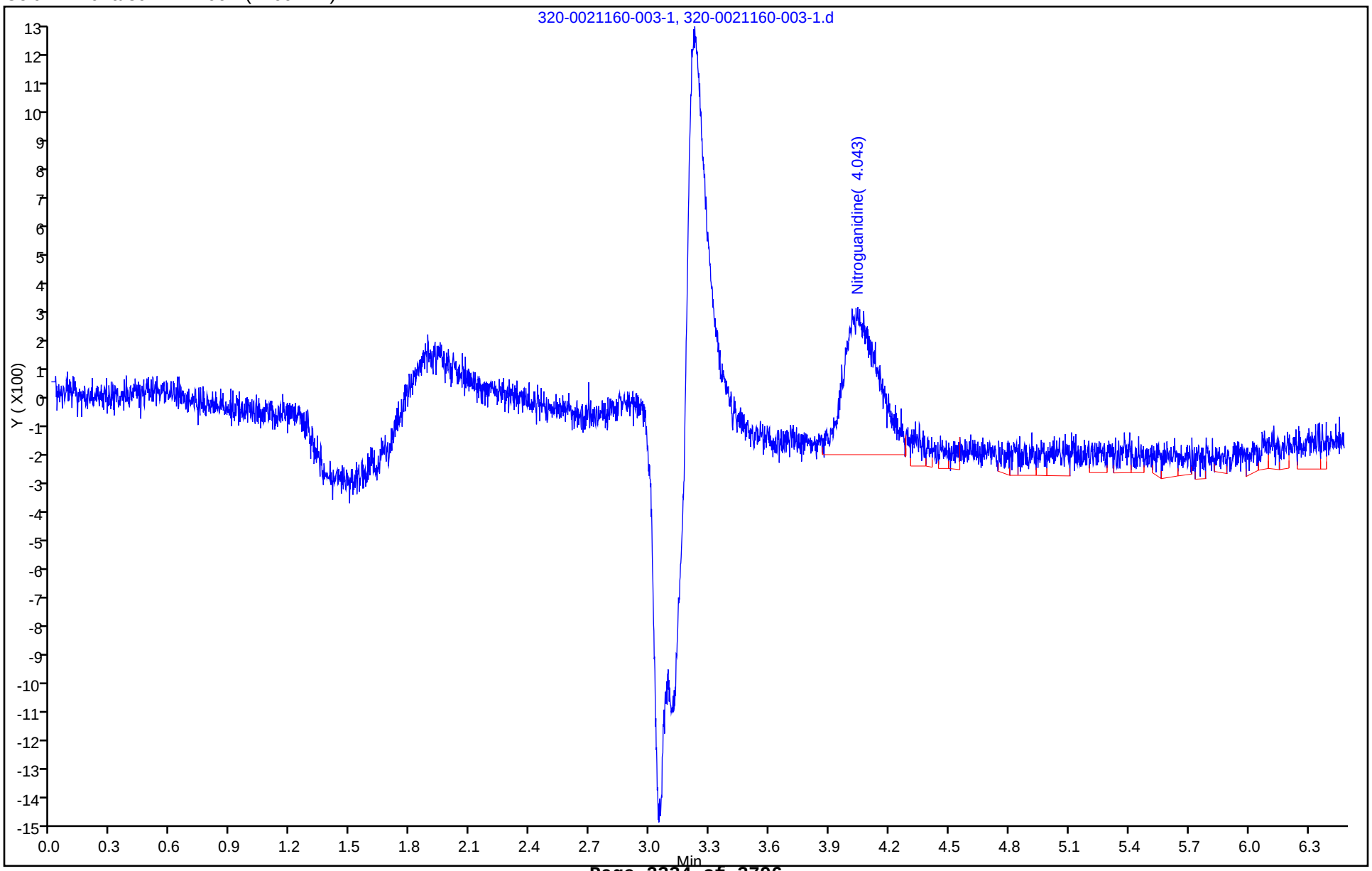
Report Date: 20-Apr-2015 13:40:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-003-1.d

Injection Date:	20-Apr-2015 12:57:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	3
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

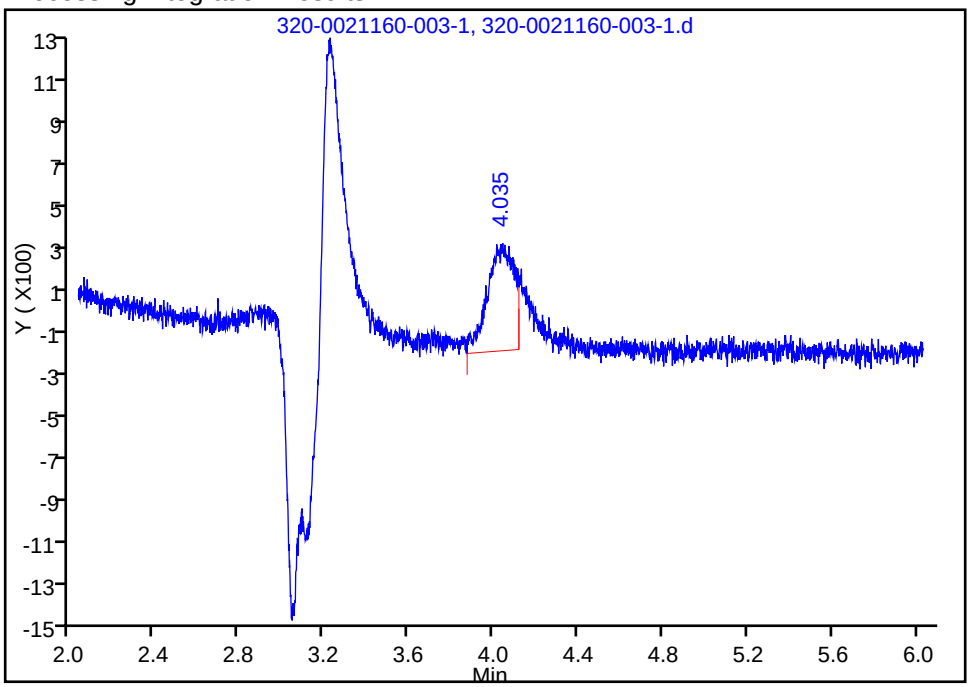
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-003-1.d
Injection Date: 20-Apr-2015 12:57:00 Instrument ID: PDA1
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

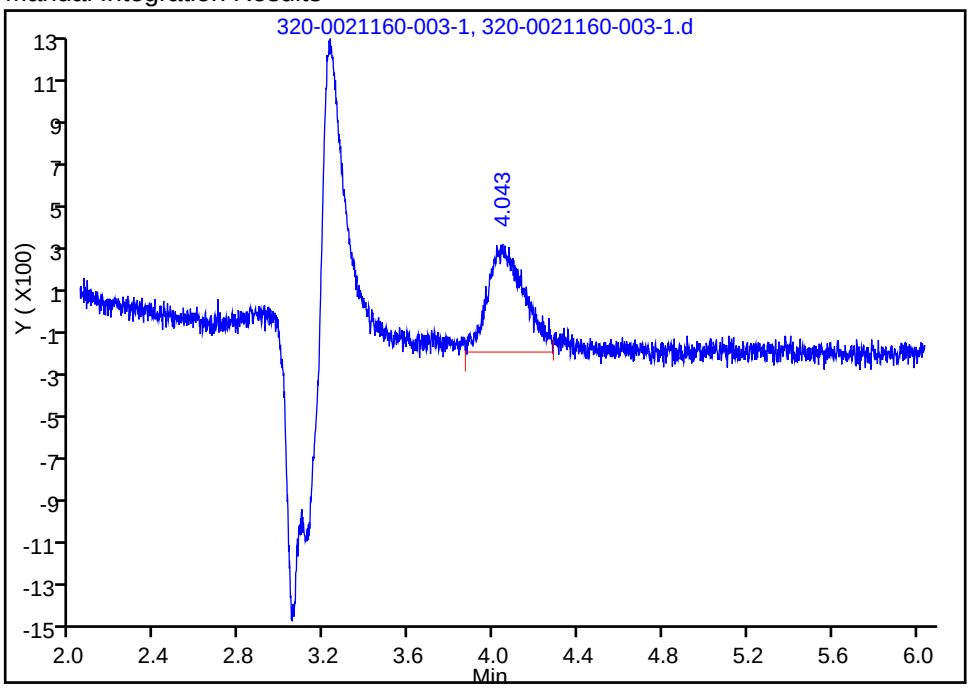
Processing Integration Results

RT: 4.04
Height: 487
Amount: 19.472730
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Height: 493
Amount: 19.712641
Amount Units: ng/ml



Reviewer: huangyun, 20-Apr-2015 13:40:18
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71582/14 Calibration Date: 04/20/2015 16:12

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-014-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	23.60		94.4	100	-5.6	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71582/14 Calibration Date: 04/20/2015 16:12

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-014-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	3.99	3.74	4.24

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-014-1.d
Lims ID: CCV 04
Client ID:
Sample Type: CCV
Inject. Date: 20-Apr-2015 16:12:00 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021160-014 Analysis
Misc. Info.: none PRIMER
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 20-Apr-2015 16:43:22 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK001

First Level Reviewer: huangyun Date: 20-Apr-2015 16:43:22

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
3.988	3.988	0.000	2360H	100.0	94.4	

Reagents:

HPNQL4_00009 Amount Added: 1.00 Units: mL

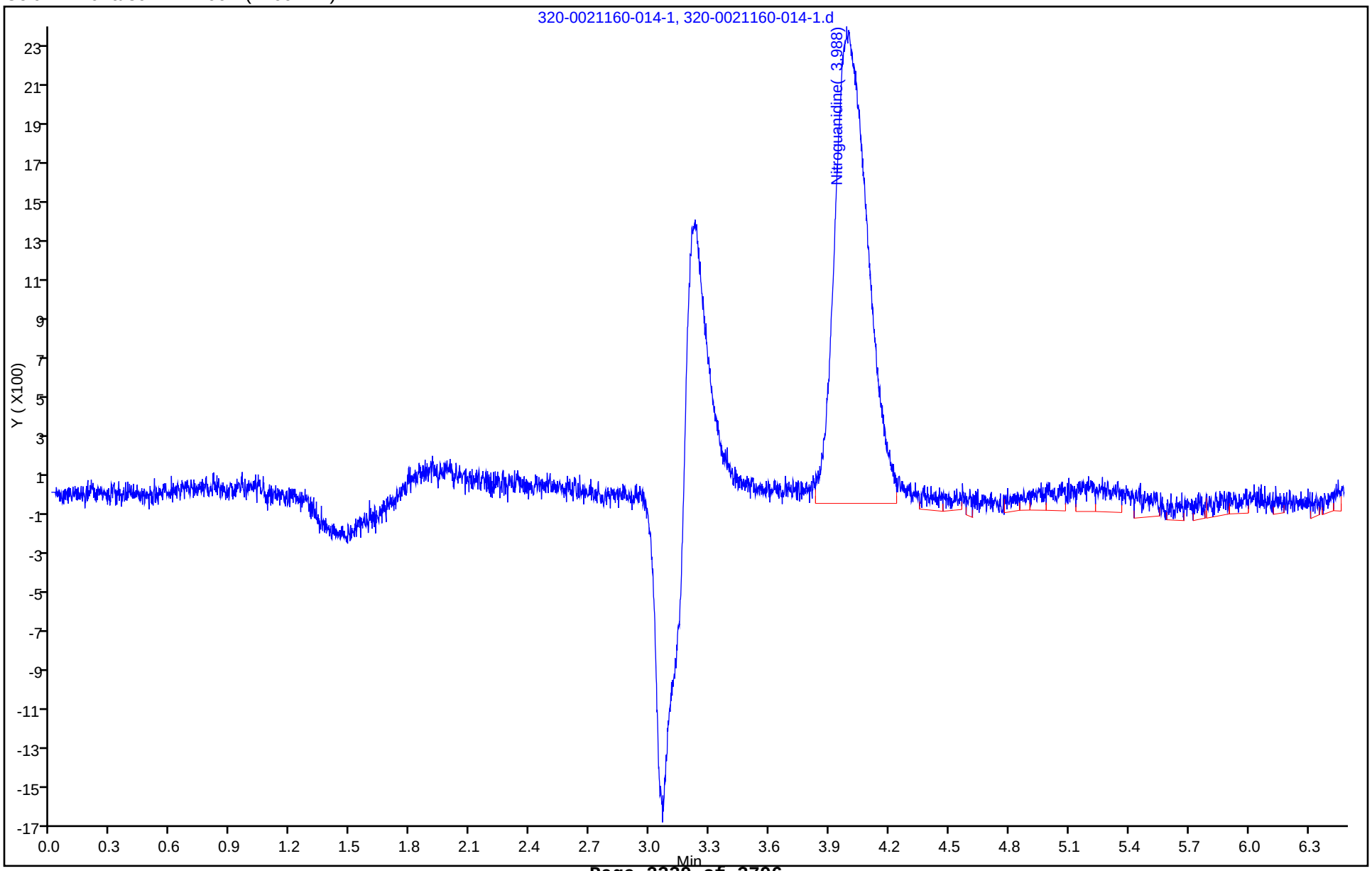
Report Date: 20-Apr-2015 16:43:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-014-1.d

Injection Date:	20-Apr-2015 16:12:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCV 04			Worklist Smp#:	14
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71582/20 Calibration Date: 04/20/2015 17:59

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-020-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	23.19		92.7	100	-7.3	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71582/20 Calibration Date: 04/20/2015 17:59

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-020-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	3.96	3.71	4.21

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-020-1.d
Lims ID: CCV 04
Client ID:
Sample Type: CCV
Inject. Date: 20-Apr-2015 17:59:00 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021160-020 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 20-Apr-2015 18:26:09 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK001

First Level Reviewer: huangyun Date: 20-Apr-2015 18:26:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
3.963	3.963	0.000	2319H	100.0	92.7	

Reagents:

HPNQL4_00009 Amount Added: 1.00 Units: mL

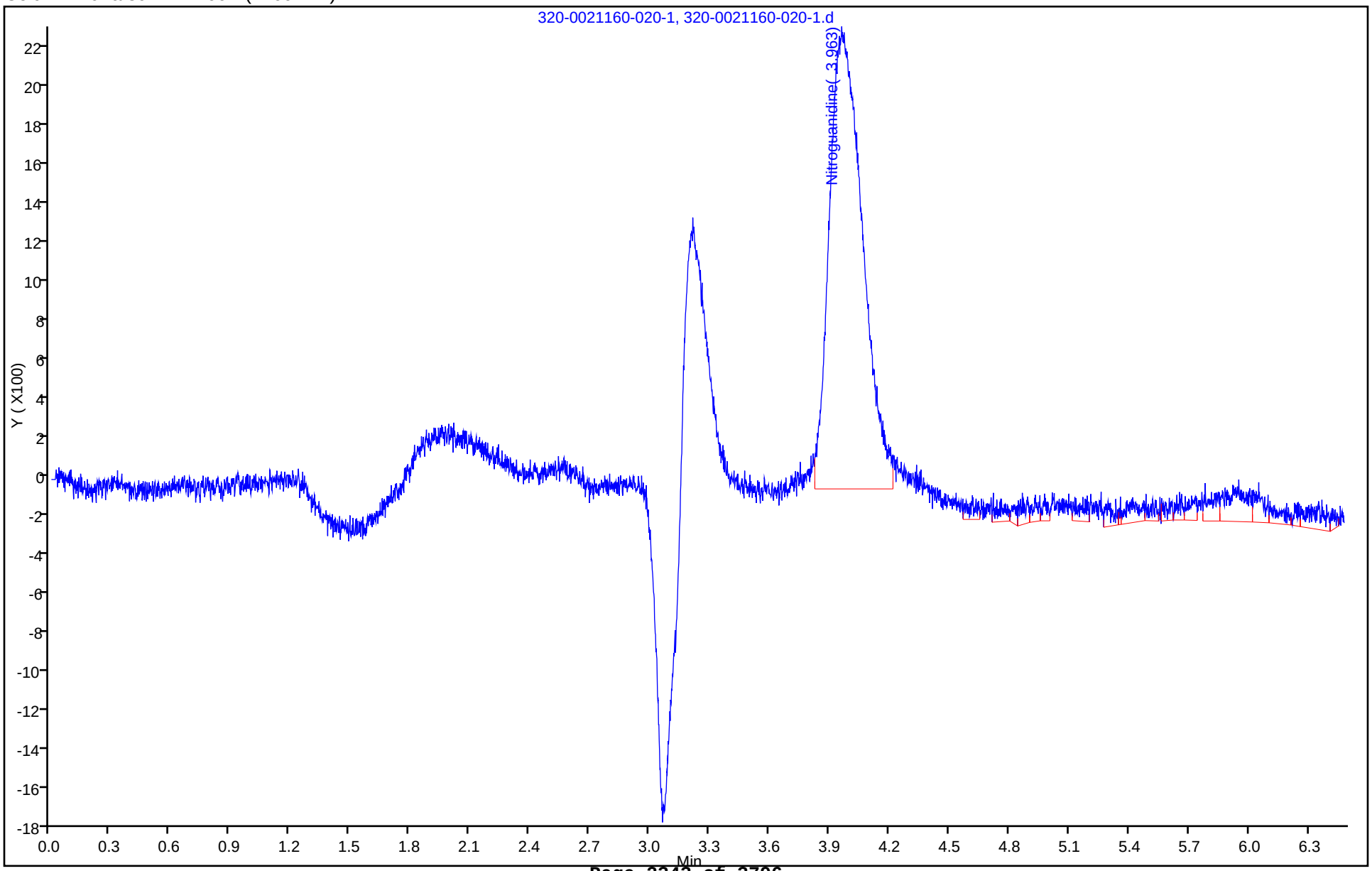
Report Date: 20-Apr-2015 18:26:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-020-1.d

Injection Date:	20-Apr-2015 17:59:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCV 04			Worklist Smp#:	20
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71582/21 Calibration Date: 04/20/2015 18:17

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-021-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	23.35		18.7	20.0	-6.6	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71582/21 Calibration Date: 04/20/2015 18:17

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021160-021-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	3.92	3.71	4.21

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-021-1.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 20-Apr-2015 18:17:00 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021160-021 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 20-Apr-2015 18:26:55 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK001

First Level Reviewer: huangyun Date: 20-Apr-2015 18:26:55

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
3.917	3.963	-0.046	467H	20.0	18.7	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

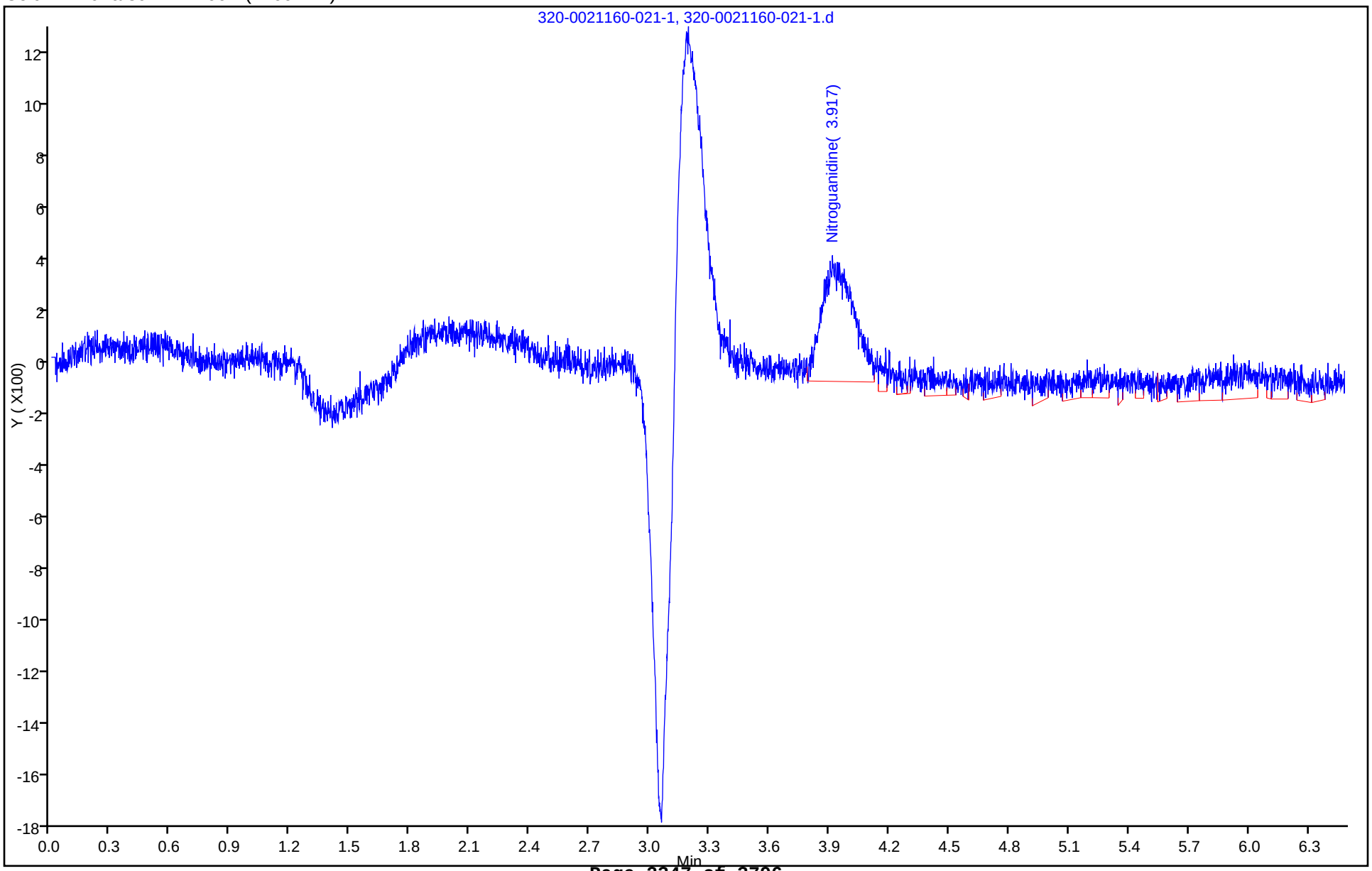
Report Date: 20-Apr-2015 18:26:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-021-1.d

Injection Date:	20-Apr-2015 18:17:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	21
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

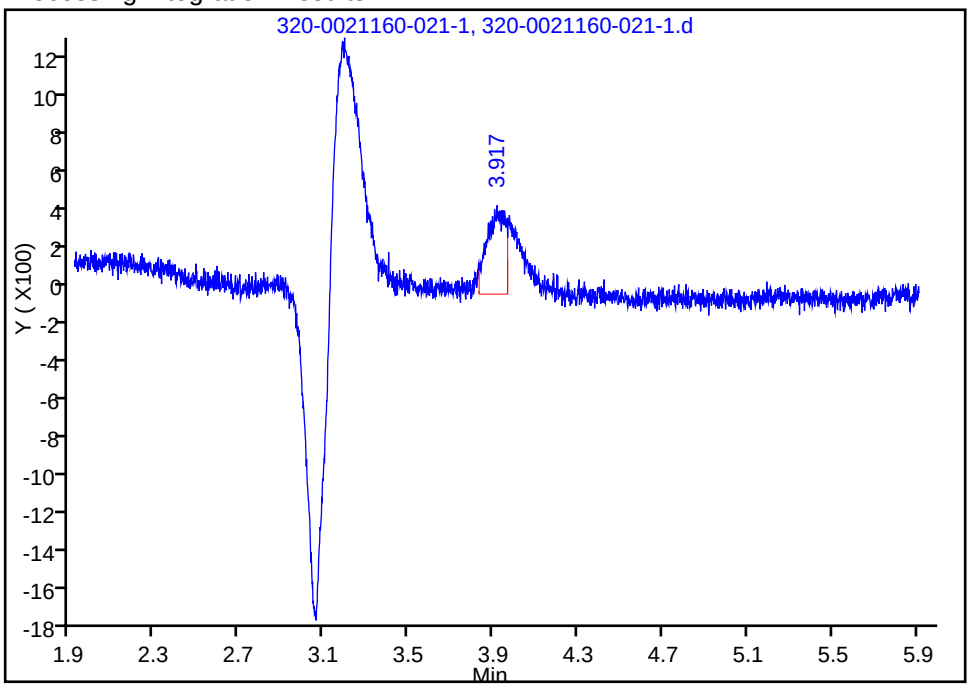
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-021-1.d
Injection Date: 20-Apr-2015 18:17:00 Instrument ID: PDA1
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

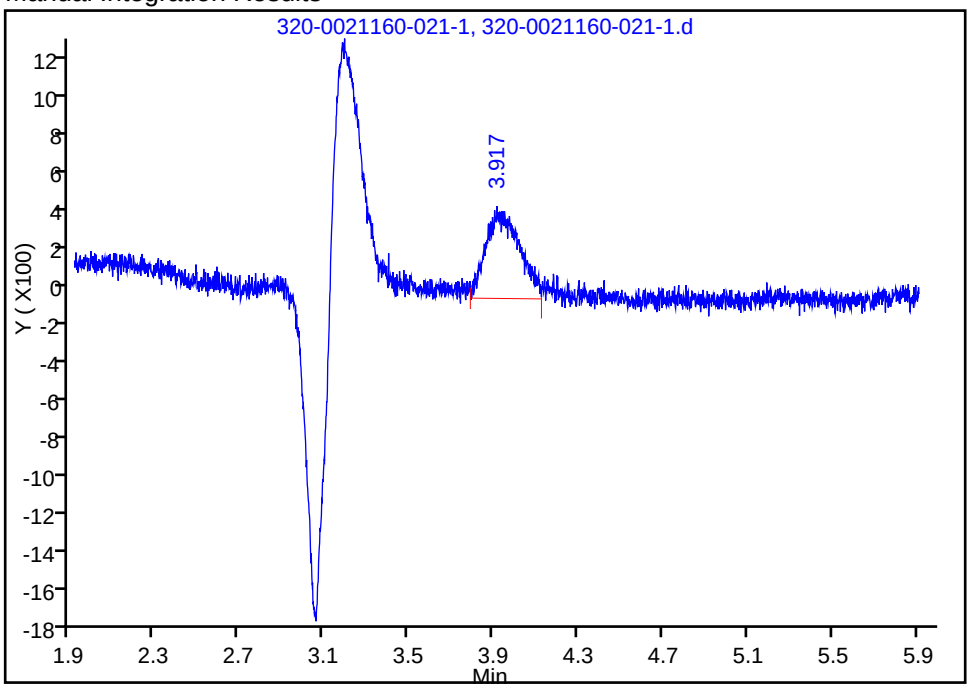
Processing Integration Results

RT: 3.92
Height: 450
Amount: 17.993283
Amount Units: ng/ml



Manual Integration Results

RT: 3.92
Height: 467
Amount: 18.673029
Amount Units: ng/ml



Reviewer: huangyun, 20-Apr-2015 18:26:55
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-71039/1-A

Matrix: Water Lab File ID: 320-0021160-015-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Filtration Date Extracted: 04/13/2015 19:24

Sample wt/vol: 10.00(mL) Date Analyzed: 04/20/2015 16:30

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 71582 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	6.0	U	20	6.0	2.4

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-015-1.d				
Lims ID:	MB 320-71039/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	20-Apr-2015 16:30:00	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021160-015 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	20-Apr-2015 16:43:22	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK001				
First Level Reviewer: huangyun		Date:	20-Apr-2015 17:16:50		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

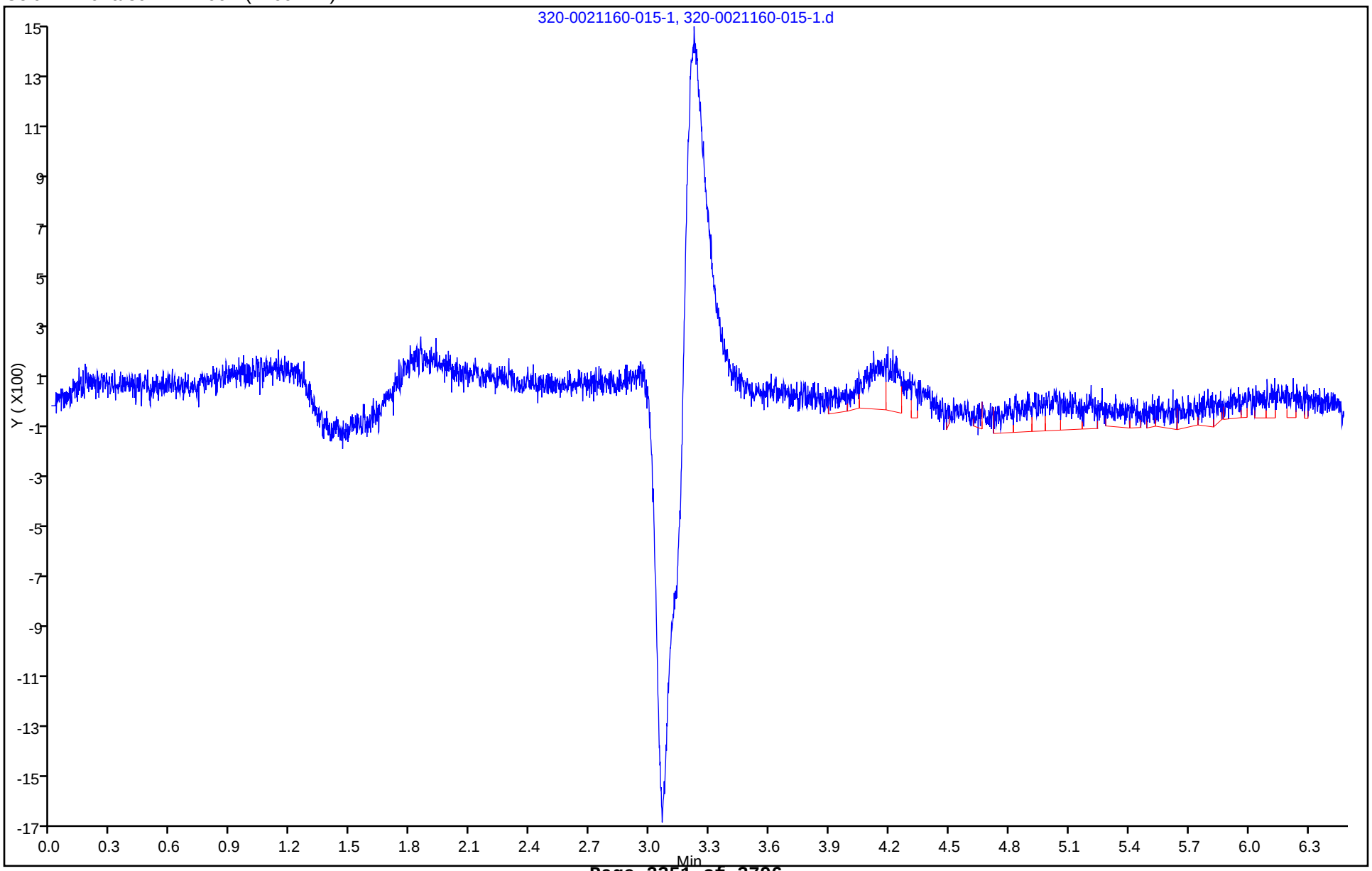
Report Date: 20-Apr-2015 17:16:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-015-1.d

Injection Date:	20-Apr-2015 16:30:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	MB 320-71039/1-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-71039/2-A

Matrix: Water Lab File ID: 320-0021160-016-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Filtration Date Extracted: 04/13/2015 19:24

Sample wt/vol: 10.00(mL) Date Analyzed: 04/20/2015 16:48

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 71582 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	195		20	6.0	2.4

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-016-1.d
Lims ID: LCS 320-71039/2-A
Client ID:
Sample Type: LCS
Inject. Date: 20-Apr-2015 16:48:00 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021160-016 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1

Method: \\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 20-Apr-2015 18:13:05 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK001

First Level Reviewer: huangyun Date: 20-Apr-2015 17:17:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
3.993	3.988	0.005	4874H	250.0	194.9	

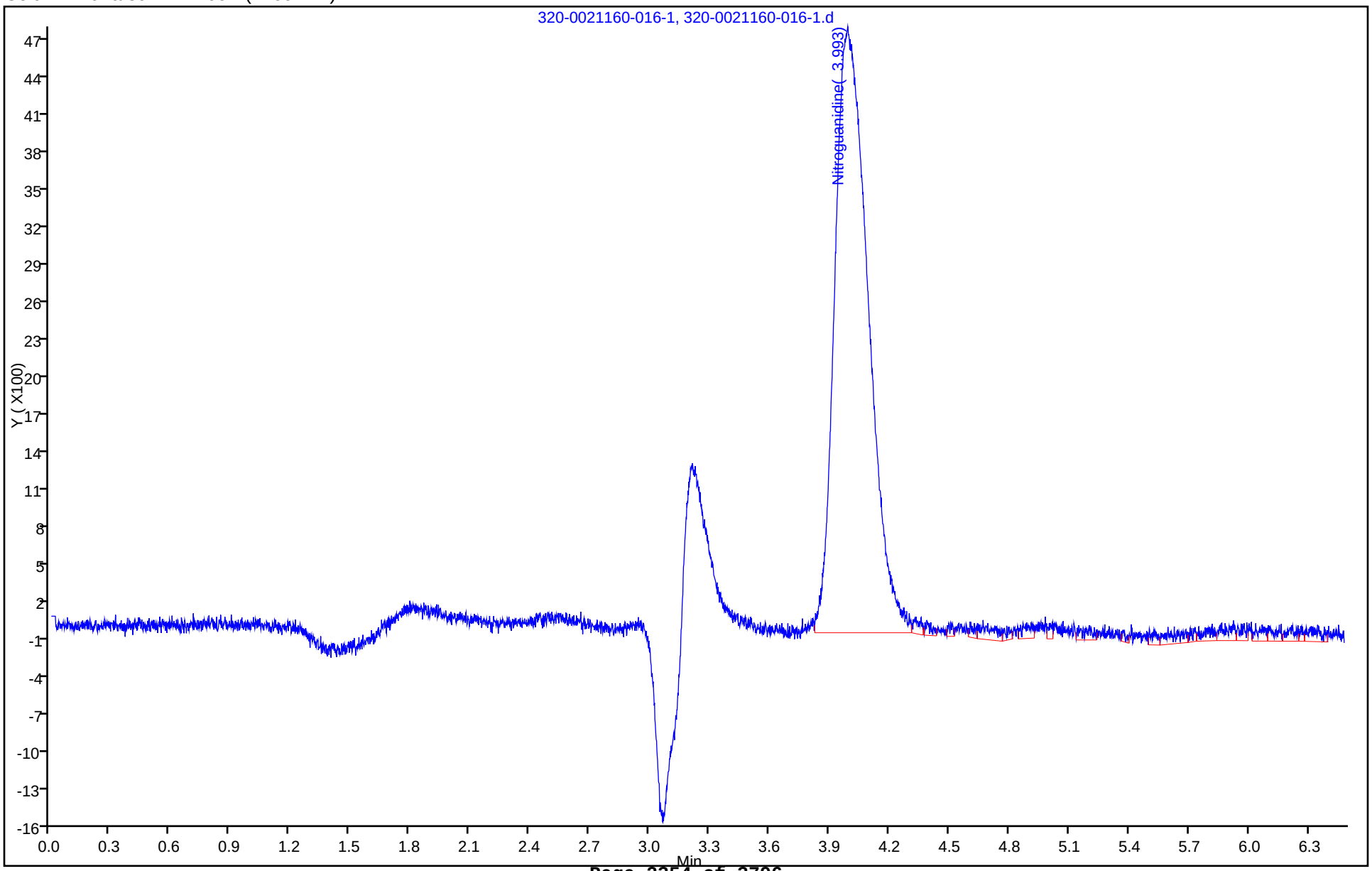
Report Date: 20-Apr-2015 17:17:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-016-1.d

Injection Date:	20-Apr-2015 16:48:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	LCS 320-71039/2-A			Worklist Smp#:	16
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW MS Lab Sample ID: 240-49236-3 MS

Matrix: Water Lab File ID: 320-0021160-018-1.d

Analysis Method: 8330 Modified Date Collected: 04/10/2015 08:45

Extraction Method: Filtration Date Extracted: 04/13/2015 19:24

Sample wt/vol: 10.00(mL) Date Analyzed: 04/20/2015 17:23

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 71582 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	206		20	6.0	2.4

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-018-1.d				
Lims ID:	240-49236-E-3-B MS				
Client ID:					
Sample Type:	MS				
Inject. Date:	20-Apr-2015 17:23:00	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021160-018 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	20-Apr-2015 18:31:02	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK001				
First Level Reviewer: huangyun		Date:	20-Apr-2015 18:00:34		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.000	3.988	0.012	5141H	250.0	205.6	

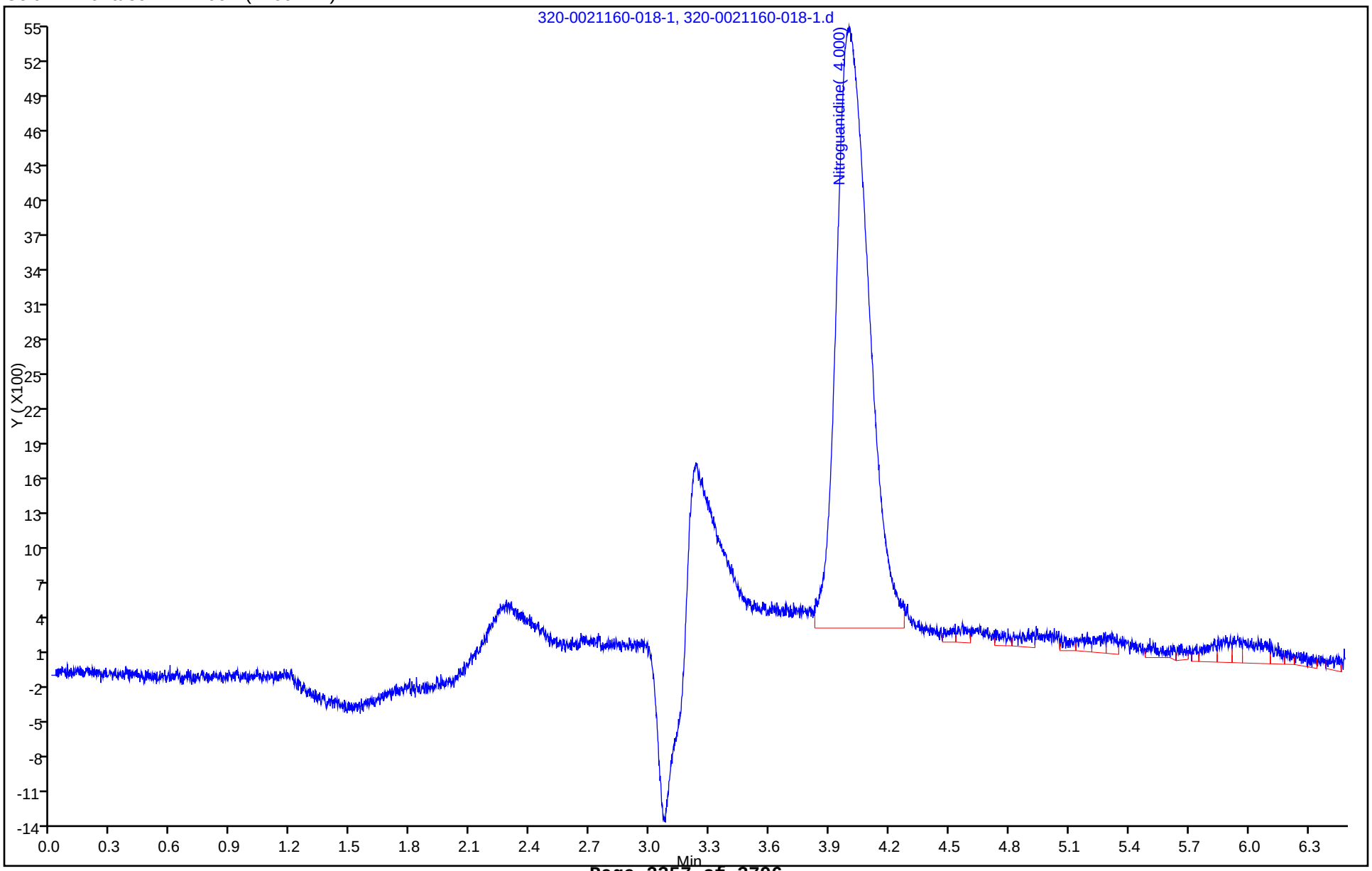
Report Date: 20-Apr-2015 18:00:34 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-018-1.d

Injection Date:	20-Apr-2015 17:23:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	240-49236-E-3-B MS			Worklist Smp#:	18
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW MSD Lab Sample ID: 240-49236-3 MSD

Matrix: Water Lab File ID: 320-0021160-019-1.d

Analysis Method: 8330 Modified Date Collected: 04/10/2015 08:45

Extraction Method: Filtration Date Extracted: 04/13/2015 19:24

Sample wt/vol: 10.00(mL) Date Analyzed: 04/20/2015 17:41

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 71582 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	206		20	6.0	2.4

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-019-1.d				
Lims ID:	240-49236-E-3-C MSD				
Client ID:					
Sample Type:	MSD				
Inject. Date:	20-Apr-2015 17:41:00	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021160-019 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150420-21160.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	20-Apr-2015 18:49:03	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK001				
First Level Reviewer: huangyun		Date:	20-Apr-2015 18:07:19		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
3.963	3.988	-0.025	5159H	250.0	206.3	

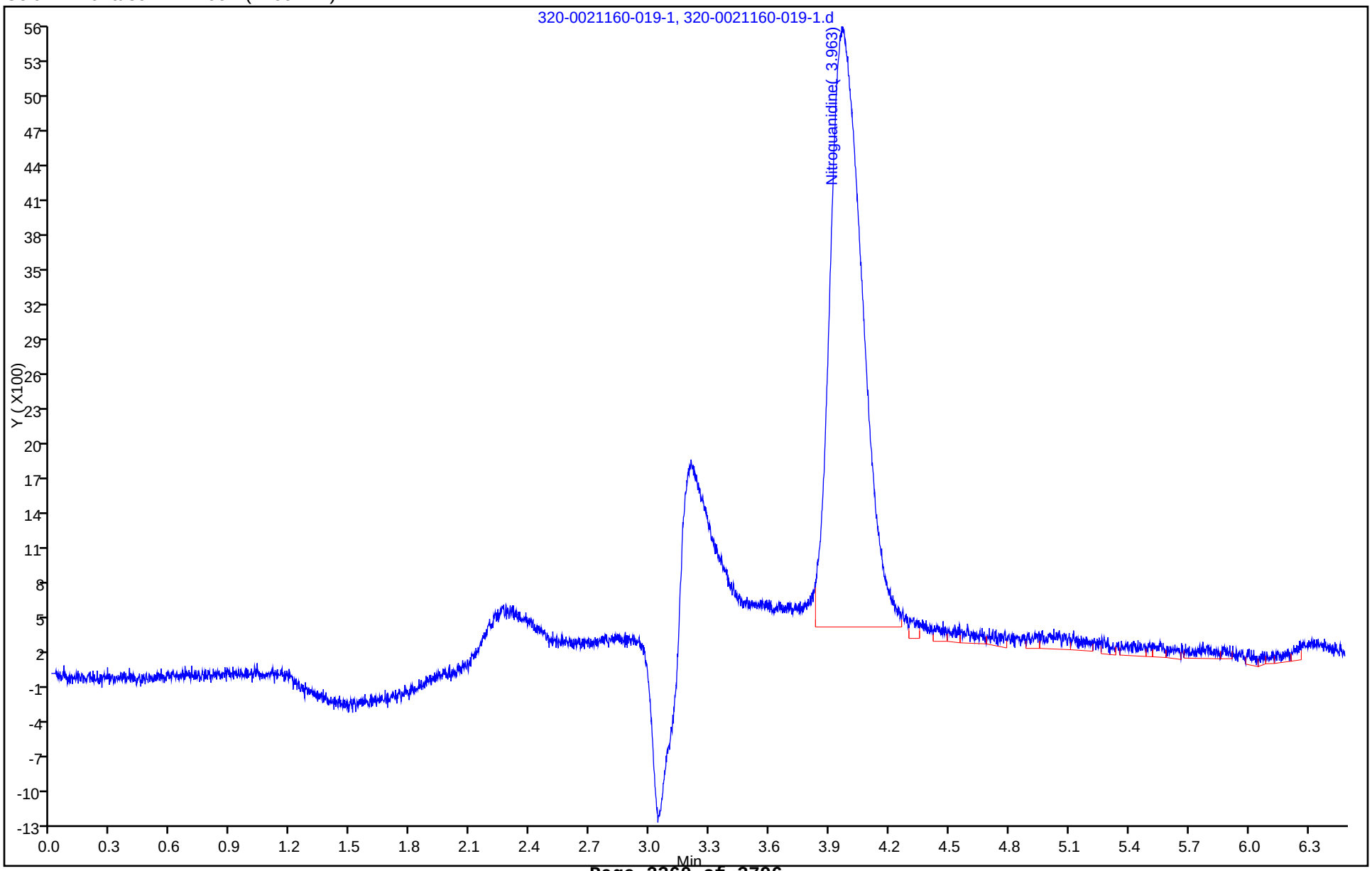
Report Date: 20-Apr-2015 18:07:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150420-21160.b\320-0021160-019-1.d

Injection Date:	20-Apr-2015 17:41:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	240-49236-E-3-C MSD			Worklist Smp#:	19
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/10/2015 17:35

Analysis Batch Number: 70867 End Date: 04/10/2015 19:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD03 320-70867/5 IC		04/10/2015 17:35	1	320-0020944-005 -1.d	Luna NH2 4.6(mm)
STD04 320-70867/6 IC		04/10/2015 17:53	1	320-0020944-006 -1.d	Luna NH2 4.6(mm)
STD05 320-70867/7 IC		04/10/2015 18:11	1	320-0020944-007 -1.d	Luna NH2 4.6(mm)
STD06 320-70867/8 IC		04/10/2015 18:29	1	320-0020944-008 -1.d	Luna NH2 4.6(mm)
STD07 320-70867/9 IC		04/10/2015 18:46	1	320-0020944-009 -1.d	Luna NH2 4.6(mm)
STD02 320-70867/43 IC		04/10/2015 19:22	1	STD02-1.d	Luna NH2 4.6(mm)
ICV 320-70867/11		04/10/2015 19:40	1	320-0020944-011 -1.d	Luna NH2 4.6(mm)
LODV 320-70867/12		04/10/2015 19:57	1	320-0020944-012 -1.d	Luna NH2 4.6(mm)

8330 Modified

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/20/2015 12:57

Analysis Batch Number: 71582 End Date: 04/20/2015 18:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 320-71582/3		04/20/2015 12:57	1	320-0021160-003 -1.d	Luna NH2 4.6(mm)
CCV 320-71582/4 CCVRT		04/20/2015 13:15	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 13:50	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 14:08	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 14:26	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 14:43	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 15:01	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 15:19	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 15:37	1		Luna NH2 4.6(mm)
ZZZZZ		04/20/2015 15:54	1		Luna NH2 4.6(mm)
CCV 320-71582/14		04/20/2015 16:12	1	320-0021160-014 -1.d	Luna NH2 4.6(mm)
MB 320-71039/1-A		04/20/2015 16:30	1	320-0021160-015 -1.d	Luna NH2 4.6(mm)
LCS 320-71039/2-A		04/20/2015 16:48	1	320-0021160-016 -1.d	Luna NH2 4.6(mm)
240-49236-3	079SB-0385-0001-SW	04/20/2015 17:05	1	320-0021160-017 -1.d	Luna NH2 4.6(mm)
240-49236-3 MS	079SB-0385-0001-SW MS	04/20/2015 17:23	1	320-0021160-018 -1.d	Luna NH2 4.6(mm)
240-49236-3 MSD	079SB-0385-0001-SW MSD	04/20/2015 17:41	1	320-0021160-019 -1.d	Luna NH2 4.6(mm)
CCV 320-71582/20		04/20/2015 17:59	1	320-0021160-020 -1.d	Luna NH2 4.6(mm)
CCVL 320-71582/21		04/20/2015 18:17	1	320-0021160-021 -1.d	Luna NH2 4.6(mm)

8330 Modified

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Batch Number: 71039 Batch Start Date: 04/13/15 19:24 Batch Analyst: Reed, Jonathan E

Batch Method: Filtration Batch End Date: 04/13/15 20:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNQSP 00015			
MB 320-71039/1		Filtration, 8330 Modified		10.00 mL	10.00 mL				
LCS 320-71039/2		Filtration, 8330 Modified		10.00 mL	10.00 mL	50 uL			
240-49236-E-3	079SB-0385-0001-SW	Filtration, 8330 Modified	T	10.00 mL	10.00 mL				
240-49236-E-3 MS	079SB-0385-0001-SW	Filtration, 8330 Modified	T	10.00 mL	10.00 mL	50 uL			
240-49236-E-3 MSD	079SB-0385-0001-SW	Filtration, 8330 Modified	T	10.00 mL	10.00 mL	50 uL			

Batch Notes	
Batch Comment	PIPETTE: EC15219
Filter Lot #	R4NA21509

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

HPLC/LCMS Data Review Checklist

Job Number(s): 240-49085 & 49236 .2 Work List ID(s): 21160 (PDA1)

Extraction Batch: 71037, 71039 Analysis Batch(es): 71582 (Nyx)

Delivery Rank 4 Due Date: 4/24, 4/25/2015

A. Calibration/Instrument Run QC	1st Level	2nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch# 70867	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• $RF_{average}$ criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓		✓
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).	✓		✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓		✓
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	✓	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.			✓
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?			✓
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all non-conformances documented/attached? NCM#			✓
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

**Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.*

1st Level (Analyst): YPH Date: 4/20/2015

2nd Level Reviewer: V.N.Hart Date: 4/21/15

TestAmerica
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Sacramento

GC/HPLC ICAL Review Checklist

Instrument ID: PDA1 Method: Ngu Primary

Work List ID: 20944 Analysis Batch(es): 70867

Analytes Included in this ICAL: Nitroguanidine (ICAL 4/10/2015)

ICAL Review	1st Level	2nd Level	N/A
1. Method locked in Chrom.	✓	✓	
2. ICAL is set as most recent method in Chrom.	✓	✓	
3. PEM meets measurements for 8081			✓
4. Alkane Marker included for 8015 TPH and RT windows set correctly			✓
5. Standards used in ICAL are correct	✓	✓	
6. No analytes have saturated peaks	✓	✓	
7. All peaks correctly identified and within retention time windows	✓	✓	
8. Manual integrations reviewed and appropriate	✓	✓	
9. All analytes meet %RSD or linear regression requirements	✓	✓	
10. Any levels dropped are reviewed and appropriate			✓
11. ICV meets requirements and is run after the ICAL	✓	✓	
12. RFs are calculated correctly. Perform Manual calculation	✓	✓	
13. ICAL meets requirements stated in SOP	✓	✓	
13. Chromatograms are uploaded/reviewed in ?TALs	✓	✓	
14. ICAL is locked in TALs.		✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3,V4, V5	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
8330B DoD5	✓		RSD ≤15%, r≥ 0.99, ICV≤20%

1st Level Reviewer: YPH Date: 4/13/2015.

2nd Level Reviewer: V. Pikart Date: 4/14/15

Comments:

TestAmerica Laboratories
Worklist Report

Worklist Name: Ngu 04-20-2015 Worklist Number: 21160
Instrument Name: PDA1 Chrom Method: NGu Primary
Injection Volume: 50.00 Units: ul
Analysis Type: Semi VOA
Batch Directory: \\SACChrom\ChromData\PDA1\20150420-21160.b
Upload Directory: \\CORPTALSAPP02\320-WS-RawData\Organics\LC\PDA1

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021160-001	# 1 Primer		Client		sv	1.000000	mL	1.000000
320-0021160-002	# 2 Primer		Client		sv	1.000000	mL	1.000000
320-0021160-003	# 3 CCVL	HPNQL2_00008	CCVL		sv	1.000000	mL	1.000000
320-0021160-004	# 4 CCV 05	HPNQL5_00008	CCVRT		sv	1.000000	mL	1.000000
320-0021160-005	# 5 QC HPNQSP_18	HPNQSP_00018	QC		sv	1.000000	mL	1.000000
320-0021160-006	# 6 MB 320-71037/1-A		MB		sv	1.000000	mL	1.000000
320-0021160-007	# 7 LCS 320-71037/2-A		LCS		sv	1.000000	mL	1.000000
320-0021160-008	# 8 240-49085-E-8-D		Client		sv	1.000000	mL	1.000000
320-0021160-009	# 9 240-49085-E-8-E MS		MS		sv	1.000000	mL	1.000000
320-0021160-010	#10 240-49085-E-8-F MSD		MSD		sv	1.000000	mL	1.000000
320-0021160-011	#11 240-49085-E-15-B		Client		sv	1.000000	mL	1.000000
320-0021160-012	#12 240-49085-E-22-B		Client		sv	1.000000	mL	1.000000
320-0021160-013	#13 240-49085-E-34-B		Client		sv	1.000000	mL	1.000000
320-0021160-014	#14 CCV 04	HPNQL4_00009	CCV		sv	1.000000	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021160-015	#15 MB 320-71039/1-A		MB		sv	1.000000	mL	1.000000
320-0021160-016	#16 LCS 320-71039/2-A		LCS		sv	1.000000	mL	1.000000
320-0021160-017	#17 240-49236-E-3-A		Client		sv	1.000000	mL	1.000000
320-0021160-018	#18 240-49236-E-3-B MS		MS		sv	1.000000	mL	1.000000
320-0021160-019	#19 240-49236-E-3-C MSD		MSD		sv	1.000000	mL	1.000000
320-0021160-020	#20 CCV 04	HPNQL4_00009	CCV		sv	1.000000	mL	1.000000
320-0021160-021	#21 CCVL	HPNQL2_00008	CCVL		sv	1.000000	mL	1.000000

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

DU

Batch Number: 320-71037

Method Code: 320-8330_P_2g-320

Analyst: Reed, Jonathan E

Batch Open: 4/13/2015 5:23:29PM

Batch End: 4-14-15 13:10

Sieve and Ultrasonic Water Bath Extraction (Explosives)

	Input Sample Lab ID (Analytical Method)	SDG	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~320-71037/1 N/A	N/A	2.00 g	10.00 mL	N/A	N/A	N/A		MB 320-71037/1-A
2	LCS~320-71037/2 N/A	N/A	2.00 g	10.00 mL	N/A	N/A	N/A		LCS 320-71037/2-A
3	240-49085-E-8 (8330_NGu)	N/A	2.00 g	10.00 mL	4/24/15	12_Days	4		240-49085-E-8-D
4	240-49085-E-8~MS (8330_NGu)	N/A	2.02 g	10.00 mL	4/24/15	12_Days	4		240-49085-E-8-E MS
5	240-49085-E-8~MSD (8330_NGu)	N/A	2.01 g	10.00 mL	4/24/15	12_Days	4		240-49085-E-8-F MSD
6	240-49085-E-15 (8330_NGu)	N/A	2.01 g	10.00 mL	4/24/15	12_Days	4		240-49085-E-15-B
7	240-49085-E-22 (8330_NGu)	N/A	2.01 g	10.00 mL	4/24/15	12_Days	4		240-49085-E-22-B
8	240-49085-E-34 (8330_NGu)	N/A	2.00 g	10.00 mL	4/24/15	12_Days	4		240-49085-E-34-B

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71037

Analyst: Reed, Jonathan E

Batch Open: 4/13/2015 5:23:29PM

Method Code: 320-8330_P_2g-320

Batch End:

Batch Notes

Balance ID	QA-070
Blank Sand Lot #	FISHER:142675
Solvent Name	0.3g/LCaCL2 SOLN.
Solvent Lot #	397482
Filter Type	PTFE 0.45um 25mm
Filter Lot #	R4NA21509
Pipette ID	EC15219
Person's name who witnessed reagent drop	H36 4-14-15 ~~JER~~ STL
Pipette ID for Solvent	11-Z0278
Sonication Start Date	4/13/15
Sonication Start Time	18:00
Sonication End Date	4/14/15
Sonication Stop Time	12:00
Minimum Temperature	14°C
Maximum Temperature	23°
Minumum Temperature	NA
Calcium Chloride Reagent ID	397482
Date Sample was Dried	4/10/.15
Date Sample was Ground	4/13/15
Date Dilution Performed	NA
Analytst performing Dilution	NA

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Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71037 Analyst: Reed, Jonathan E Batch Open: 4/13/2015 5:23:29PM

Method Code: 320-8330_P_2g-320 Batch End:

Date of Clean up	4/14/15
Analyst performed Clean Up	HJA
SOP Number	WS-LC-0010
Batch Comment	NA

Comments

240-49085-E-8	Method Comments:
240-49085-E-8~MS	Method Comments:
240-49085-E-8~MSD	Method Comments:
240-49085-E-15	Method Comments:
240-49085-E-22	Method Comments:
240-49085-E-34	Method Comments:

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Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71037

Method Code: 320-8330_P_2g-320

Analyst: Reed, Jonathan E

Batch Open: 4/13/2015 5:23:29PM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 320-71037/2	HPNQSP_00015	40.00 uL	10.00 mL	4/13/15	STL 4/13/15
240-49085-E-8 MS	HPNQSP_00015	40.00 uL	10.00 mL	↓	↓
240-49085-E-8 MSD	HPNQSP_00015	40.00 uL	10.00 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
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Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-71037 Test: NO-S

Earliest Holding Time: 4-21-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted		✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and Cl Check)	✓	✓
The pH is transcribed correctly in TALS	NA	NA
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	**1st Level Reviewer**	**2nd Level Reviewer**
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: HJ A Date: 4-14-15

2nd Level Reviewer: SNE Date: 4/15/15

Comments:

Filtration_47D Analysis Sheet

(To Accompany Samples to Instruments)

DV

Batch Number: 320-71039

Analyst: Reed, Jonathan E

Batch Open: 4/13/2015 7:24:06PM

Batch End: 4/13/2015 8:40:00PM

Sample Filtration

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~320-71039/1 N/A	N/A		10.00 mL	10.00 mL	N/A	N/A	N/A		MB 320-71039/1-A
2	LCS~320-71039/2 N/A	N/A		10.00 mL	10.00 mL	N/A	N/A	N/A		LCS 320-71039/2-A
3	240-49236-E-3 (8330_NGu)	N/A	Water	10.00 mL	10.00 mL	4/28/15	12_Days	4		240-49236-E-3-A
4	240-49236-E-3~MS (8330_NGu)	N/A	Water	10.00 mL	10.00 mL	4/28/15	12_Days	4		240-49236-E-3-B MS
5	240-49236-E-3~MSD (8330_NGu)	N/A	Water	10.00 mL	10.00 mL	4/28/15	12_Days	4		240-49236-E-3-C MSD

Filtration_47D Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71039

Analyst: Reed, Jonathan E

Batch Open: 4/13/2015 7:24:06PM

Batch End: 4/13/2015 8:40:00PM

Batch Notes

Filter Lot # R4NA21509

Batch Comment PIPETTE: EC15219

Comments

240-49236-E-3

Method Comments: Q4 + run bracketing MRLs

240-49236-E-3~MS

Method Comments: Q4 + run bracketing MRLs

240-49236-E-3~MSI

Method Comments: Q4 + run bracketing MRLs

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Filtration_47D Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71039

Analyst: Reed, Jonathan E

Batch Open: 4/13/2015 7:24:06PM

Batch End: 4/13/15 8:40 PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 320-71039/2	HPNQSP_00015	50.00 uL	10.00 mL	4/13/15	SMS
240-49236-E-3 MS	HPNQSP_00015	50.00 uL	10.00 mL	↓	SMS
240-49236-E-3 MSD	HPNQSP_00015	50.00 uL	10.00 mL	↓	SMS

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Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
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Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 71039 Test: NO3-L

Earliest Holding Time: 5/27/15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and Cl Check)	✓	✓
The pH is transcribed correctly in TALS	NA	NA
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	**1st Level Reviewer**	**2nd Level Reviewer**
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: _____ Date: 4/13/15

2nd Level Reviewer: HJA Date: 4-14-15

Comments: _____

Method 8330B

Nitroaromatics and Nitramines (HPLC) by Method 8330B

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi C18 ID: 4.6 (mm) GC Column (2): Zorbax CN 4.6 (mm)

Client Sample ID	Lab Sample ID	DNT1 #	DNT2 #
079SB-0385-0001-SW	240-49236-3	91	
079SB-0385-0001-SW	240-49236-3		95
	MB 320-70962/1-A	92	
	LCS 320-70962/2-A	95	

	QC LIMITS
DNT = 3,4-Dinitrotoluene	79-111

Column to be used to flag recovery values

FORM II 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water Level: Low Lab File ID: O000011.D

Lab ID: LCS 320-70962/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	1.00	1.06	106	74-120	
1,3-Dinitrobenzene	1.00	1.07	107	72-123	
2,4,6-Trinitrotoluene	1.00	1.03	103	69-111	
2,4-Dinitrotoluene	1.00	1.02	102	70-119	
2,6-Dinitrotoluene	1.00	1.02	102	71-119	
2-Amino-4,6-dinitrotoluene	1.00	1.03	103	77-123	
2-Nitrotoluene	1.00	0.985	98	64-120	
3-Nitrotoluene	1.00	0.991	99	67-114	
4-Nitrotoluene	1.00	0.998	100	67-115	
4-Amino-2,6-dinitrotoluene	1.00	0.990	99	68-113	
HMX	1.00	1.05	105	67-115	
RDX	1.00	1.09	109	68-122	
Nitrobenzene	1.00	1.05	105	69-119	
Tetryl	1.00	1.03	103	66-105	
Nitroglycerin	5.00	5.38	108	85-115	
PETN	5.00	4.90	98	84-117	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: MB 320-70962/1-A

Matrix: Water Date Extracted: 04/13/2015 09:25

Lab File ID:(1) O000010.D Lab File ID:(2)

Date Analyzed:(1) 04/15/2015 17:15 Date Analyzed:(2)

Instrument ID:(1) LC10 Instrument ID:(2) LC9

GC Column:(1) Synergi C18 ID: 4.6(mm) GC Column:(2) Zorbax CN ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 320-70962/2-A	04/15/2015 17:59	
079SB-0385-0001-SW	240-49236-3	04/15/2015 20:09	04/24/2015 02:59

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 320-71173/4 Date Analyzed: 04/15/2015 12:54

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm)

Lab File ID (Standard): O000004.D Heated Purge: (Y/N) N

Calibration ID: 12193

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				16.47		
UPPER LIMIT				16.72		
LOWER LIMIT				16.22		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-71173/4 CCVRT		04/15/2015 12:54	O000004.D	16.47		
MB 320-70962/1-A		04/15/2015 17:15	O000010.D	16.49		
LCS 320-70962/2-A		04/15/2015 17:59	O000011.D	16.47		
240-49236-3	079SB-0385-0001-SW	04/15/2015 20:09	O000014.D	16.49		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 320-71996/4 Date Analyzed: 04/23/2015 19:12

Instrument ID: LC9 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): W000004.D Heated Purge: (Y/N) N

Calibration ID: 11278

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				36.84		
UPPER LIMIT				37.09		
LOWER LIMIT				36.59		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-71996/4 CCVRT		04/23/2015 19:12	W000004.D	36.84		
240-49236-3	079SB-0385-0001-SW	04/24/2015 02:59	W000011.D	36.64		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Sample No.: CCV 320-71996/12 Date Analyzed: 04/24/2015 04:05

Instrument ID: LC9 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): W000012.D Heated Purge: (Y/N) N

Calibration ID: 11278

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT		
				RT #		
CONTINUING CALIBRATION SURROGATE				36.56		
UPPER LIMIT				36.81		
LOWER LIMIT				36.31		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-71996/12 CCVRT		04/24/2015 04:05	W000012.D	36.56		
CCVL 320-71996/13		04/24/2015 05:12	W000013.D	36.59		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW | Lab Sample ID: 240-49236-3

Matrix: Water | Lab File ID: O000014.D

Analysis Method: 8330B | Date Collected: 04/10/2015 08:45

Extraction Method: 8330-Prep | Date Extracted: 04/13/2015 09:25

Sample wt/vol: 939.3(mL) | Date Analyzed: 04/15/2015 20:09

Con. Extract Vol.: 20(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 71173 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.053	U	0.11	0.053	0.033
99-65-0	1,3-Dinitrobenzene	0.11	U	0.11	0.11	0.053
118-96-7	2,4,6-Trinitrotoluene	0.11	U J	0.11	0.11	0.053
121-14-2	2,4-Dinitrotoluene	0.11	U	0.11	0.11	0.053
606-20-2	2,6-Dinitrotoluene	0.11	U	0.11	0.11	0.053
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U	0.21	0.11	0.016
88-72-2	2-Nitrotoluene	0.11	U	0.53	0.11	0.094
99-08-1	3-Nitrotoluene	0.11	U	0.53	0.11	0.061
99-99-0	4-Nitrotoluene	0.11	U	0.53	0.11	0.094
19406-51-0	4-Amino-2,6-dinitrotoluene	0.11	U	0.11	0.11	0.053
2691-41-0	HMX	0.053	U	0.11	0.053	0.038
121-82-4	RDX	0.053	U	0.11	0.053	0.038
98-95-3	Nitrobenzene	0.11	U	0.11	0.11	0.053
479-45-8	Tetryl	0.11	U	0.11	0.11	0.053
55-63-0	Nitroglycerin	0.53	U	0.69	0.53	0.35
78-11-5	PETN	0.53	U	0.69	0.53	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	91		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20150415-21039.b\O000014.D				
Lims ID:	240-49236-G-3-A	Lab Sample ID:	320-49236-3		
Client ID:	079SB-0385-0001-SW				
Sample Type:	Client				
Inject. Date:	15-Apr-2015 20:09:55	ALS Bottle#:	20	Worklist Smp#:	14
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021039-014				
Operator ID:	YPH	Instrument ID:	LC10		
Method:	\\SACChrom\ChromData\LC10\20150415-21039.b\8330_LC10.m				
Limit Group:	LC 8330B ICAL				
Last Update:	16-Apr-2015 12:51:48	Calib Date:	11-Mar-2015 20:09:31		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D				
Column 1 :	Synergi Hydro-RP C18 (4.60 mm)		Det: LC mwd1A, 250 nm		
Process Host:	XAWRK006				

First Level Reviewer: huangyun Date: 16-Apr-2015 12:32:52

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
27 1,3,5-Trinitrobenzene						
1	9.601	9.591	0.010	283H	1.46	
5 Nitrobenzene						
1	13.691	13.878	-0.187	6527H	77.3	
25 2,4,6-Trinitrotoluene						
1	15.271	15.381	-0.110	189510H	1667.4	E
$ 30 3,4-Dinitrotoluene						
1	16.488	16.474	0.014	7586H	113.2	
2	16.484	16.474	0.010	15273H	113.7	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
H - Response Measured by Height

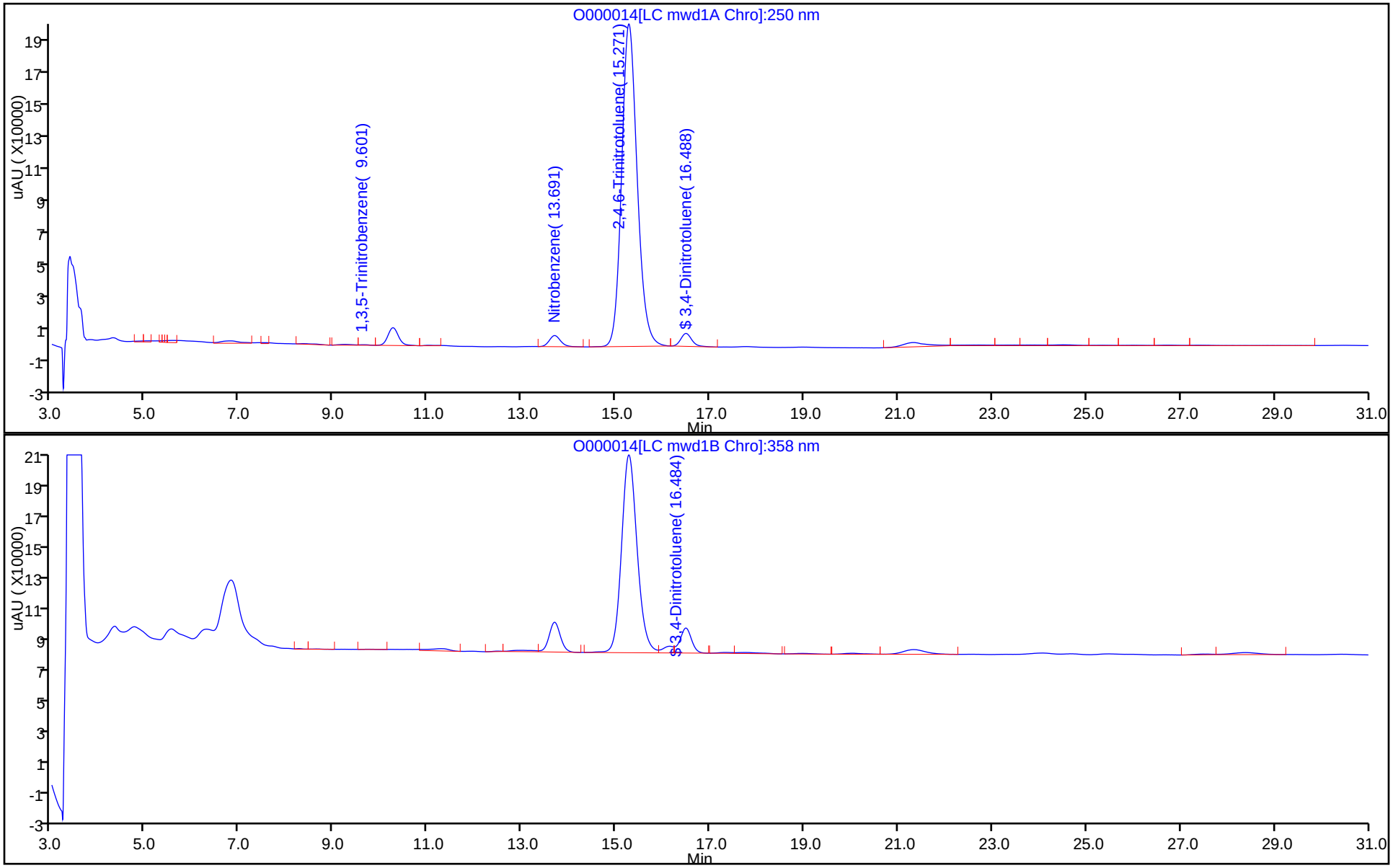
Report Date: 27-Apr-2015 14:26:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000014.D

Injection Date:	15-Apr-2015 20:09:55	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	240-49236-G-3-A	Lab Sample ID:	320-49236-3	Worklist Smp#:	14
Client ID:	079SB-0385-0001-SW				
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Client Sample ID: 079SB-0385-0001-SW Lab Sample ID: 240-49236-3

Matrix: Water Lab File ID: W000011.D

Analysis Method: 8330B Date Collected: 04/10/2015 08:45

Extraction Method: 8330-Prep Date Extracted: 04/13/2015 09:25

Sample wt/vol: 939.3(mL) Date Analyzed: 04/24/2015 02:59

Con. Extract Vol.: 20(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Zorbax CN ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 71996 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	95		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000011.D
Lims ID: 240-49236-G-3-A Lab Sample ID: 320-49236-3
Client ID: 079SB-0385-0001-SW
Sample Type: Client
Inject. Date: 24-Apr-2015 02:59:14 ALS Bottle#: 17 Worklist Smp#: 11
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021276-011
Operator ID: YPH Instrument ID: LC9

Method: \\SACChrom\ChromData\LC9\20150423-21276.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 27-Apr-2015 14:22:28 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK006

First Level Reviewer: huangyun Date: 24-Apr-2015 17:23:13

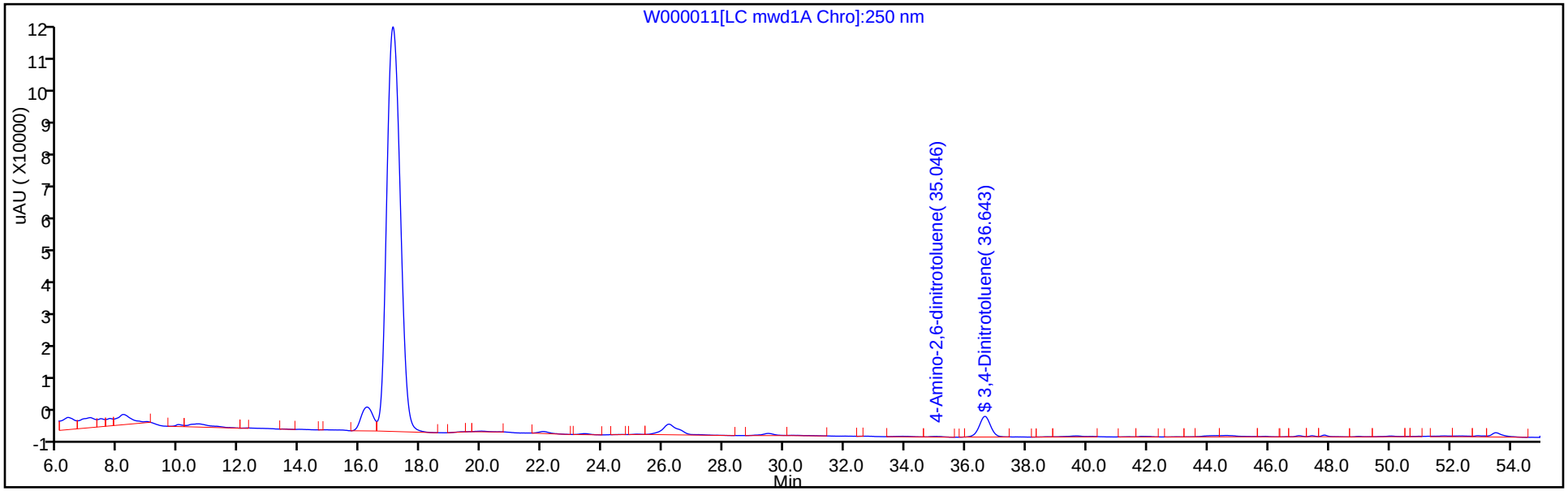
	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
	16	4-Amino-2,6-dinitrotoluene					
	1	35.046	35.102	-0.056	166H	2.51	
$	17	3,4-Dinitrotoluene					
	1	36.643	36.838	-0.195	5644H	119.2	

Report Date: 27-Apr-2015 14:28:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

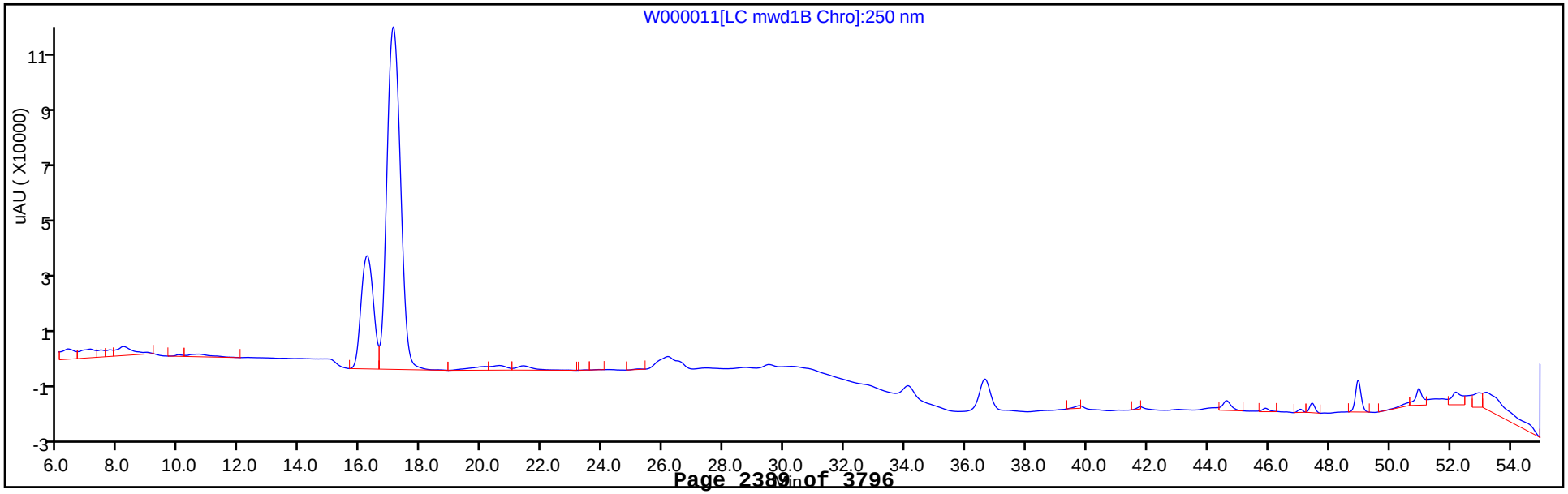
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC9\20150423-21276.b\W000011.D				
Injection Date:	24-Apr-2015 02:59:14	Instrument ID:	LC9	Operator ID:	YPH
Lims ID:	240-49236-G-3-A	Lab Sample ID:	320-49236-3	Worklist Smp#:	11
Client ID:	079SB-0385-0001-SW				
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 67883

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-67883/4	J000007.D
Level 2	IC 320-67883/5	J000008.D
Level 3	IC 320-67883/6	J000009.D
Level 4	IC 320-67883/7	J000010.D
Level 5	IC 320-67883/8	J000011.D
Level 6	IC 320-67883/9	J000012.D
Level 7	IC 320-67883/10	J000013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
HMX	5.154	5.152	5.154	5.149	5.149	5.146	5.137				4.899 - 5.399	5.149
RDX	7.407	7.405	7.404	7.406	7.405	7.396	7.377				7.156 - 7.656	7.400
Ethylene glycol dinitrate	+++++	+++++	8.051	8.056	8.055	8.046	8.030				7.806 - 8.306	8.048
Picric acid	+++++	8.612	8.591	8.579	8.569	8.516	8.460				8.329 - 8.829	8.555
1,3,5-Trinitrobenzene	9.620	9.622	9.621	9.623	9.622	9.613	9.597				9.373 - 9.873	9.617
1,3-Dinitrobenzene	12.210	12.212	12.204	12.209	12.209	12.199	12.180				11.959 - 12.459	12.203
3,5-Dinitroaniline	12.930	12.928	12.924	12.929	12.925	12.919	12.900				12.679 - 13.179	12.922
Tetryl	13.440	13.462	13.447	13.449	13.445	13.449	13.434				13.199 - 13.699	13.447
Nitrobenzene	13.937	13.925	13.937	13.939	13.932	13.926	13.904				13.689 - 14.189	13.929
Nitroglycerin	+++++	+++++	14.744	14.749	14.742	14.746	14.727				14.499 - 14.999	14.742
2,4,6-Trinitrotoluene	15.427	15.452	15.441	15.443	15.435	15.443	15.424				15.193 - 15.693	15.438
4-Amino-2,6-dinitrotoluene	16.087	16.092	16.084	16.093	16.082	16.089	16.064				15.843 - 16.343	16.084
2-Amino-4,6-dinitrotoluene	16.920	16.945	16.941	16.949	16.935	16.943	16.914				16.699 - 17.199	16.935
2,6-Dinitrotoluene	18.497	18.525	18.537	18.526	18.512	18.526	18.497				18.276 - 18.776	18.517
2,4-Dinitrotoluene	19.064	19.068	19.077	19.093	19.079	19.086	19.057				18.843 - 19.343	19.075
2-Nitrotoluene	22.414	22.438	22.431	22.463	22.452	22.459	22.424				22.213 - 22.713	22.440
4-Nitrotoluene	24.054	24.068	24.074	24.083	24.089	24.093	24.057				23.833 - 24.333	24.074
3-Nitrotoluene	25.844	25.842	25.834	25.843	25.845	25.853	25.817				25.593 - 26.093	25.840
PETN		+++++	28.334	28.309	28.302	28.326	28.304				28.059 - 28.559	28.315
3,4-Dinitrotoluene	16.527	16.525	16.531	16.539	16.529	16.536	16.517				16.289 - 16.789	16.529

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 67883

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-67883/4	J000007.D
Level 2	IC 320-67883/5	J000008.D
Level 3	IC 320-67883/6	J000009.D
Level 4	IC 320-67883/7	J000010.D
Level 5	IC 320-67883/8	J000011.D
Level 6	IC 320-67883/9	J000012.D
Level 7	IC 320-67883/10	J000013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
HMX	167.00 143.18	149.60 150.42	143.30 132.72	143.54	Ave		147.107571				7.1		20.0			
RDX	121.40 97.200	109.00 99.700	99.350 83.334	99.720	Ave		101.386286				11.5		20.0			
Ethylene glycol dinitrate	+++++ 123.64	+++++ 124.51	126.45 105.84	122.92	Ave		120.671000				7.0		20.0			
Picric acid	+++++ 136.38	129.55 133.02	131.78 117.19	136.17	Ave		130.681167				5.4		20.0			
1,3,5-Trinitrobenzene	219.60 189.07	201.50 197.44	191.25 172.03	190.38	Ave		194.466714				7.4		20.0			
1,3-Dinitrobenzene	214.60 181.38	195.70 187.98	183.15 162.39	182.56	Ave		186.822857				8.5		20.0			
3,5-Dinitroaniline	140.20 119.60	128.60 124.12	120.80 107.18	120.56	Ave		123.007286				8.1		20.0			
Tetryl	123.60 107.25	113.80 113.60	108.65 102.94	107.16	Ave		110.999286				6.1		20.0			
Nitrobenzene	98.400 81.410	88.800 84.615	83.000 73.490	81.600	Ave		84.4735714				9.1		20.0			
Nitroglycerin	+++++ 77.150	+++++ 78.790	80.100 72.308	74.820	Ave		76.6336000				4.1		20.0			
2,4,6-Trinitrotoluene	129.20 109.70	116.30 115.70	110.75 104.35	109.58	Ave		113.653286				7.0		20.0			
4-Amino-2,6-dinitrotoluene	105.00 88.190	94.800 92.310	90.200 81.802	88.300	Ave		91.5145714				7.9		20.0			
2-Amino-4,6-dinitrotoluene	116.20 98.600	106.40 103.23	100.10 91.586	98.840	Ave		102.135857				7.5		20.0			
2,6-Dinitrotoluene	83.400 69.310	72.300 72.860	70.900 65.362	69.460	Ave		71.9417143				7.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 67883

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
2,4-Dinitrotoluene	134.80 114.42	119.30 120.39	116.40 107.92	114.76	Ave		118.283857				7.0		20.0			
2-Nitrotoluene	61.800 49.990	54.800 52.760	50.550 47.366	49.580	Ave		52.4065714				9.1		20.0			
4-Nitrotoluene	73.000 60.310	64.700 63.975	60.950 57.646	60.120	Ave		62.9572857				8.0		20.0			
3-Nitrotoluene	69.800 56.050	61.200 59.705	57.300 54.058	56.380	Ave		59.2132857				8.8		20.0			
PETN	 44.750	+++++ 45.925	44.800 43.490	43.240	Ave		44.4410000				2.5		20.0			
3,4-Dinitrotoluene	76.400 64.360	71.200 66.360	66.150 61.356	63.420	Ave		67.0351429				7.7		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 67883

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-67883/4	J000007.D
Level 2	IC 320-67883/5	J000008.D
Level 3	IC 320-67883/6	J000009.D
Level 4	IC 320-67883/7	J000010.D
Level 5	IC 320-67883/8	J000011.D
Level 6	IC 320-67883/9	J000012.D
Level 7	IC 320-67883/10	J000013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
HMX	Ave	835 30083	1496 66359	2866	7177	14318	5.00 200	10.0 500	20.0	50.0	100
RDX	Ave	607 19940	1090 41667	1987	4986	9720	5.00 200	10.0 500	20.0	50.0	100
Ethylene glycol dinitrate	Ave	+++++ 24901	+++++ 52920	2529	6146	12364	+++++ 200	+++++ 500	20.0	50.0	100
Picric acid	Ave	+++++ 66509	2591 117189	6589	13617	27276	+++++ 500	20.0 1000	50.0	100	200
1,3,5-Trinitrobenzene	Ave	1098 39487	2015 86016	3825	9519	18907	5.00 200	10.0 500	20.0	50.0	100
1,3-Dinitrobenzene	Ave	1073 37596	1957 81195	3663	9128	18138	5.00 200	10.0 500	20.0	50.0	100
3,5-Dinitroaniline	Ave	701 24823	1286 53588	2416	6028	11960	5.00 200	10.0 500	20.0	50.0	100
Tetryl	Ave	618 22719	1138 51470	2173	5358	10725	5.00 200	10.0 500	20.0	50.0	100
Nitrobenzene	Ave	492 16923	888 36745	1660	4080	8141	5.00 200	10.0 500	20.0	50.0	100
Nitroglycerin	Ave	+++++ 15758	+++++ 36154	1602	3741	7715	+++++ 200	+++++ 500	20.0	50.0	100
2,4,6-Trinitrotoluene	Ave	646 23139	1163 52174	2215	5479	10970	5.00 200	10.0 500	20.0	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	525 18462	948 40901	1804	4415	8819	5.00 200	10.0 500	20.0	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	581 20645	1064 45793	2002	4942	9860	5.00 200	10.0 500	20.0	50.0	100
2,6-Dinitrotoluene	Ave	417 14572	723 32681	1418	3473	6931	5.00 200	10.0 500	20.0	50.0	100
2,4-Dinitrotoluene	Ave	674 24077	1193 53961	2328	5738	11442	5.00 200	10.0 500	20.0	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 67883

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Nitrotoluene	Ave	309 10552	548 23683	1011	2479	4999	5.00 200	10.0 500	20.0	50.0	100
4-Nitrotoluene	Ave	365 12795	647 28823	1219	3006	6031	5.00 200	10.0 500	20.0	50.0	100
3-Nitrotoluene	Ave	349 11941	612 27029	1146	2819	5605	5.00 200	10.0 500	20.0	50.0	100
PETN	Ave	 9185	+++++ 21745	896	2162	4475	 200	+++++ 500	20.0	50.0	100
3,4-Dinitrotoluene	Ave	382 13272	712 30678	1323	3171	6436	5.00 200	10.0 500	20.0	50.0	100

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Mar-2015 15:47:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-004
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:20 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:16:20

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.154	5.149	0.005	835H	5.00	5.68	
19 RDX							M
1	7.407	7.406	0.001	607H	5.00	5.99	M
3 Ethylene glycol dinitrate							
2	8.054	8.056	-0.002	753H	5.00	6.24	
10 2,4,6-Trinitrophenol							
2	8.610	8.579	0.031	1410H	10.0	10.8	
1	8.607	8.579	0.028	996H	10.0	10.8	
27 1,3,5-Trinitrobenzene							
1	9.620	9.623	-0.003	1098H	5.00	5.65	
24 1,3-Dinitrobenzene							
1	12.210	12.209	0.001	1073H	5.00	5.74	
9 3,5-Dinitroaniline							
1	12.930	12.929	0.001	701H	5.00	5.70	
20 Tetryl							
1	13.440	13.449	-0.009	618H	5.00	5.57	
5 Nitrobenzene							
1	13.937	13.939	-0.002	492H	5.00	5.82	
7 Nitroglycerin							
2	14.744	14.749	-0.005	474H	5.00	6.19	
25 2,4,6-Trinitrotoluene							
1	15.427	15.443	-0.016	646H	5.00	5.68	
26 4-Amino-2,6-dinitrotoluene							
1	16.087	16.093	-0.006	525H	5.00	5.74	
$ 30 3,4-Dinitrotoluene							M
1	16.527	16.539	-0.012	382H	5.00	5.70	
2	16.504	16.539	-0.035	834H	5.00	6.21	M
6 2-Amino-4,6-dinitrotoluene							
1	16.920	16.949	-0.029	581H	5.00	5.69	
12 2,6-Dinitrotoluene							M
1	18.497	18.526	-0.029	417H	5.00	5.80	M

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							M
1	19.064	19.093	-0.029	674H	5.00	5.70	M
16 o-Nitrotoluene							M
1	22.414	22.463	-0.049	309H	5.00	5.90	M
15 p-Nitrotoluene							M
1	24.054	24.083	-0.029	365H	5.00	5.80	M
8 m-Nitrotoluene							M
1	25.844	25.843	0.001	349H	5.00	5.89	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L1_00021 Amount Added: 1.00 Units: mL

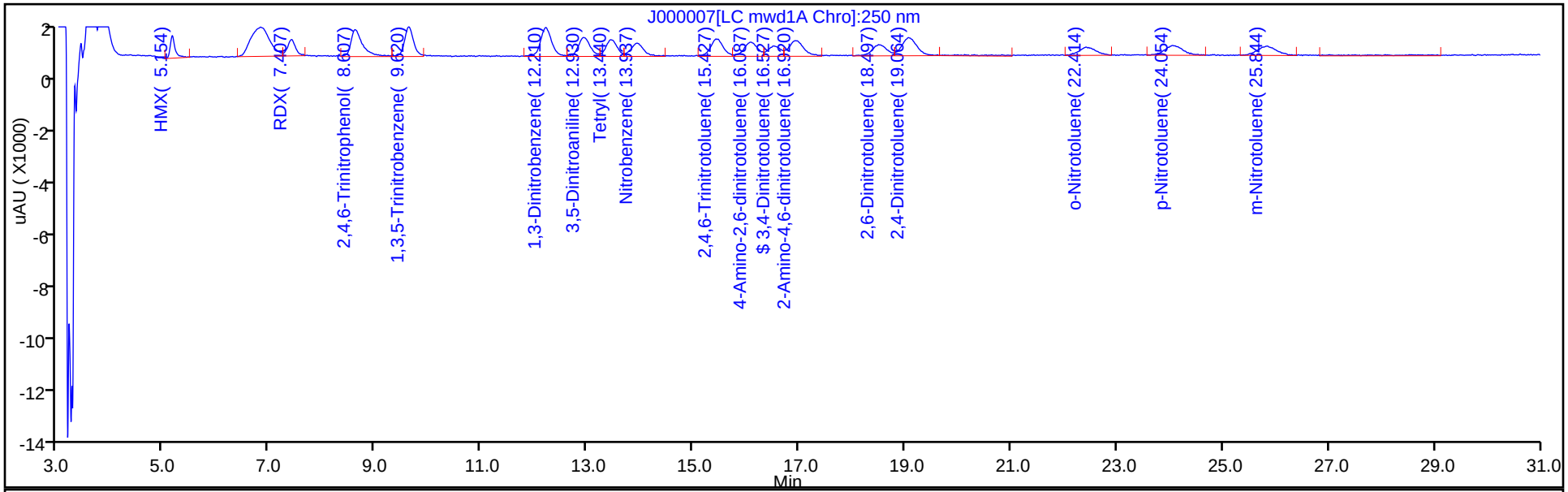
Report Date: 12-Mar-2015 11:12:21 Chrom Revision: 2.2 06-Mar-2015 13:13:48

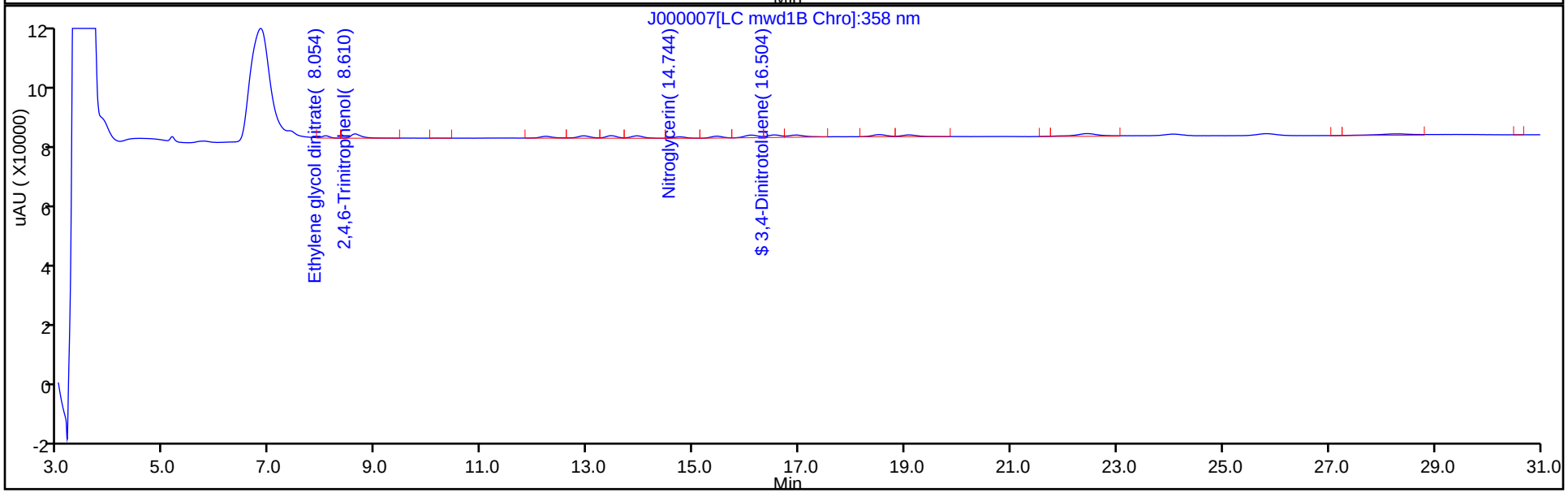
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D

Injection Date:	11-Mar-2015 15:47:30	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 1			Worklist Smp#:	4
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

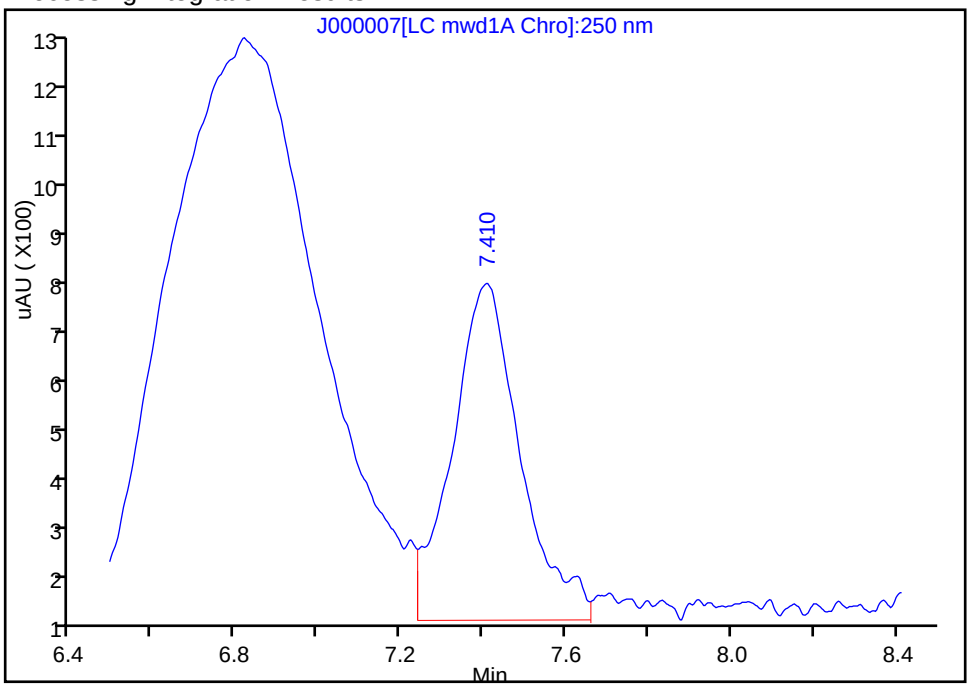
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

19 RDX, CAS: 121-82-4

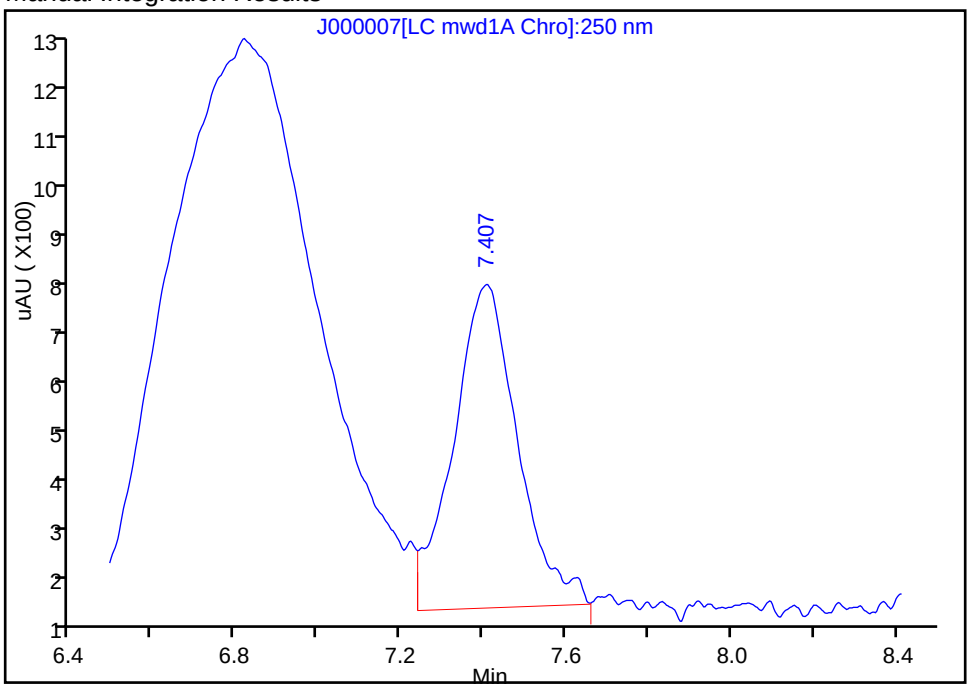
Processing Integration Results

RT: 7.41
Height: 632
Amount: 6.189975
Amount Units: ng/ml



Manual Integration Results

RT: 7.41
Height: 607
Amount: 5.987003
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

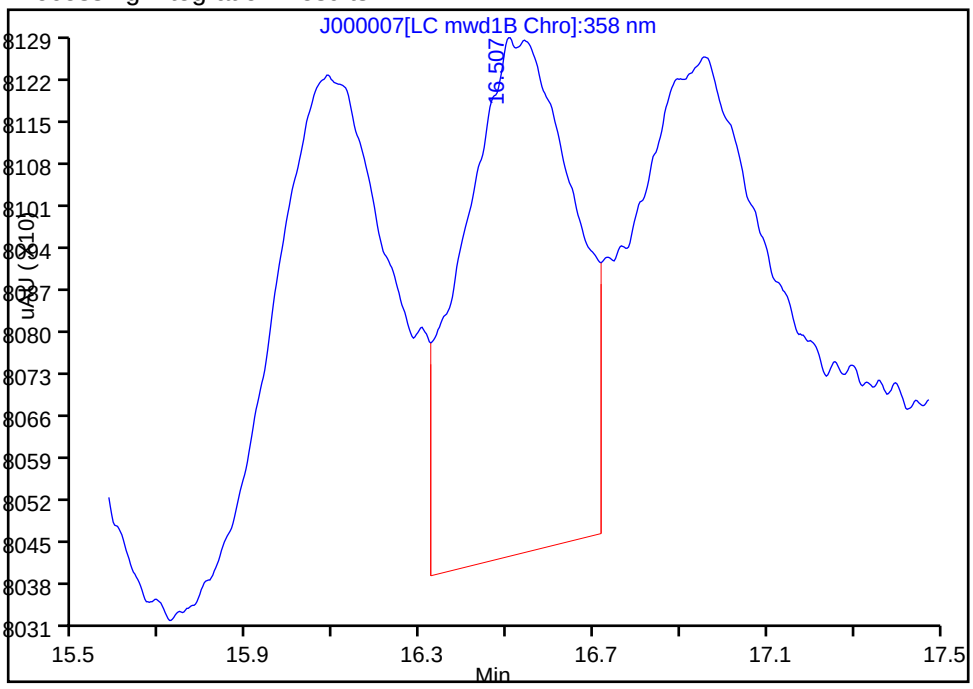
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

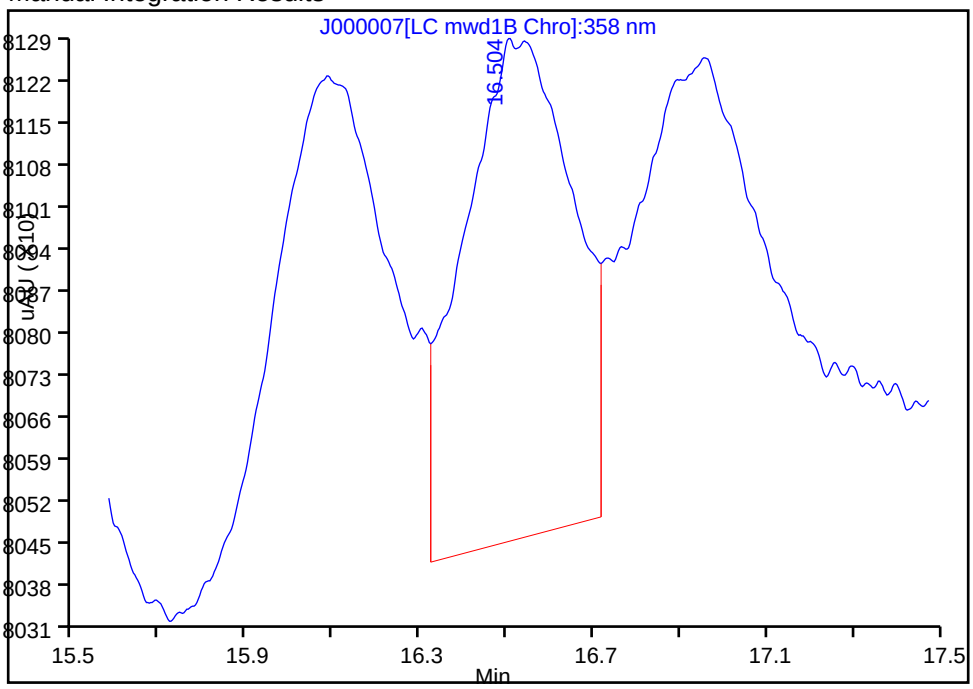
Processing Integration Results

RT: 16.51
Height: 860
Amount: 6.369750
Amount Units: ng/ml



Manual Integration Results

RT: 16.50
Height: 834
Amount: 6.211352
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

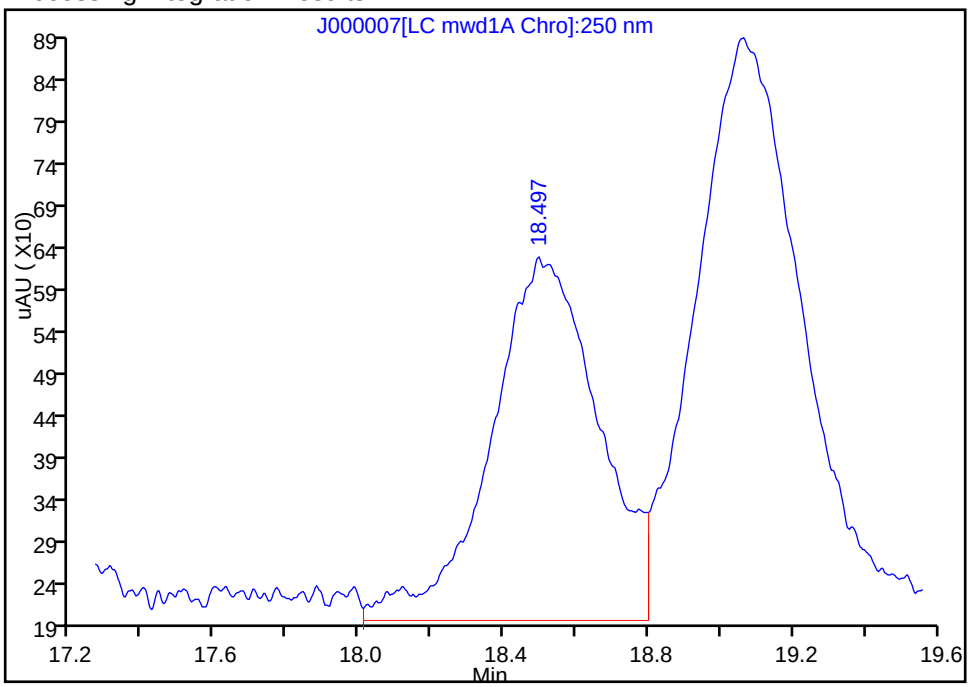
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

12 2,6-Dinitrotoluene, CAS: 606-20-2

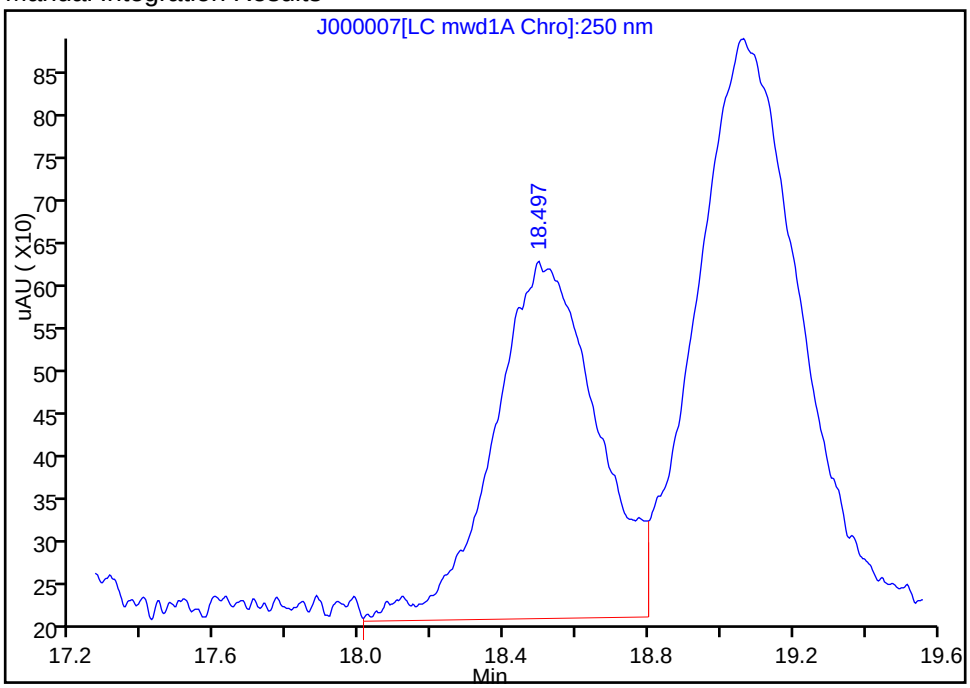
Processing Integration Results

RT: 18.50
Height: 431
Amount: 5.957835
Amount Units: ng/ml



Manual Integration Results

RT: 18.50
Height: 417
Amount: 5.796359
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

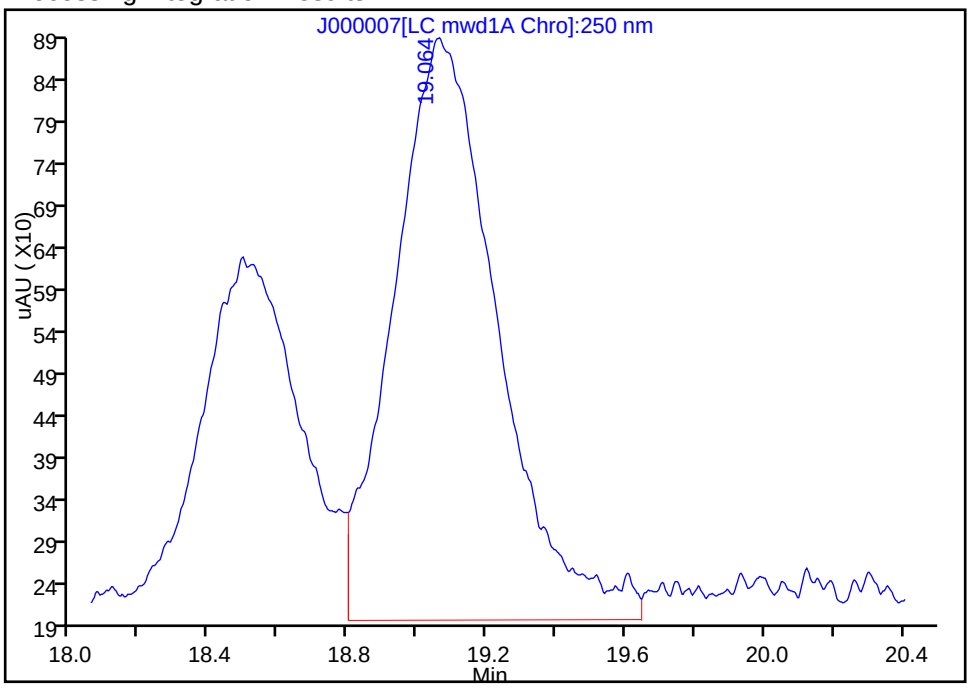
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

23 2,4-Dinitrotoluene, CAS: 121-14-2

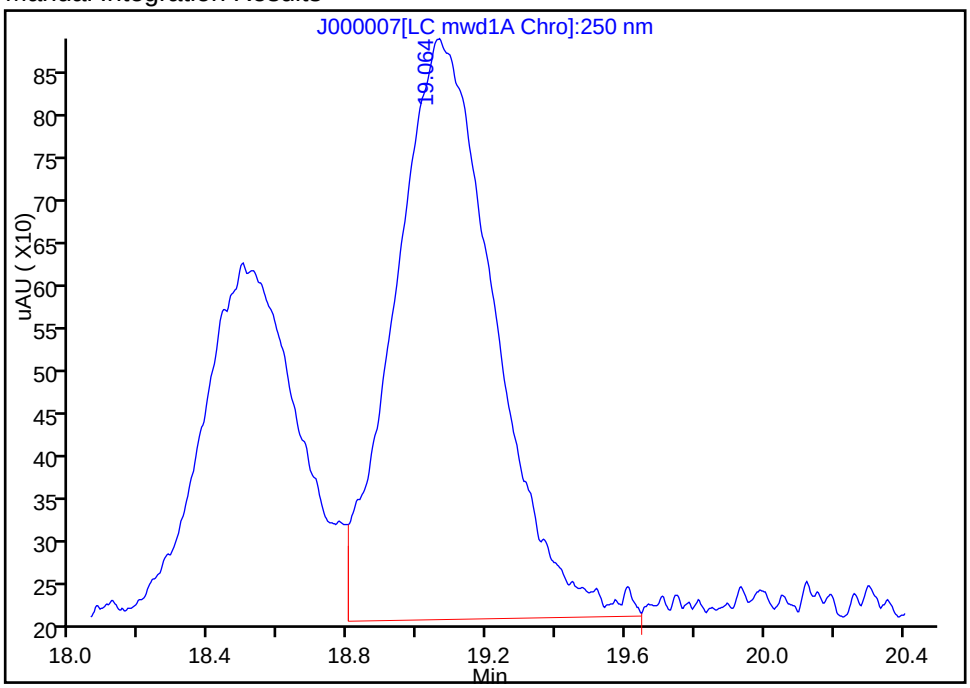
Processing Integration Results

RT: 19.06
Height: 691
Amount: 5.817988
Amount Units: ng/ml



Manual Integration Results

RT: 19.06
Height: 674
Amount: 5.698157
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

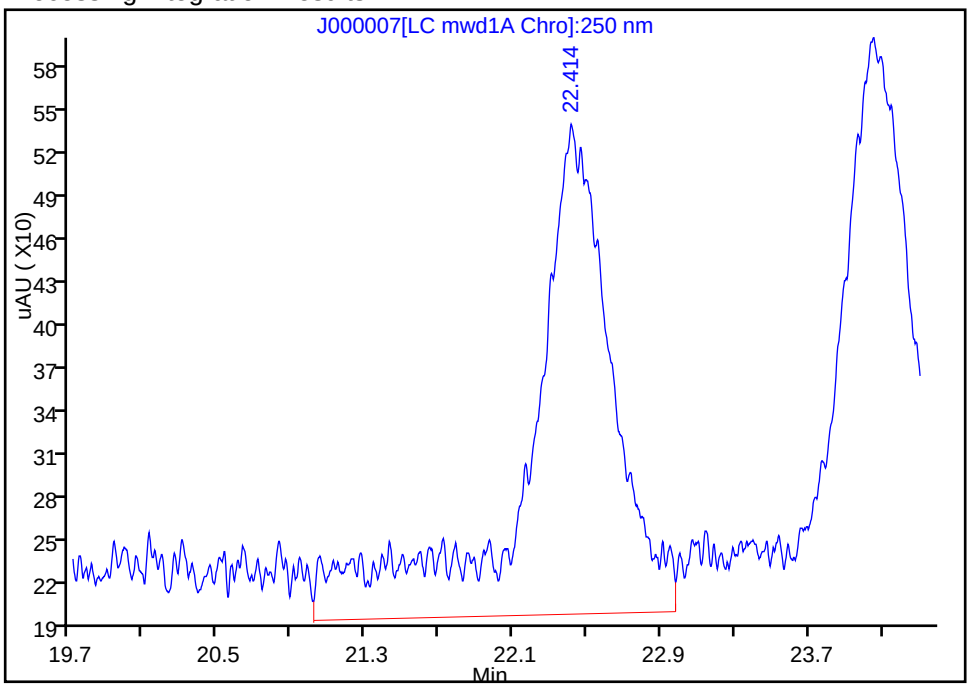
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

16 o-Nitrotoluene, CAS: 88-72-2

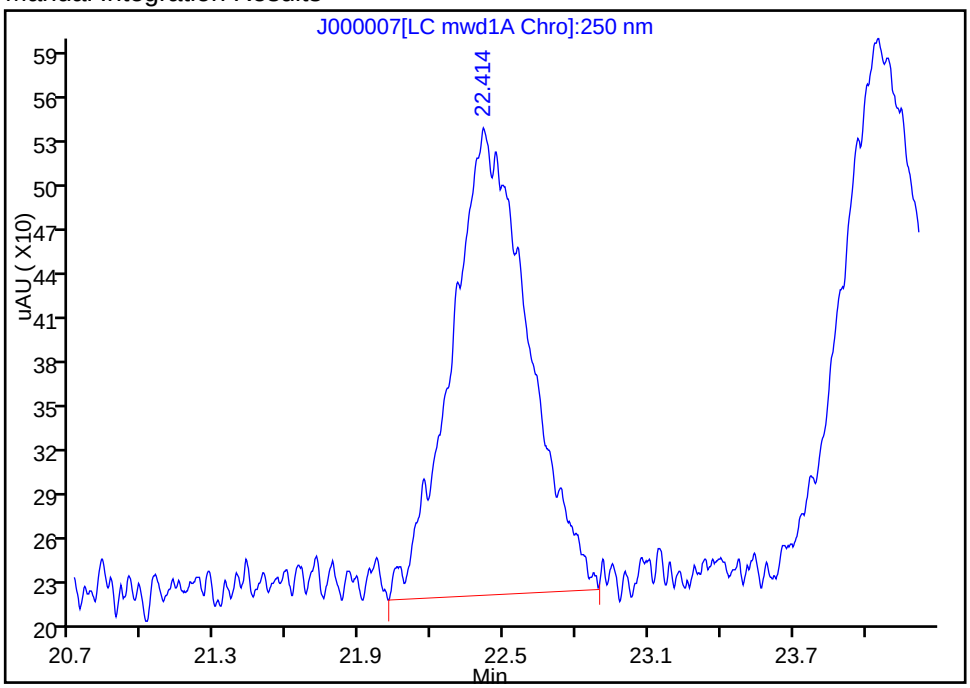
Processing Integration Results

RT: 22.41
Height: 335
Amount: 6.302984
Amount Units: ng/ml



Manual Integration Results

RT: 22.41
Height: 309
Amount: 5.896207
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

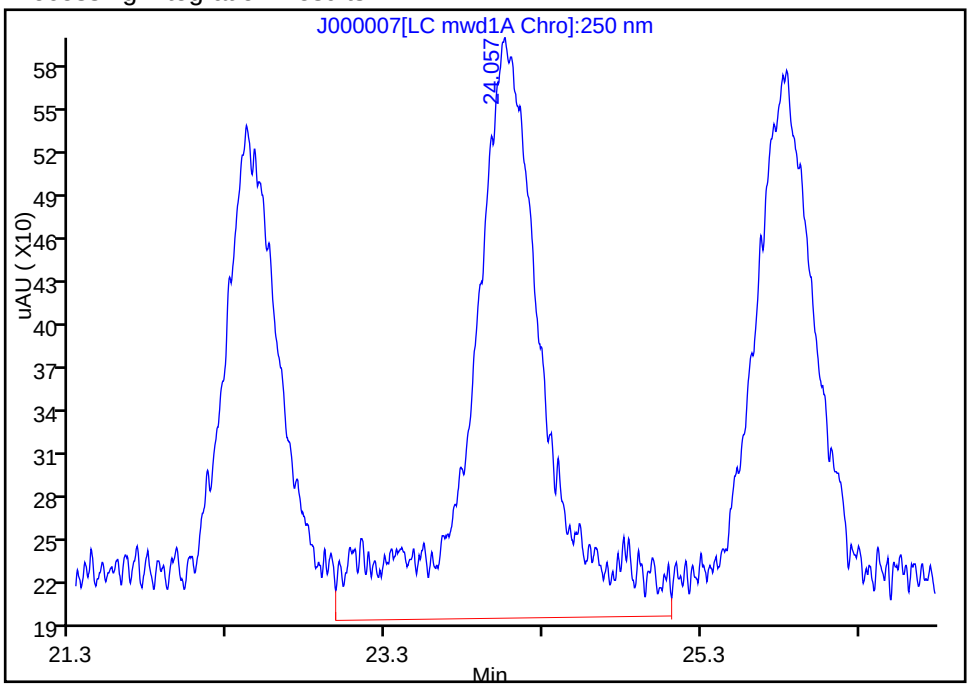
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

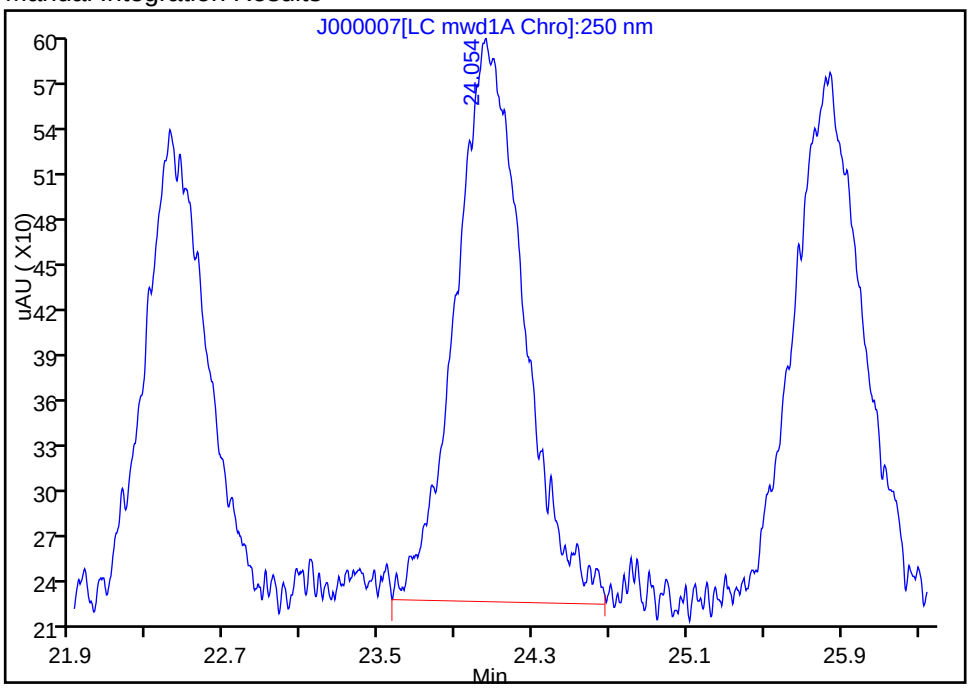
Processing Integration Results

RT: 24.06
Height: 391
Amount: 5.164403
Amount Units: ng/ml



Manual Integration Results

RT: 24.05
Height: 365
Amount: 5.797582
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

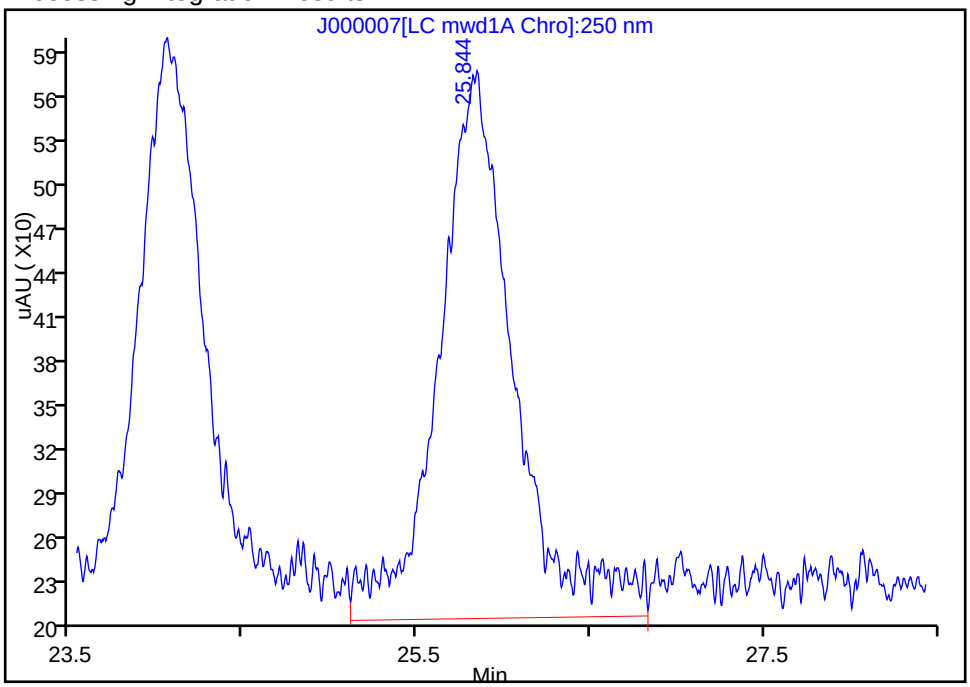
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

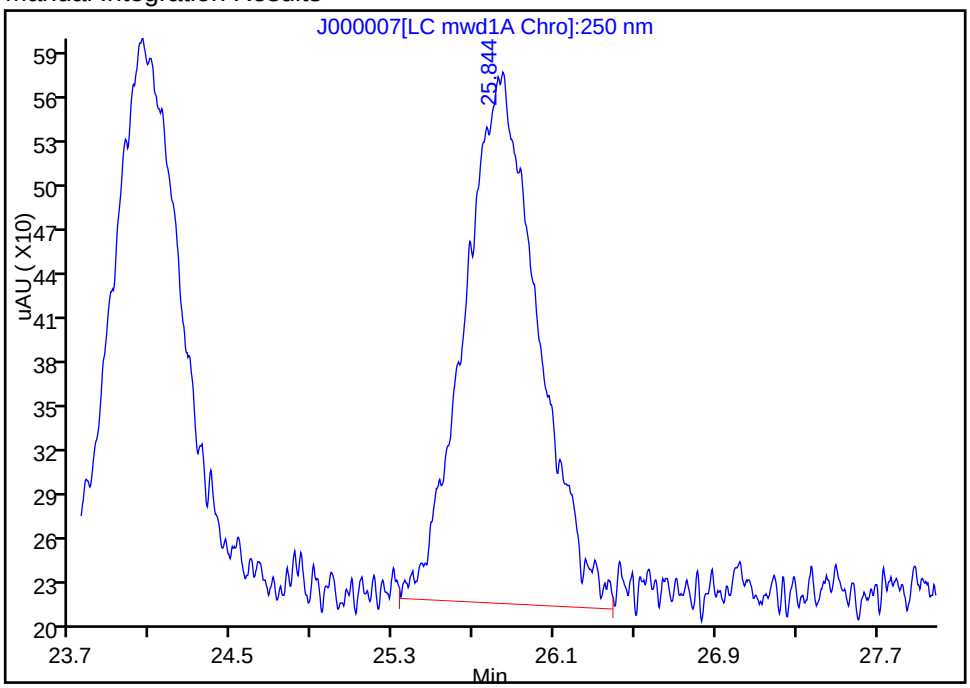
Processing Integration Results

RT: 25.84
Height: 366
Amount: 6.130756
Amount Units: ng/ml



Manual Integration Results

RT: 25.84
Height: 349
Amount: 5.893948
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Mar-2015 16:31:10 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-005
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:23 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:16:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.152	5.149	0.003	1496H	10.0	10.2	
19 RDX							M
1	7.405	7.406	-0.001	1090H	10.0	10.8	M
3 Ethylene glycol dinitrate							
2	8.055	8.056	-0.001	1385H	10.0	11.5	
10 2,4,6-Trinitrophenol							
2	8.612	8.579	0.033	2591H	20.0	19.8	
1	8.612	8.579	0.033	1837H	20.0	20.0	
27 1,3,5-Trinitrobenzene							
1	9.622	9.623	-0.001	2015H	10.0	10.4	
24 1,3-Dinitrobenzene							
1	12.212	12.209	0.003	1957H	10.0	10.5	
9 3,5-Dinitroaniline							
1	12.928	12.929	-0.001	1286H	10.0	10.5	
20 Tetryl							
1	13.462	13.449	0.013	1138H	10.0	10.3	
5 Nitrobenzene							
1	13.925	13.939	-0.014	888H	10.0	10.5	
7 Nitroglycerin							
2	14.748	14.749	-0.001	856H	10.0	11.2	
25 2,4,6-Trinitrotoluene							
1	15.452	15.443	0.009	1163H	10.0	10.2	
26 4-Amino-2,6-dinitrotoluene							
1	16.092	16.093	-0.001	948H	10.0	10.4	
$ 30 3,4-Dinitrotoluene							M
1	16.525	16.539	-0.014	712H	10.0	10.6	
2	16.532	16.539	-0.007	1546H	10.0	11.5	M
6 2-Amino-4,6-dinitrotoluene							
1	16.945	16.949	-0.004	1064H	10.0	10.4	
12 2,6-Dinitrotoluene							
1	18.525	18.526	-0.001	723H	10.0	10.0	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.068	19.093	-0.025	1193H	10.0	10.1	
16 o-Nitrotoluene							M
1	22.438	22.463	-0.025	548H	10.0	10.5	M
15 p-Nitrotoluene							M
1	24.068	24.083	-0.015	647H	10.0	10.3	M
8 m-Nitrotoluene							M
1	25.842	25.843	-0.001	612H	10.0	10.3	M
21 PETN							M
2	28.298	28.309	-0.011	480H	10.0	10.8	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L2_00015 Amount Added: 1.00 Units: mL

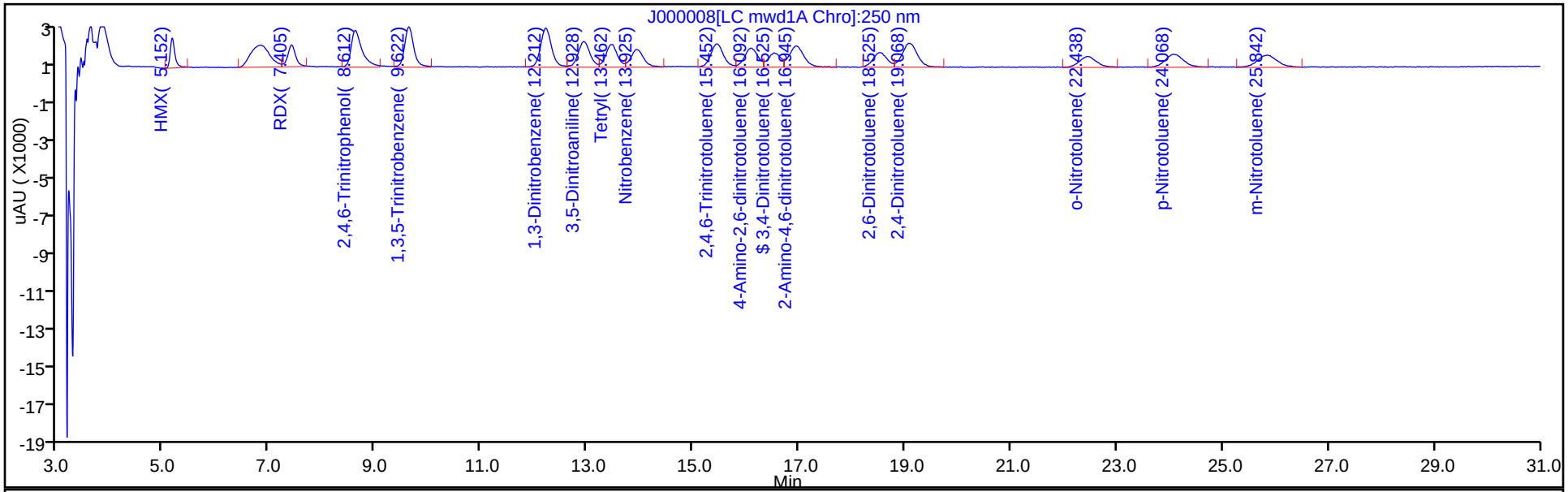
Report Date: 12-Mar-2015 11:12:24 Chrom Revision: 2.2 06-Mar-2015 13:13:48

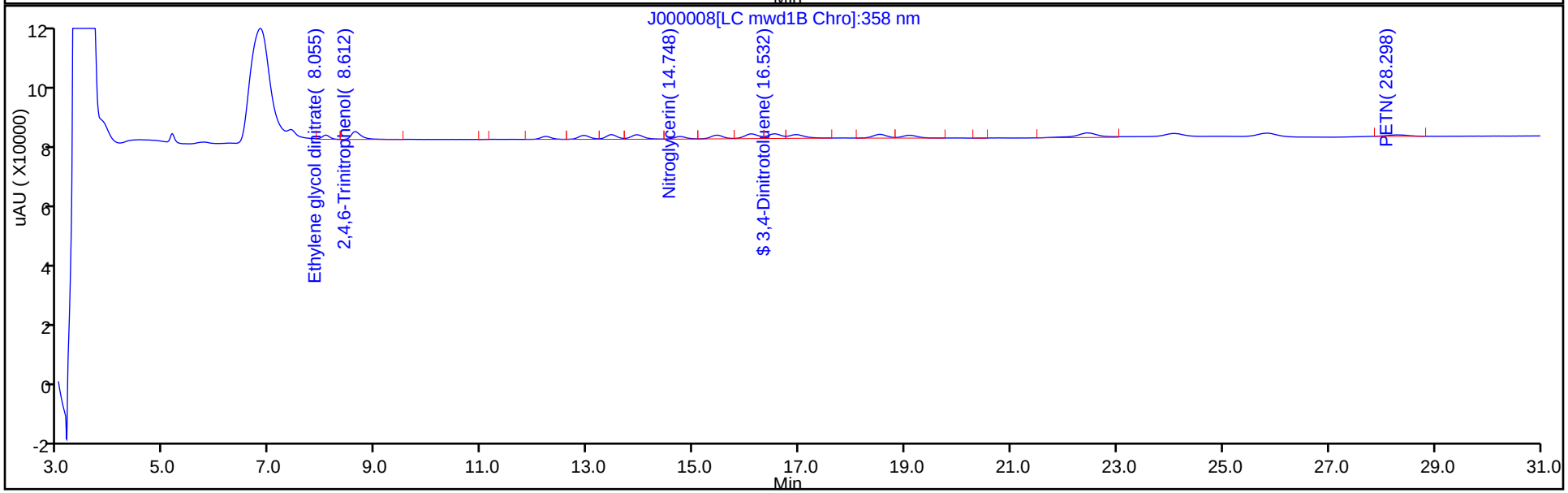
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D

Injection Date:	11-Mar-2015 16:31:10	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

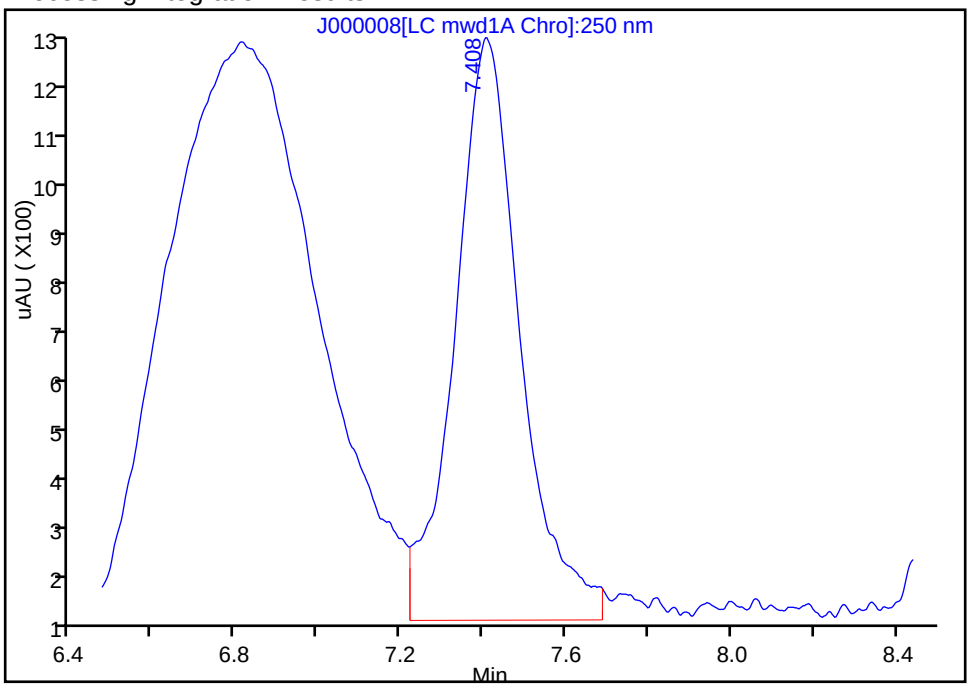
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

19 RDX, CAS: 121-82-4

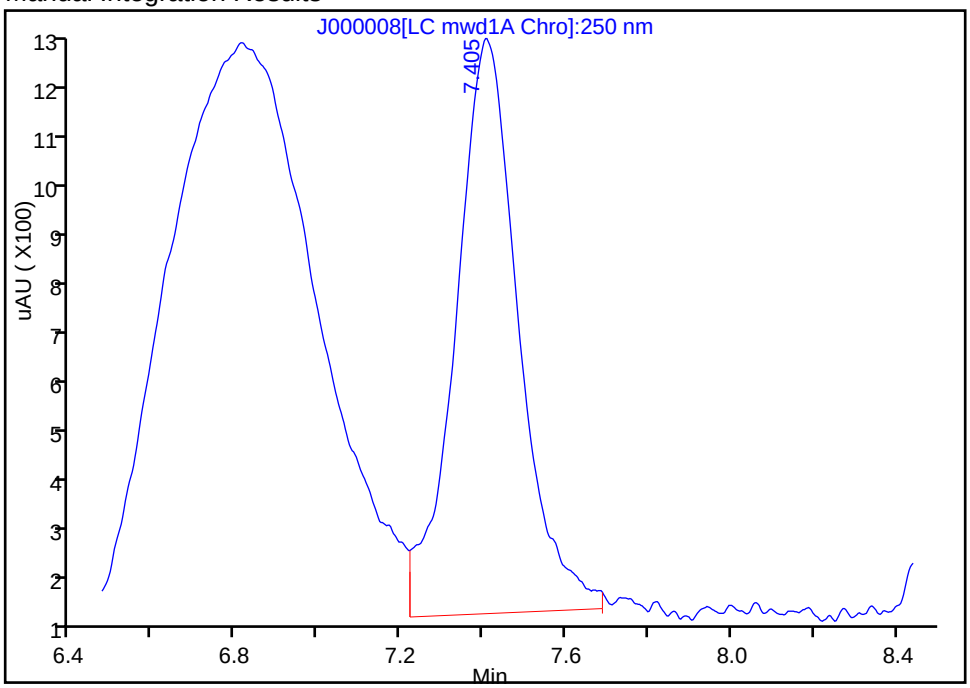
Processing Integration Results

RT: 7.41
Height: 1110
Amount: 10.898930
Amount Units: ng/ml



Manual Integration Results

RT: 7.40
Height: 1090
Amount: 10.750961
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

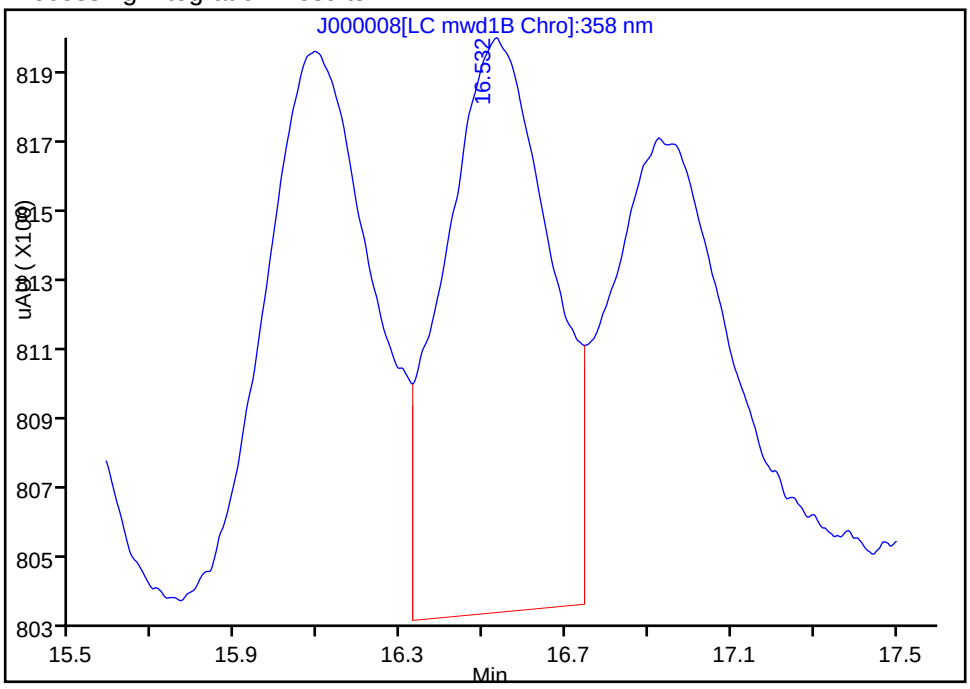
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

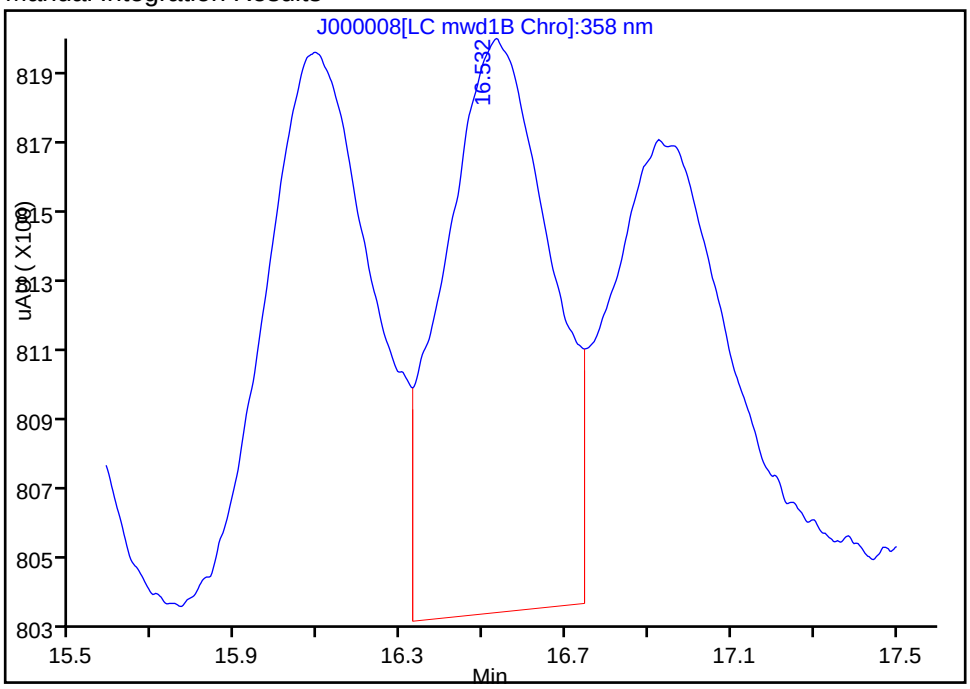
Processing Integration Results

RT: 16.53
Height: 1562
Amount: 11.549691
Amount Units: ng/ml



Manual Integration Results

RT: 16.53
Height: 1546
Amount: 11.514089
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:28:12
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

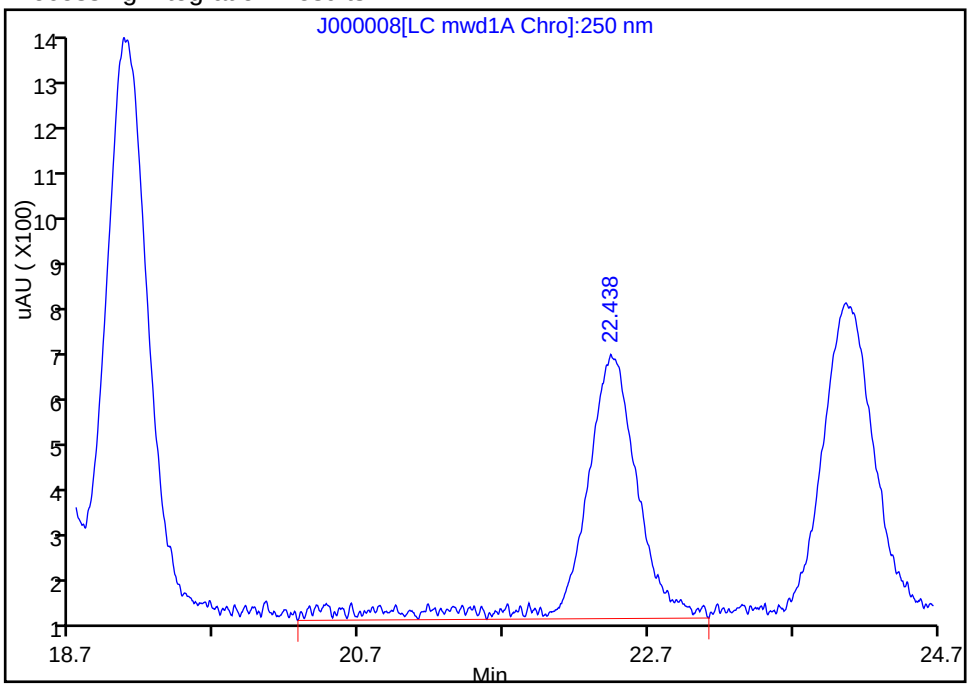
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

16 o-Nitrotoluene, CAS: 88-72-2

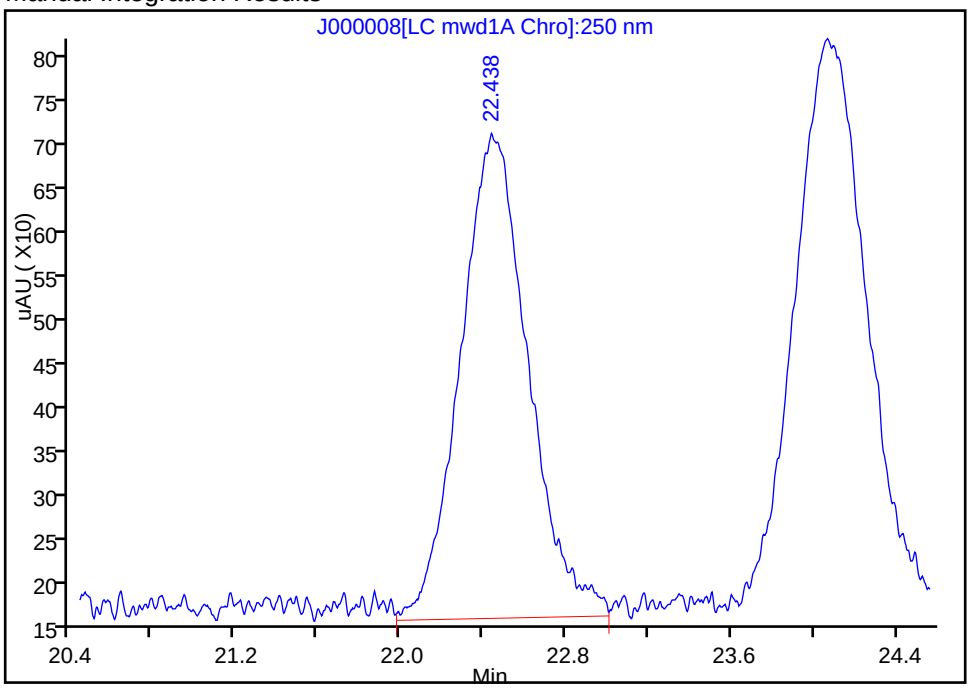
Processing Integration Results

RT: 22.44
Height: 550
Amount: 10.445182
Amount Units: ng/ml



Manual Integration Results

RT: 22.44
Height: 548
Amount: 10.456704
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

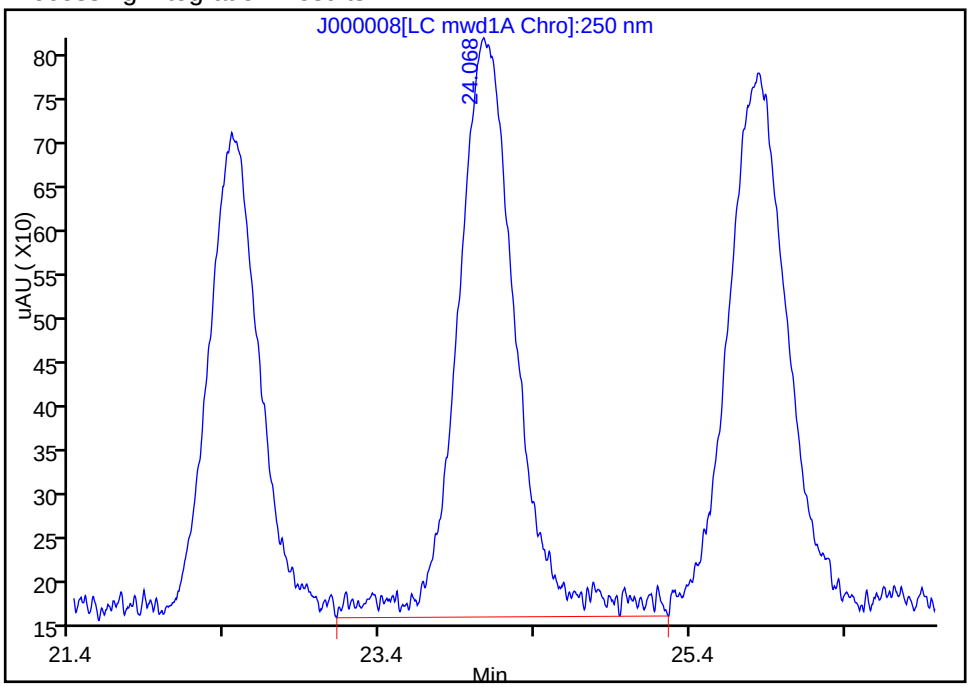
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D				
Injection Date:	11-Mar-2015 16:31:10	Instrument ID:	LC10		
Lims ID:	IC 2				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

15 p-Nitrotoluene, CAS: 99-99-0

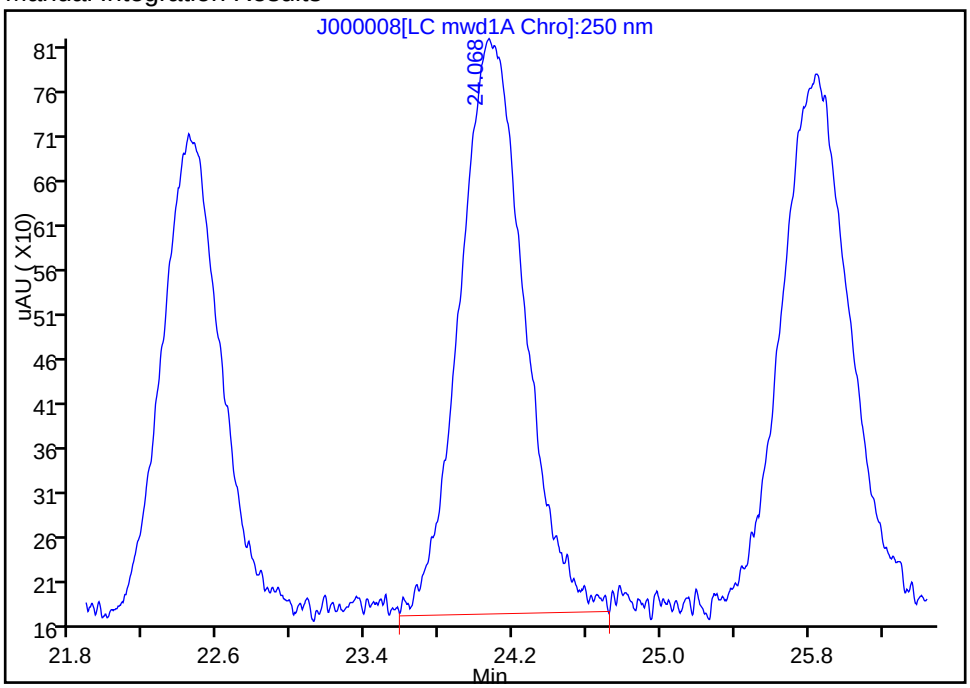
Processing Integration Results

RT: 24.07
Height: 655
Amount: 9.919489
Amount Units: ng/ml



Manual Integration Results

RT: 24.07
Height: 647
Amount: 10.276809
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

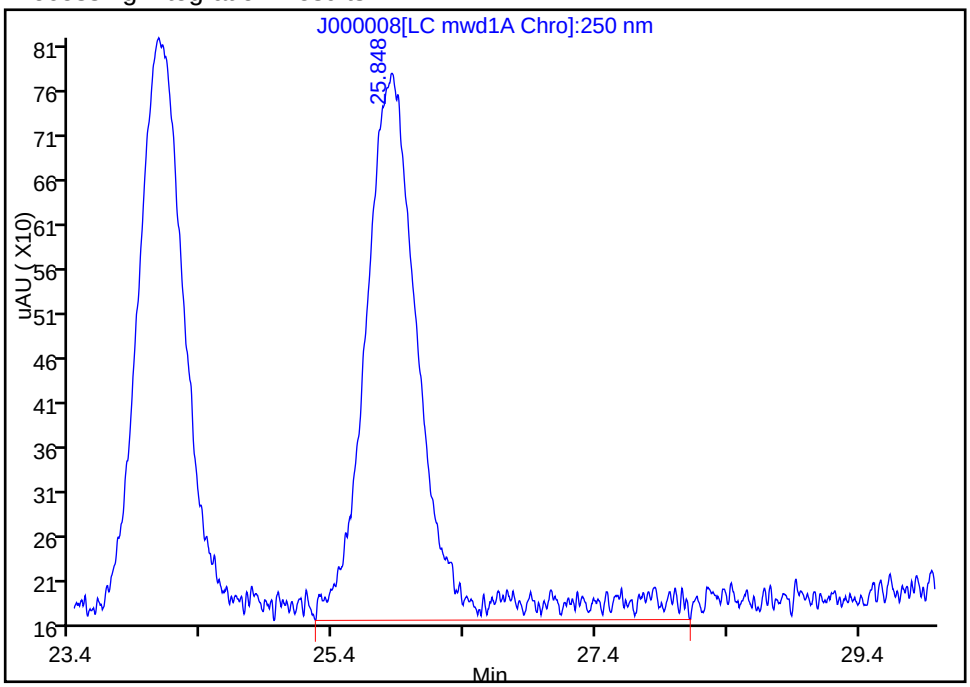
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

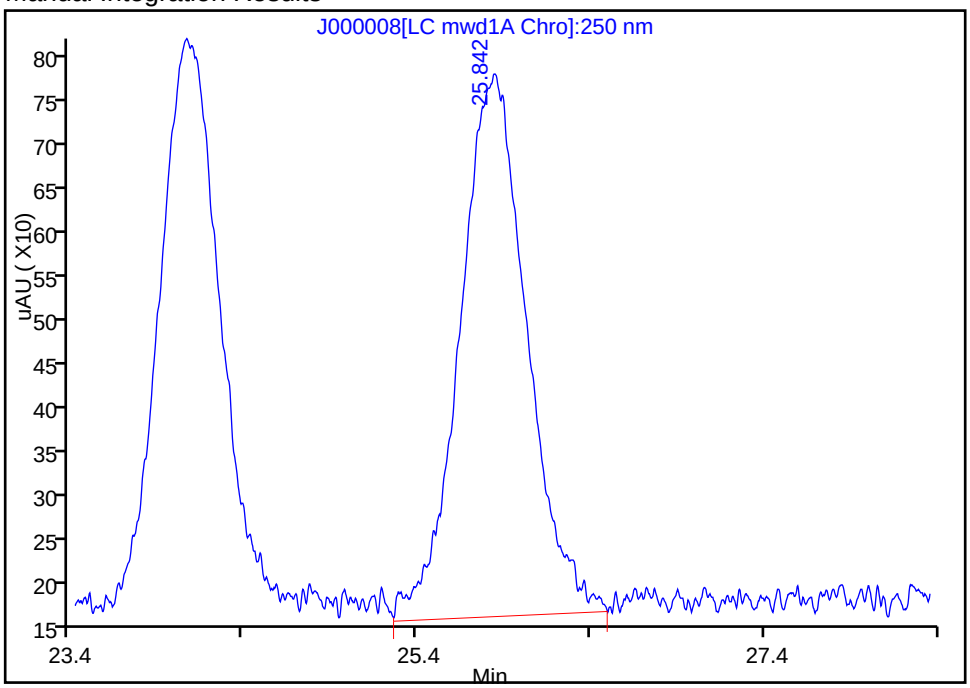
Processing Integration Results

RT: 25.85
Height: 613
Amount: 10.336820
Amount Units: ng/ml



Manual Integration Results

RT: 25.84
Height: 612
Amount: 10.335518
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

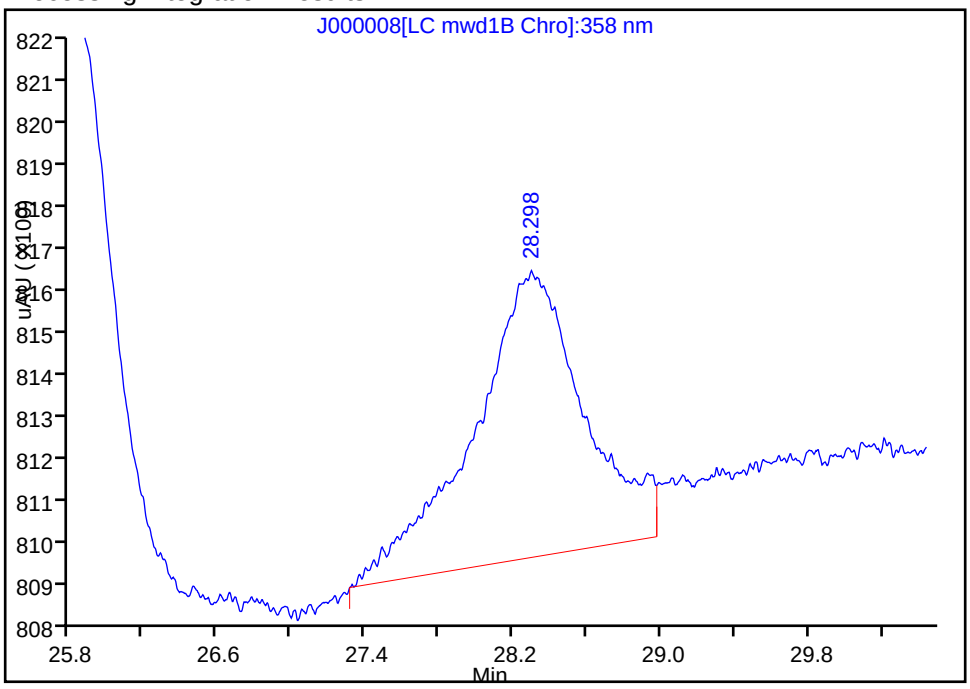
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

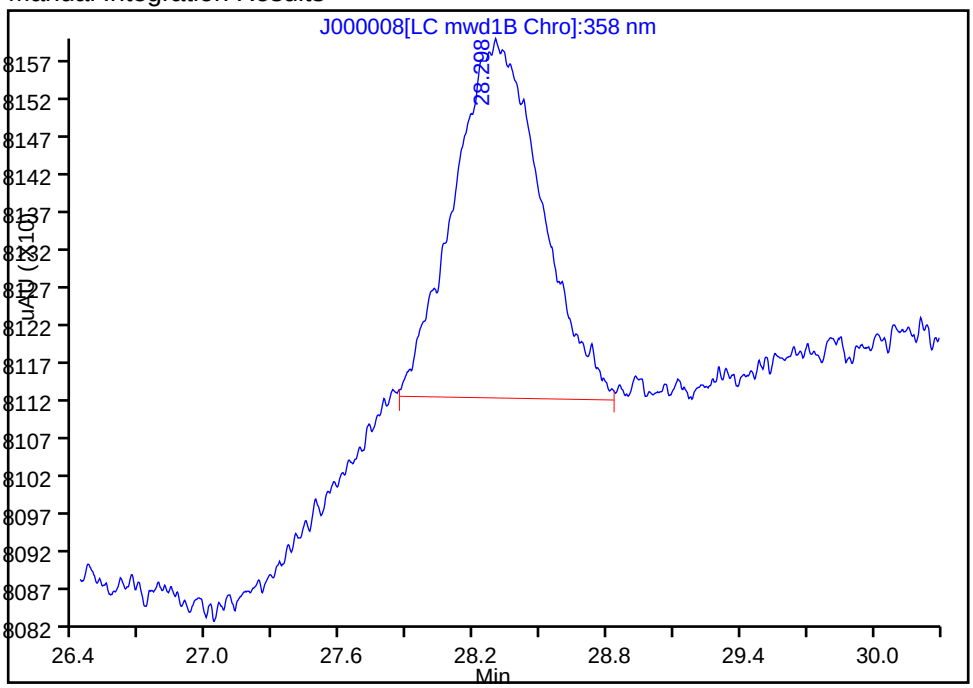
Processing Integration Results

RT: 28.30
Height: 638
Amount: 11.845997
Amount Units: ng/ml



Manual Integration Results

RT: 28.30
Height: 480
Amount: 10.800837
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:18:45
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Mar-2015 17:14:50 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-006
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:26 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:16:08

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.154	5.149	0.005	2866H	20.0	19.5	
19 RDX							M
1	7.404	7.406	-0.002	1987H	20.0	19.6	M
3 Ethylene glycol dinitrate							
2	8.051	8.056	-0.005	2529H	20.0	21.0	
10 2,4,6-Trinitrophenol							
2	8.591	8.579	0.012	6589H	50.0	50.4	
1	8.591	8.579	0.012	4565H	50.0	49.7	
27 1,3,5-Trinitrobenzene							
1	9.621	9.623	-0.002	3825H	20.0	19.7	
24 1,3-Dinitrobenzene							
1	12.204	12.209	-0.005	3663H	20.0	19.6	
9 3,5-Dinitroaniline							
1	12.924	12.929	-0.005	2416H	20.0	19.6	
20 Tetryl							
1	13.447	13.449	-0.002	2173H	20.0	19.6	
5 Nitrobenzene							
1	13.937	13.939	-0.002	1660H	20.0	19.7	
7 Nitroglycerin							
2	14.744	14.749	-0.005	1602H	20.0	20.9	
25 2,4,6-Trinitrotoluene							
1	15.441	15.443	-0.002	2215H	20.0	19.5	
26 4-Amino-2,6-dinitrotoluene							
1	16.084	16.093	-0.009	1804H	20.0	19.7	
$ 30 3,4-Dinitrotoluene							M
1	16.531	16.539	-0.008	1323H	20.0	19.7	
2	16.527	16.539	-0.012	2613H	20.0	19.5	M
6 2-Amino-4,6-dinitrotoluene							
1	16.941	16.949	-0.008	2002H	20.0	19.6	
12 2,6-Dinitrotoluene							
1	18.537	18.526	0.011	1418H	20.0	19.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.077	19.093	-0.016	2328H	20.0	19.7	
16 o-Nitrotoluene							M
1	22.431	22.463	-0.032	1011H	20.0	19.3	M
15 p-Nitrotoluene							M
1	24.074	24.083	-0.009	1219H	20.0	19.4	M
8 m-Nitrotoluene							M
1	25.834	25.843	-0.009	1146H	20.0	19.4	M
21 PETN							M
2	28.334	28.309	0.025	896H	20.0	20.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L3_00016 Amount Added: 1.00 Units: mL

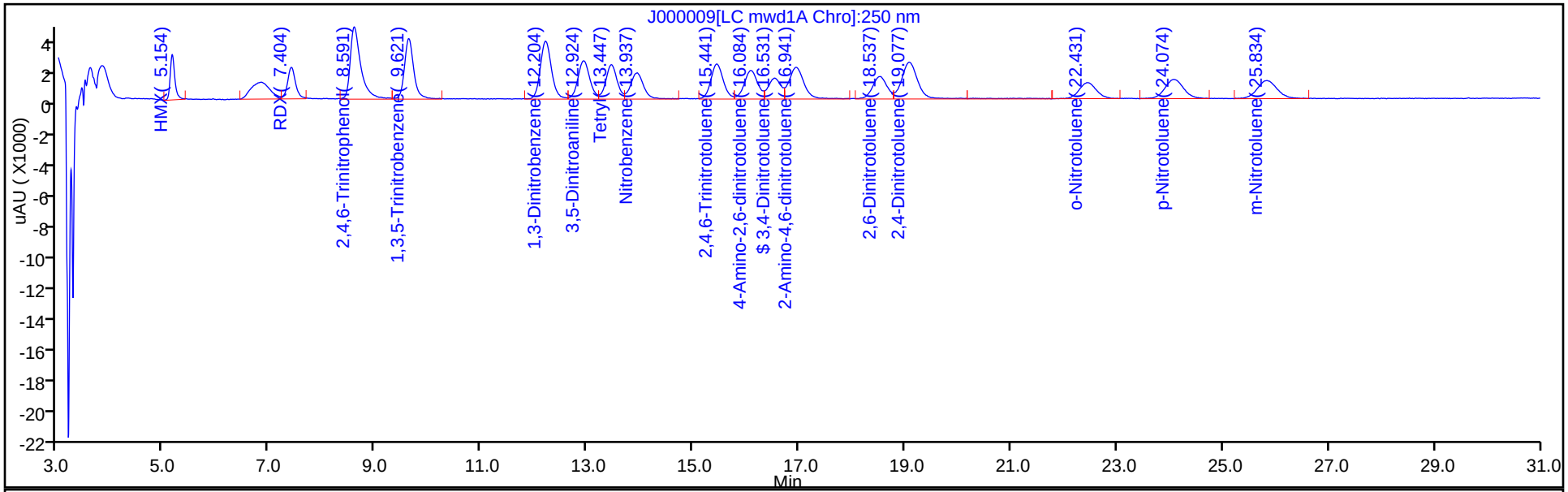
Report Date: 12-Mar-2015 11:12:27 Chrom Revision: 2.2 06-Mar-2015 13:13:48

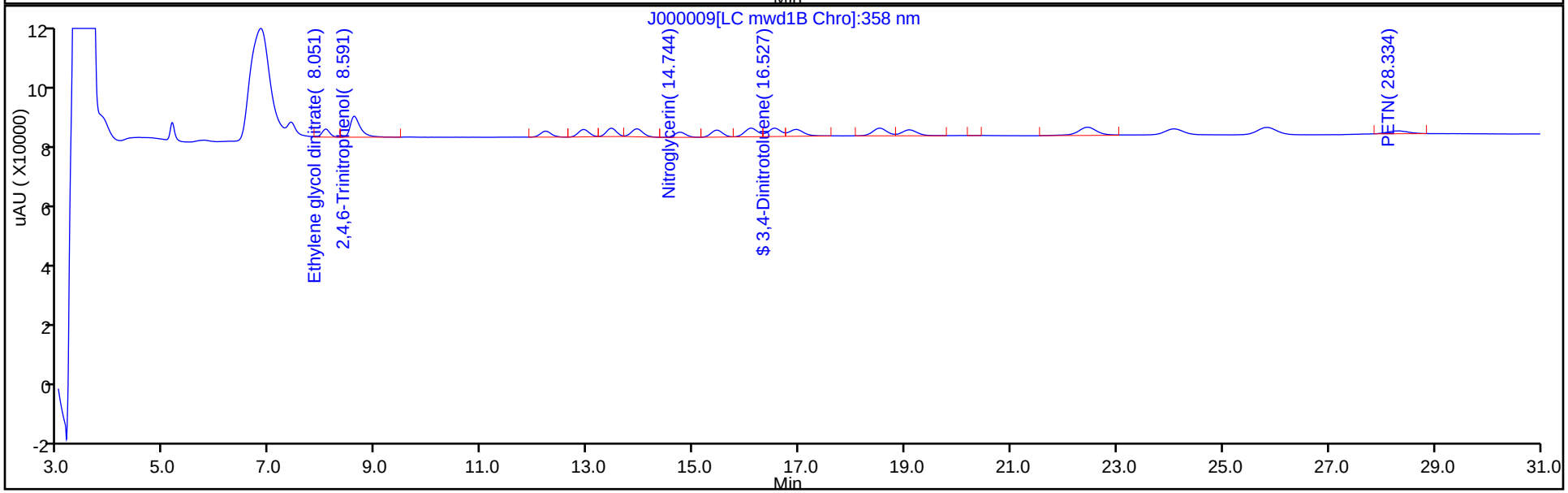
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D

Injection Date:	11-Mar-2015 17:14:50	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

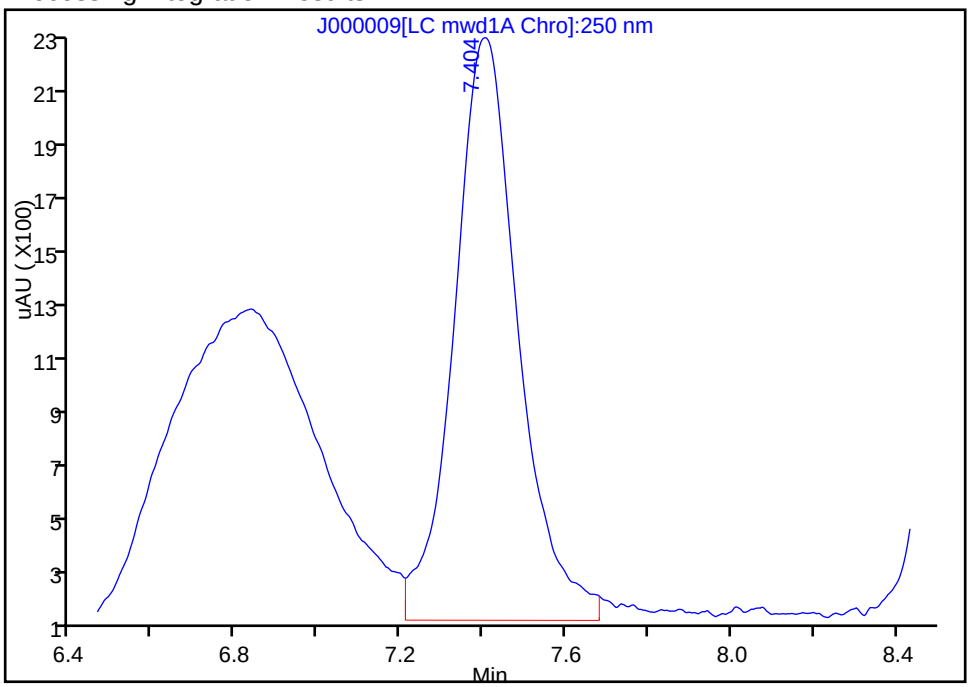
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D				
Injection Date:	11-Mar-2015 17:14:50	Instrument ID:	LC10		
Lims ID:	IC 3				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

19 RDX, CAS: 121-82-4

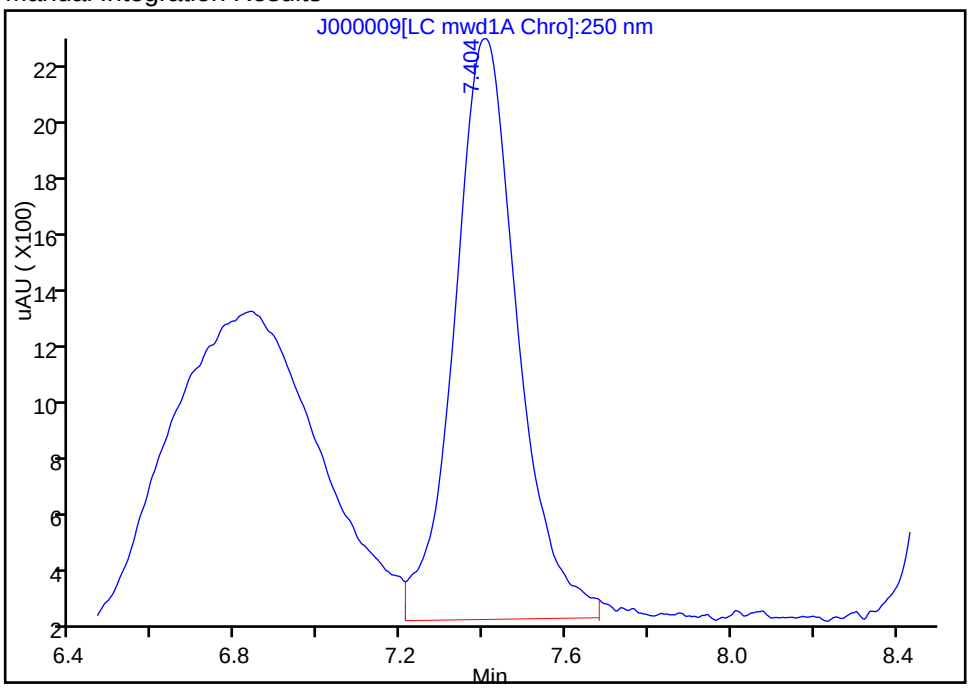
Processing Integration Results

RT: 7.40
Height: 2003
Amount: 19.722498
Amount Units: ng/ml



Manual Integration Results

RT: 7.40
Height: 1987
Amount: 19.598311
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:38:32
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

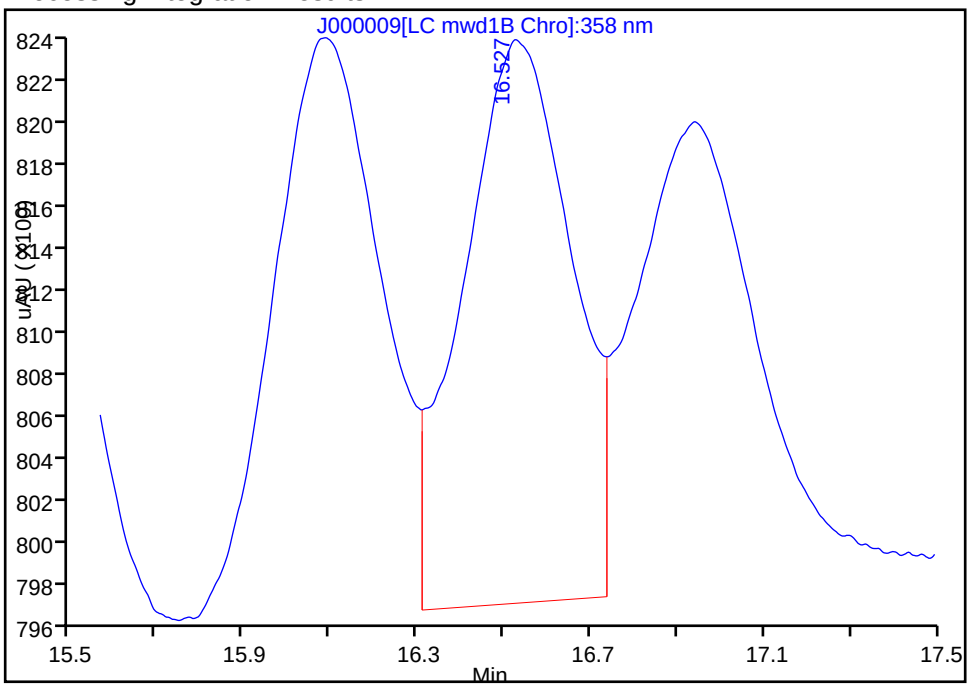
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Injection Date: 11-Mar-2015 17:14:50 Instrument ID: LC10
Lims ID: IC 3
Client ID:
Operator ID: YPH ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

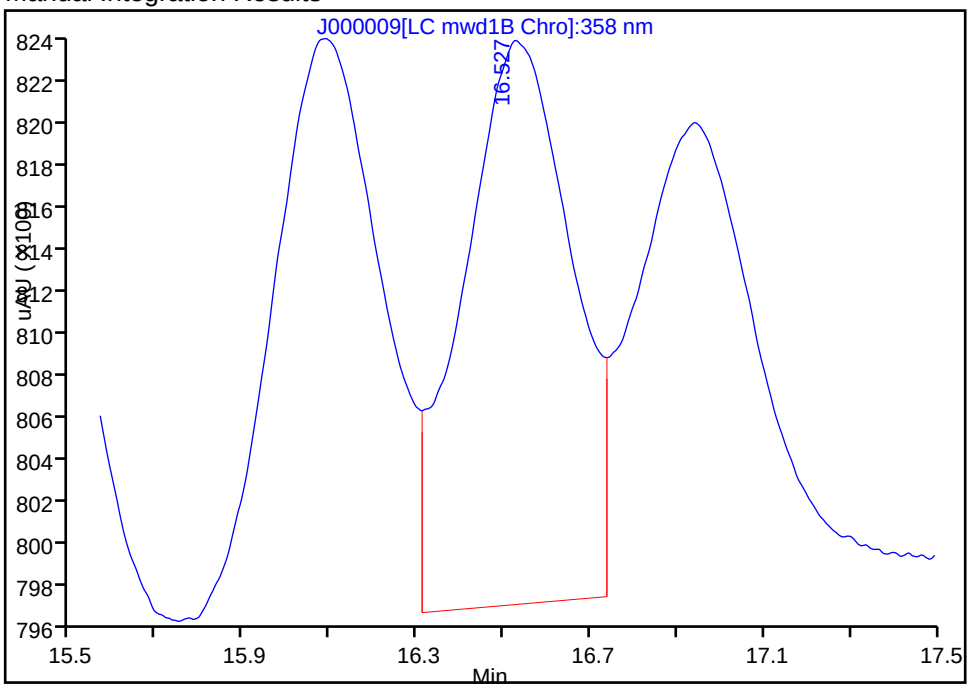
Processing Integration Results

RT: 16.53
Height: 2611
Amount: 19.308213
Amount Units: ng/ml



Manual Integration Results

RT: 16.53
Height: 2613
Amount: 19.460747
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:27:50
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

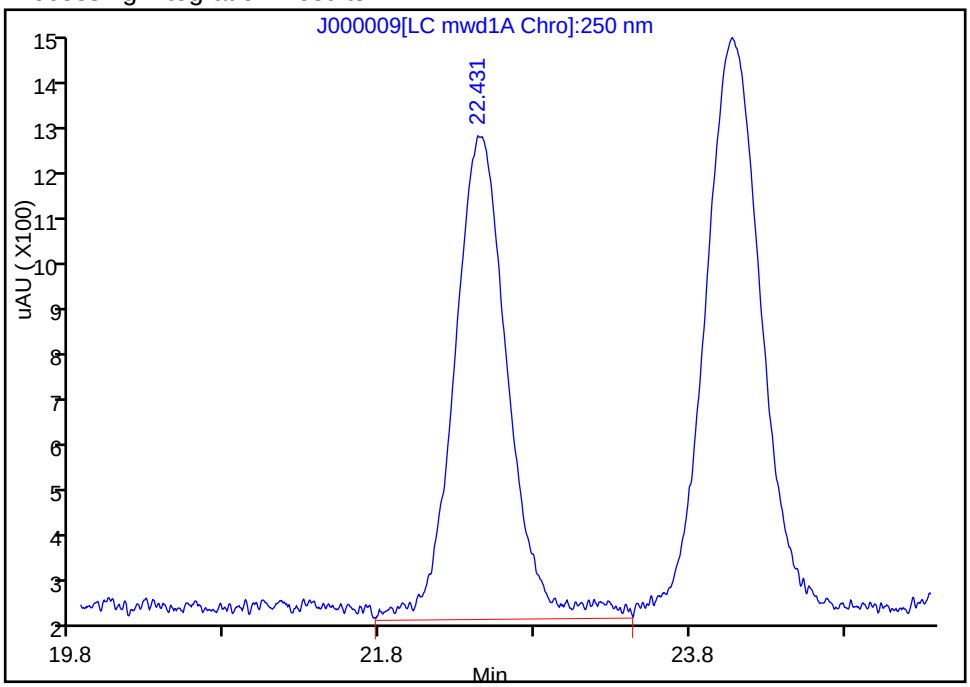
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D				
Injection Date:	11-Mar-2015 17:14:50	Instrument ID:	LC10		
Lims ID:	IC 3				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

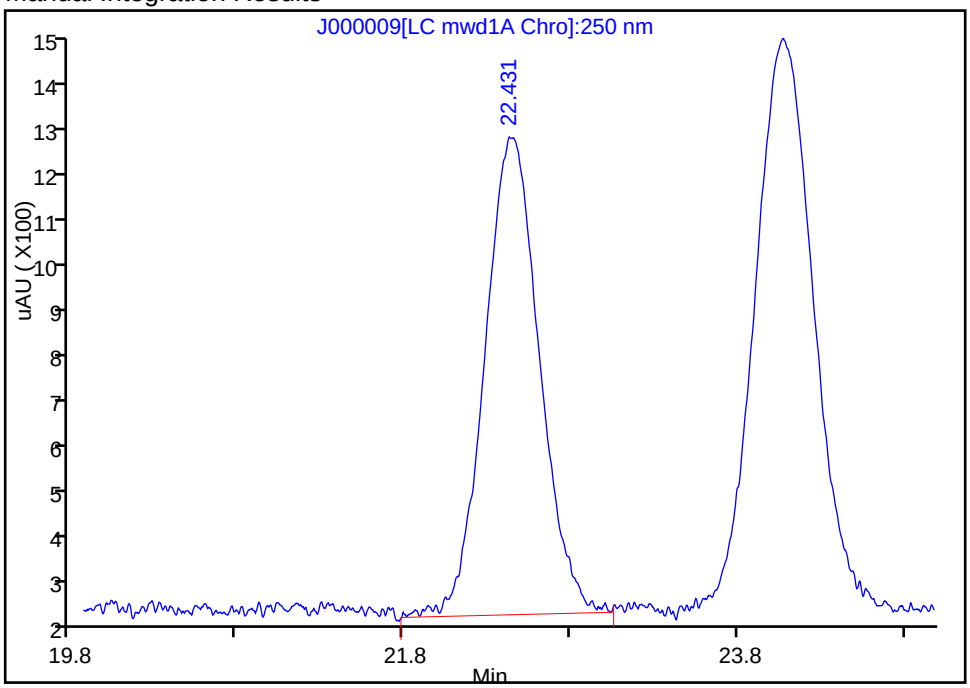
Processing Integration Results

RT: 22.43
Height: 1027
Amount: 19.514592
Amount Units: ng/ml



Manual Integration Results

RT: 22.43
Height: 1011
Amount: 19.291474
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:39:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

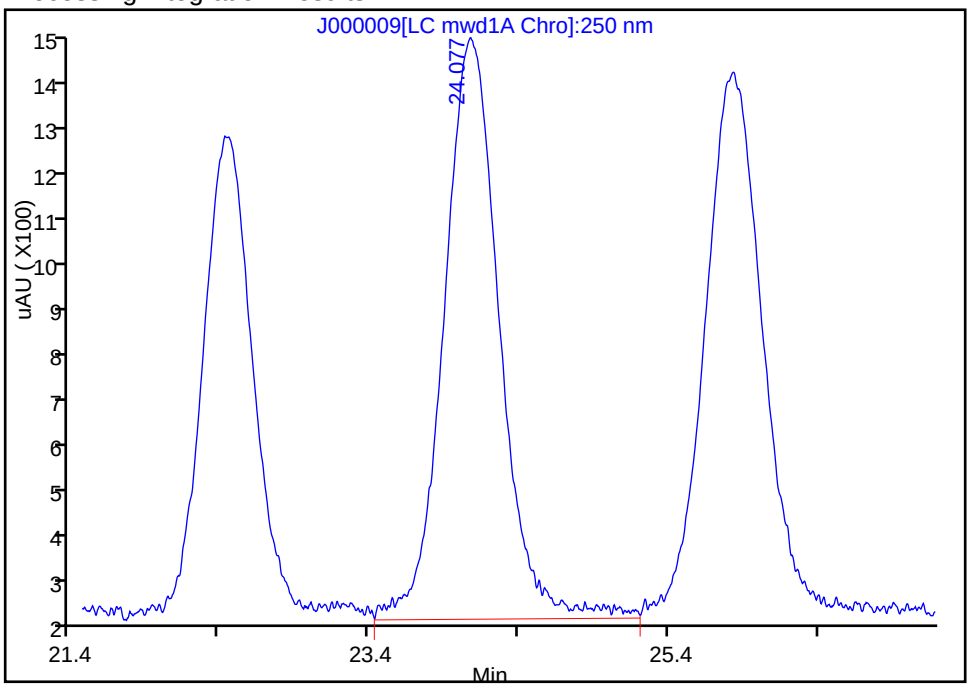
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Injection Date: 11-Mar-2015 17:14:50 Instrument ID: LC10
Lims ID: IC 3
Client ID:
Operator ID: YPH ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

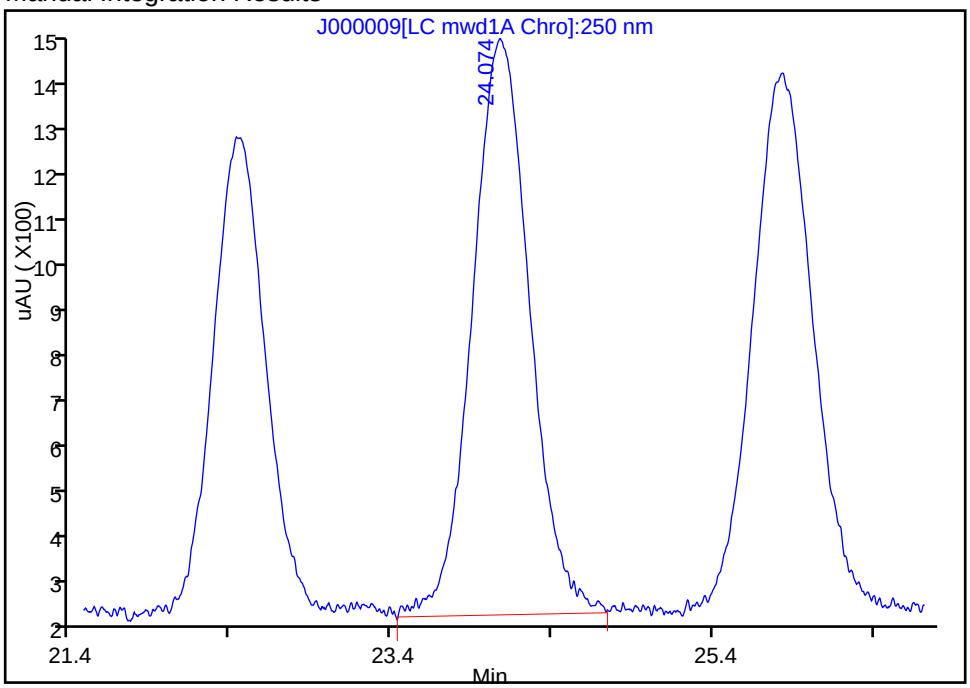
Processing Integration Results

RT: 24.08
Height: 1230
Amount: 19.583324
Amount Units: ng/ml



Manual Integration Results

RT: 24.07
Height: 1219
Amount: 19.362334
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:39:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

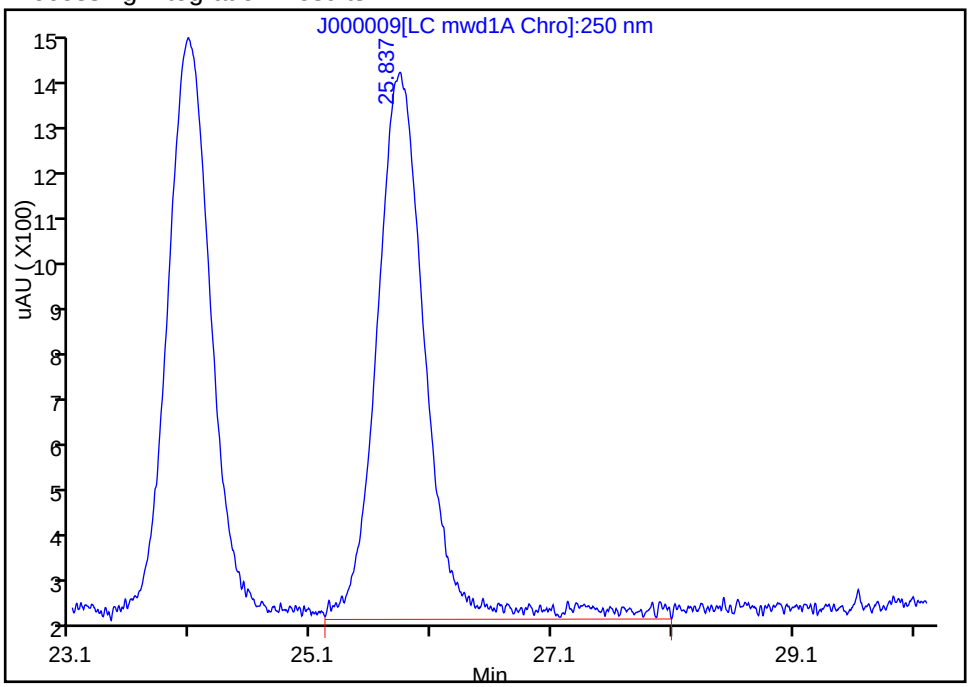
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D				
Injection Date:	11-Mar-2015 17:14:50	Instrument ID:	LC10		
Lims ID:	IC 3				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

8 m-Nitrotoluene, CAS: 99-08-1

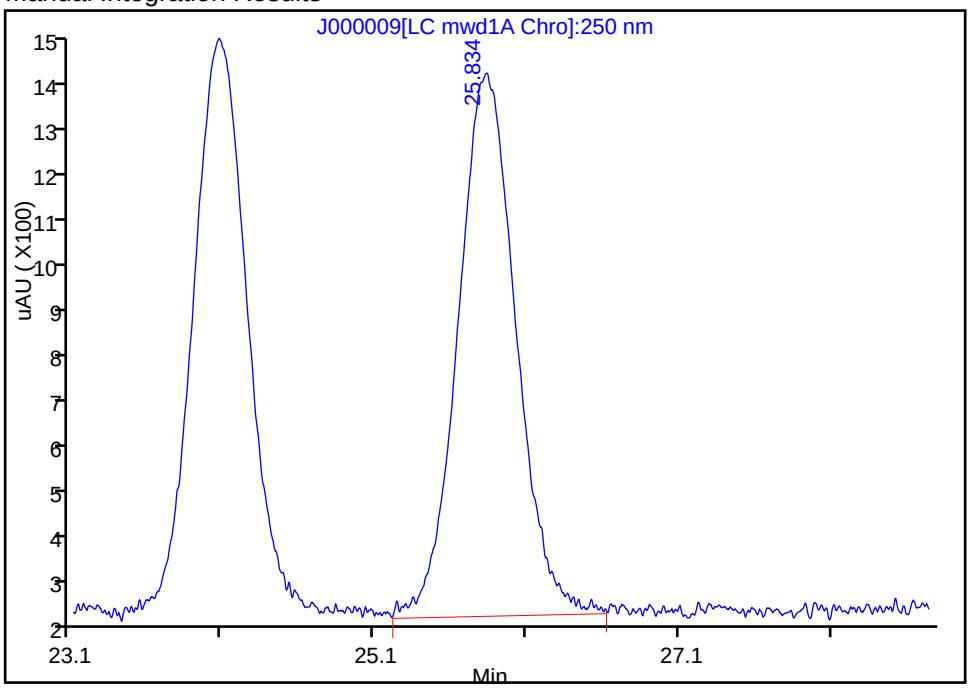
Processing Integration Results

RT: 25.84
Height: 1154
Amount: 19.464216
Amount Units: ng/ml



Manual Integration Results

RT: 25.83
Height: 1146
Amount: 19.353765
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:39:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

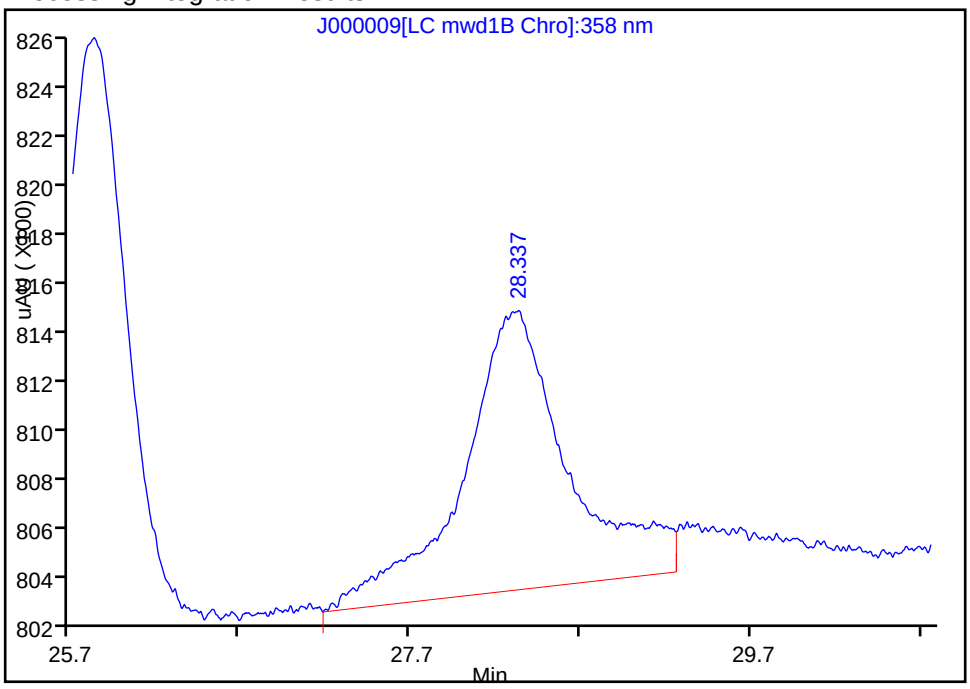
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Injection Date: 11-Mar-2015 17:14:50 Instrument ID: LC10
Lims ID: IC 3
Client ID:
Operator ID: YPH ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

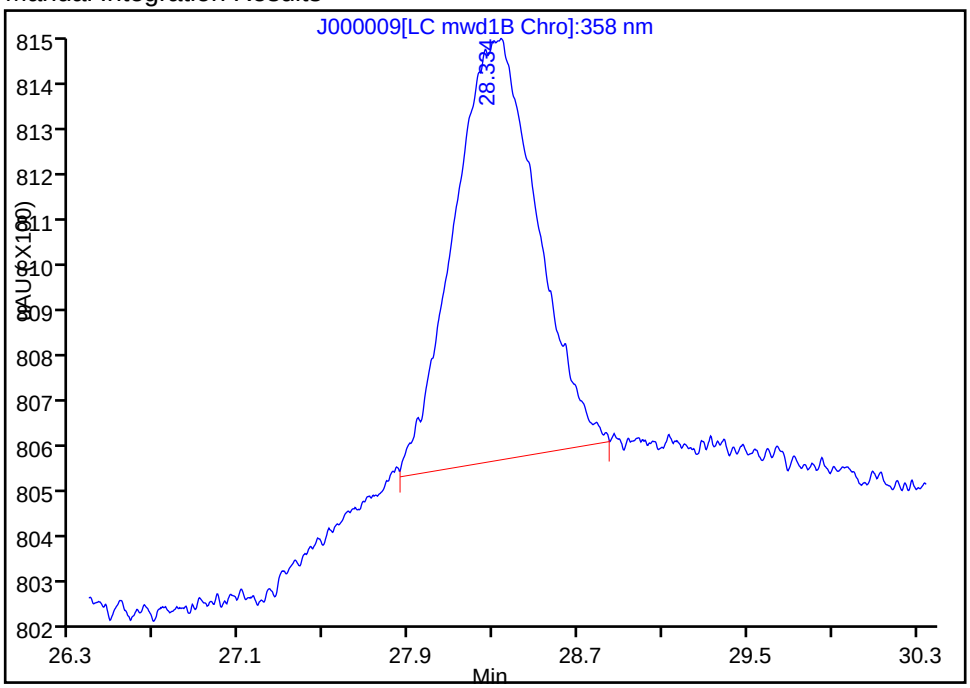
Processing Integration Results

RT: 28.34
Height: 1117
Amount: 19.839941
Amount Units: ng/ml



Manual Integration Results

RT: 28.33
Height: 896
Amount: 20.161563
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:17:06
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Mar-2015 17:58:29 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-007
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:29 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:05

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.149	5.149	0.000	7177H	50.0	48.8	
19 RDX							
1	7.406	7.406	0.000	4986H	50.0	49.2	
3 Ethylene glycol dinitrate							
2	8.056	8.056	0.000	6146H	50.0	50.9	
10 2,4,6-Trinitrophenol							
2	8.579	8.579	0.000	13617H	100.0	104.2	
1	8.579	8.579	0.000	9376H	100.0	102.0	
27 1,3,5-Trinitrobenzene							
1	9.623	9.623	0.000	9519H	50.0	48.9	
24 1,3-Dinitrobenzene							
1	12.209	12.209	0.000	9128H	50.0	48.9	
9 3,5-Dinitroaniline							
1	12.929	12.929	0.000	6028H	50.0	49.0	
20 Tetryl							
1	13.449	13.449	0.000	5358H	50.0	48.3	
5 Nitrobenzene							
1	13.939	13.939	0.000	4080H	50.0	48.3	
7 Nitroglycerin							
2	14.749	14.749	0.000	3741H	50.0	48.8	
25 2,4,6-Trinitrotoluene							
1	15.443	15.443	0.000	5479H	50.0	48.2	
26 4-Amino-2,6-dinitrotoluene							
1	16.093	16.093	0.000	4415H	50.0	48.2	
$ 30 3,4-Dinitrotoluene							M
1	16.539	16.539	0.000	3171H	50.0	47.3	
2	16.539	16.539	0.000	6157H	50.0	45.9	M
6 2-Amino-4,6-dinitrotoluene							
1	16.949	16.949	0.000	4942H	50.0	48.4	
12 2,6-Dinitrotoluene							
1	18.526	18.526	0.000	3473H	50.0	48.3	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.093	19.093	0.000	5738H	50.0	48.5	
16 o-Nitrotoluene							M
1	22.463	22.463	0.000	2479H	50.0	47.3	M
15 p-Nitrotoluene							M
1	24.083	24.083	0.000	3006H	50.0	47.7	M
8 m-Nitrotoluene							M
1	25.843	25.843	0.000	2819H	50.0	47.6	M
21 PETN							M
2	28.309	28.309	0.000	2162H	50.0	48.6	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L4_00024 Amount Added: 1.00 Units: mL

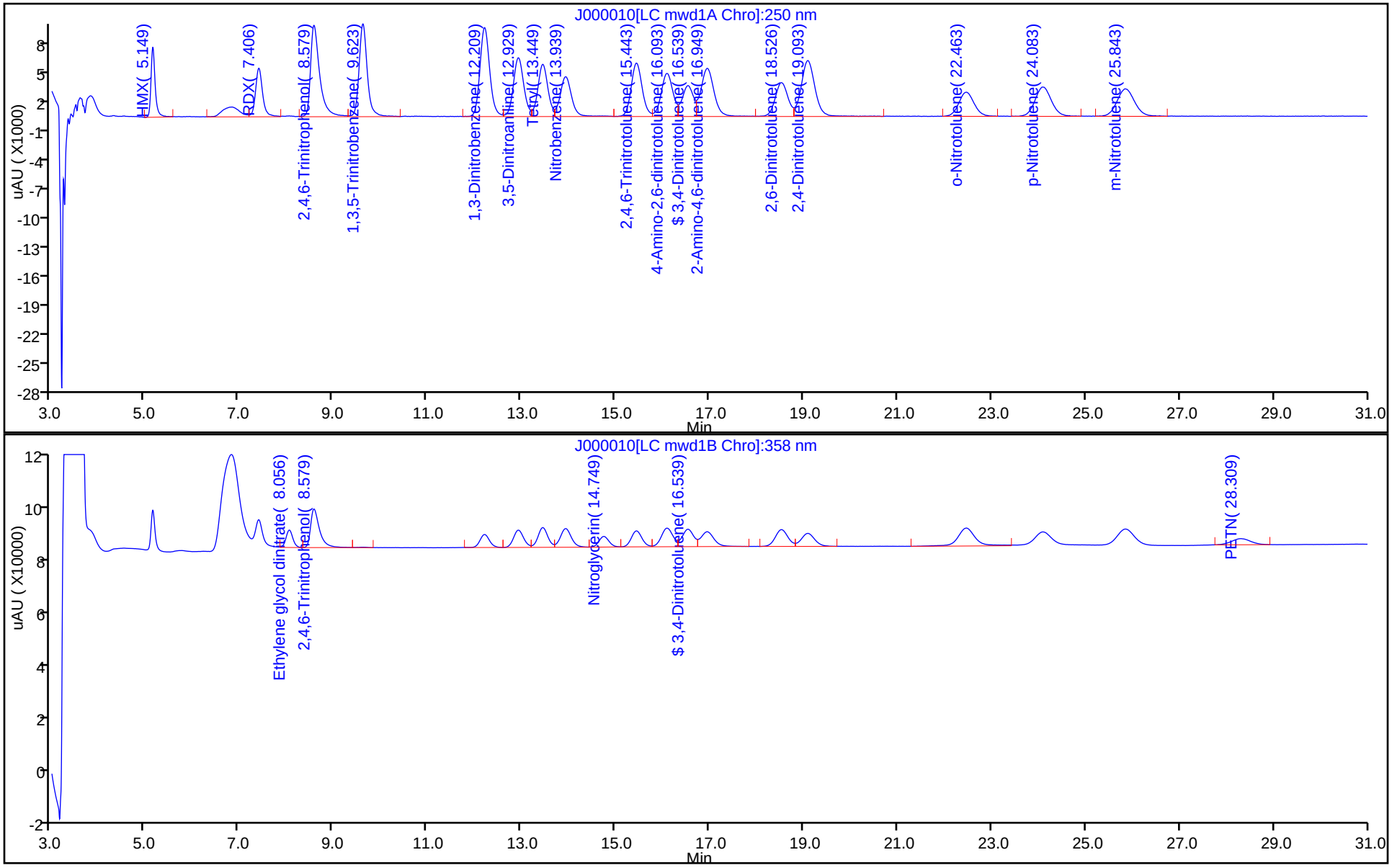
Report Date: 12-Mar-2015 11:12:29 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D

Injection Date:	11-Mar-2015 17:58:29	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

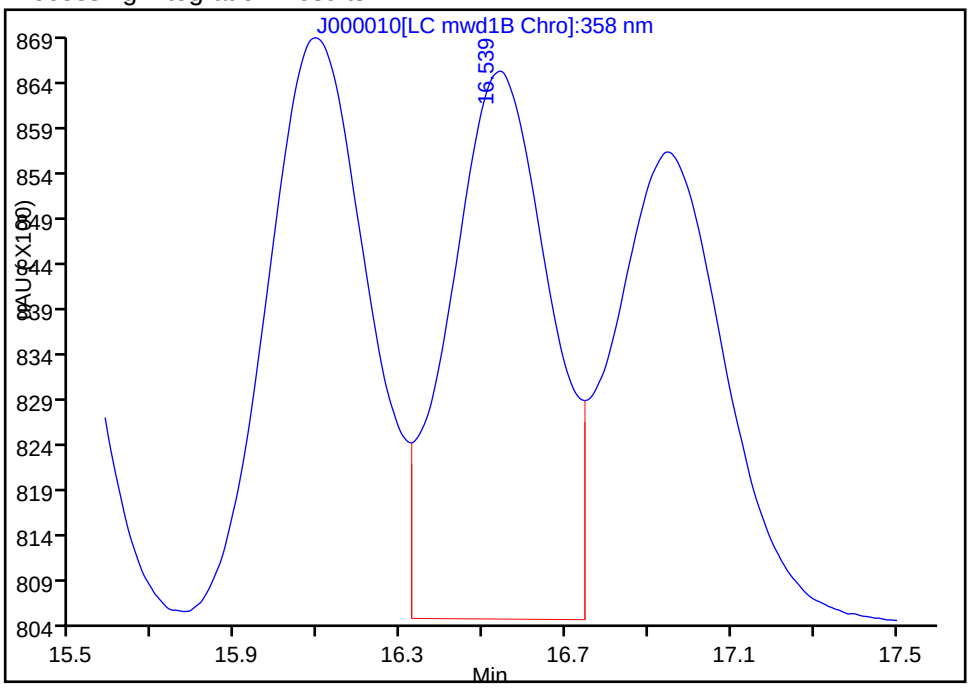
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Injection Date: 11-Mar-2015 17:58:29 Instrument ID: LC10
Lims ID: IC 4
Client ID:
Operator ID: YPH ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

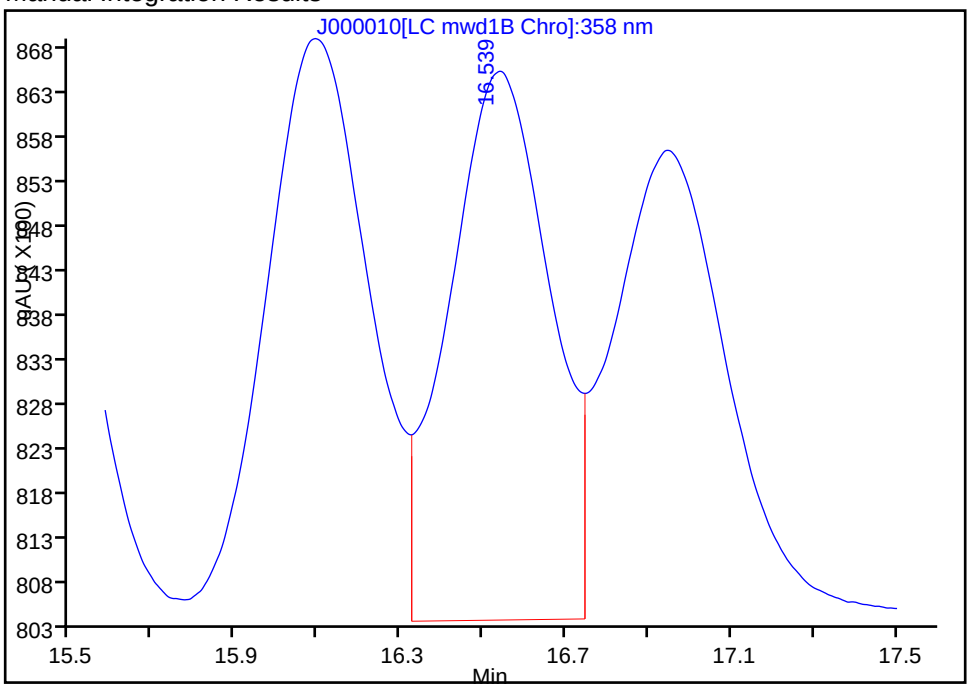
Processing Integration Results

RT: 16.54
Height: 6013
Amount: 44.601531
Amount Units: ng/ml



Manual Integration Results

RT: 16.54
Height: 6157
Amount: 45.855268
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:27:21
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

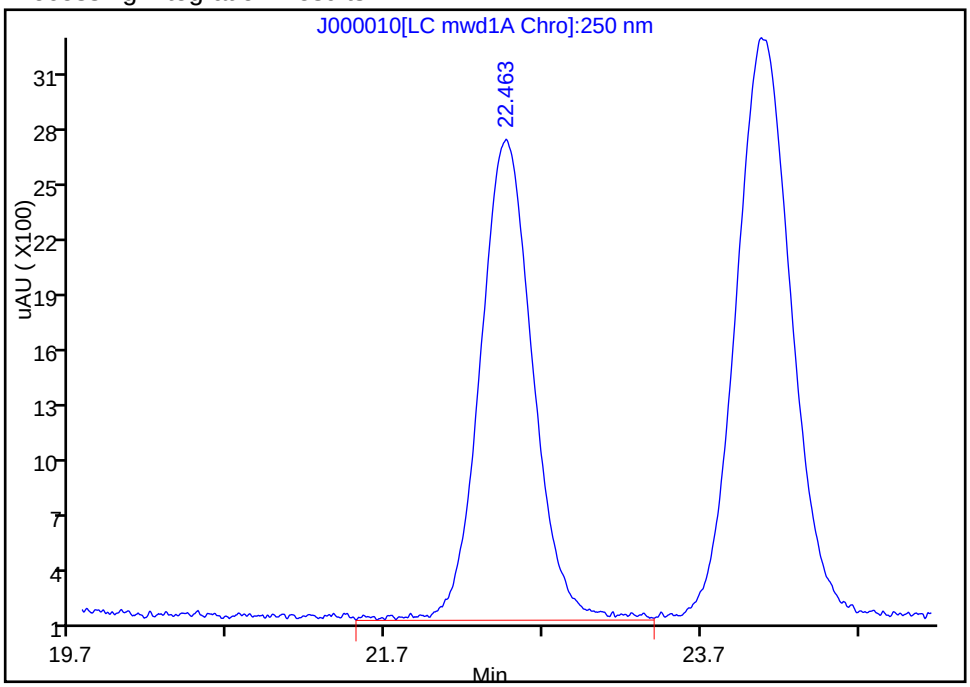
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D				
Injection Date:	11-Mar-2015 17:58:29	Instrument ID:	LC10		
Lims ID:	IC 4				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

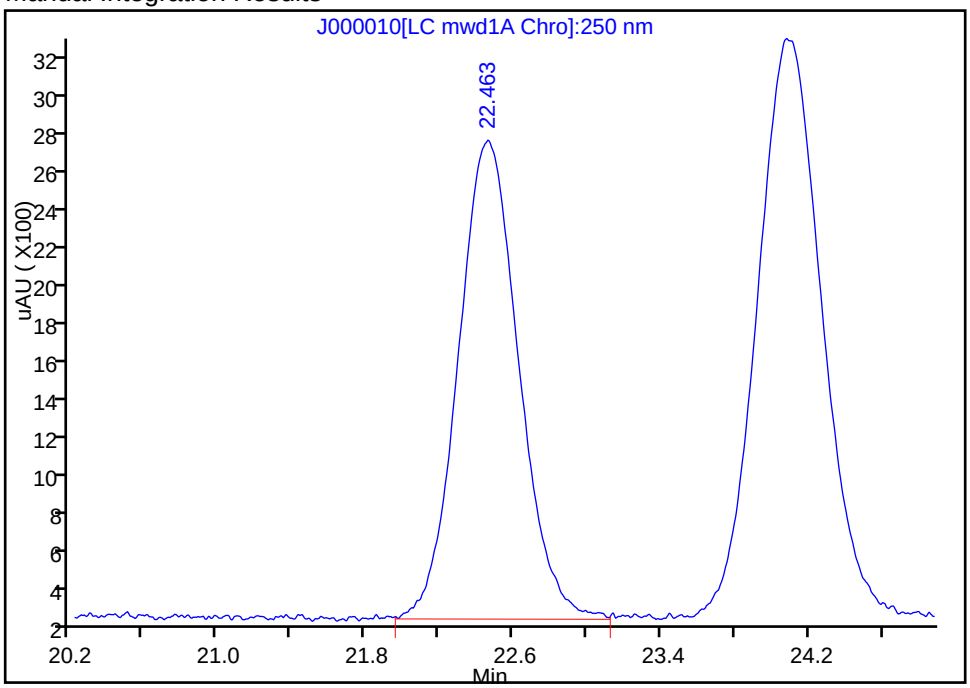
Processing Integration Results

RT: 22.46
Height: 2491
Amount: 47.435873
Amount Units: ng/ml



Manual Integration Results

RT: 22.46
Height: 2479
Amount: 47.303228
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:40:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

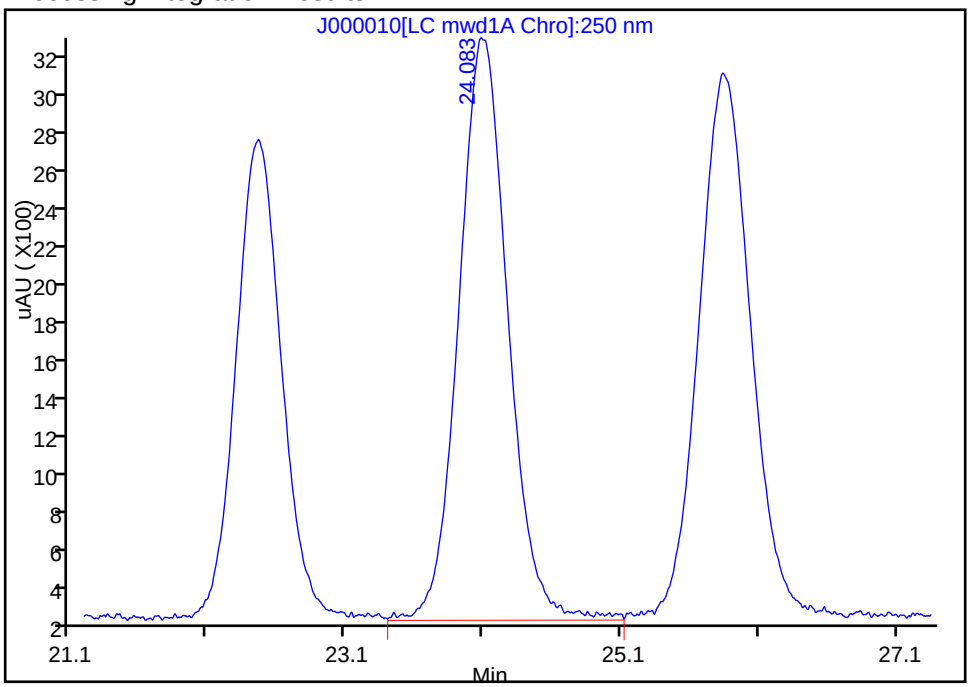
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D				
Injection Date:	11-Mar-2015 17:58:29	Instrument ID:	LC10		
Lims ID:	IC 4				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

15 p-Nitrotoluene, CAS: 99-99-0

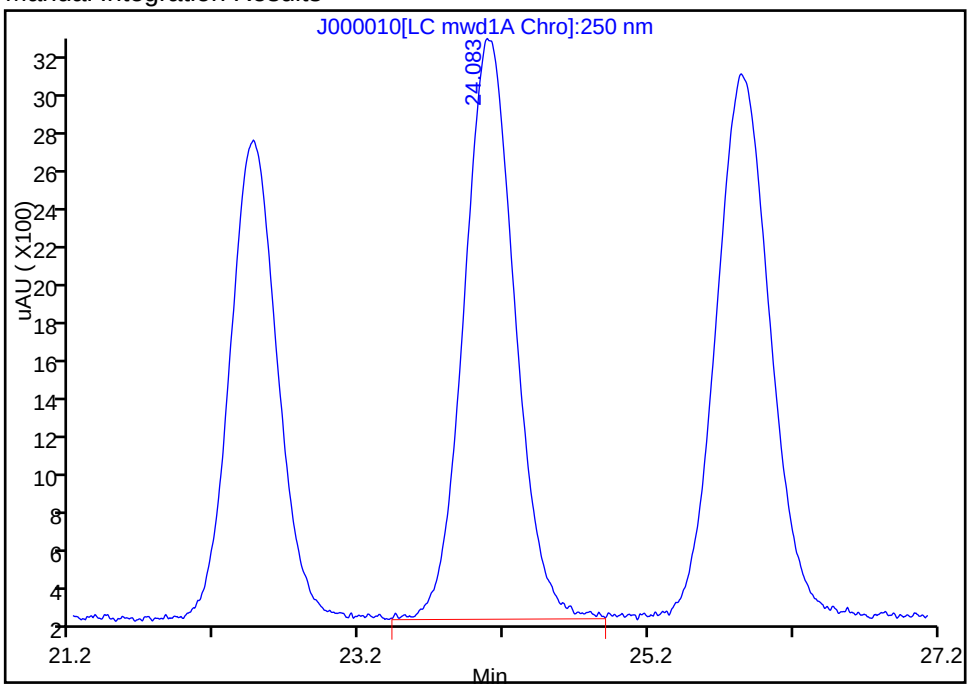
Processing Integration Results

RT: 24.08
Height: 3016
Amount: 49.582412
Amount Units: ng/ml



Manual Integration Results

RT: 24.08
Height: 3006
Amount: 47.746658
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:40:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

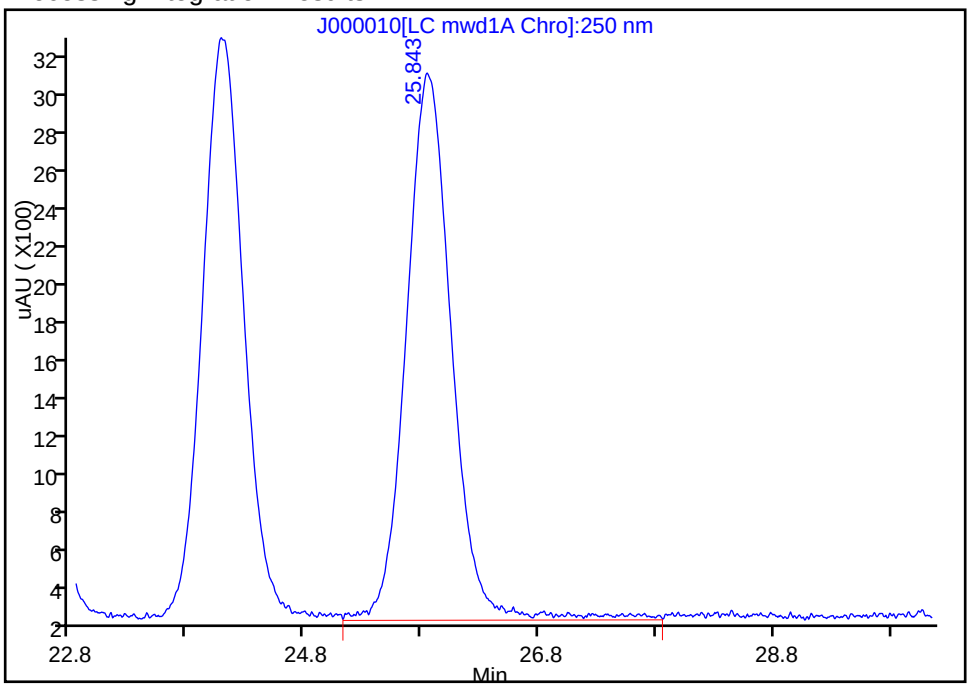
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Injection Date: 11-Mar-2015 17:58:29 Instrument ID: LC10
Lims ID: IC 4
Client ID:
Operator ID: YPH ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

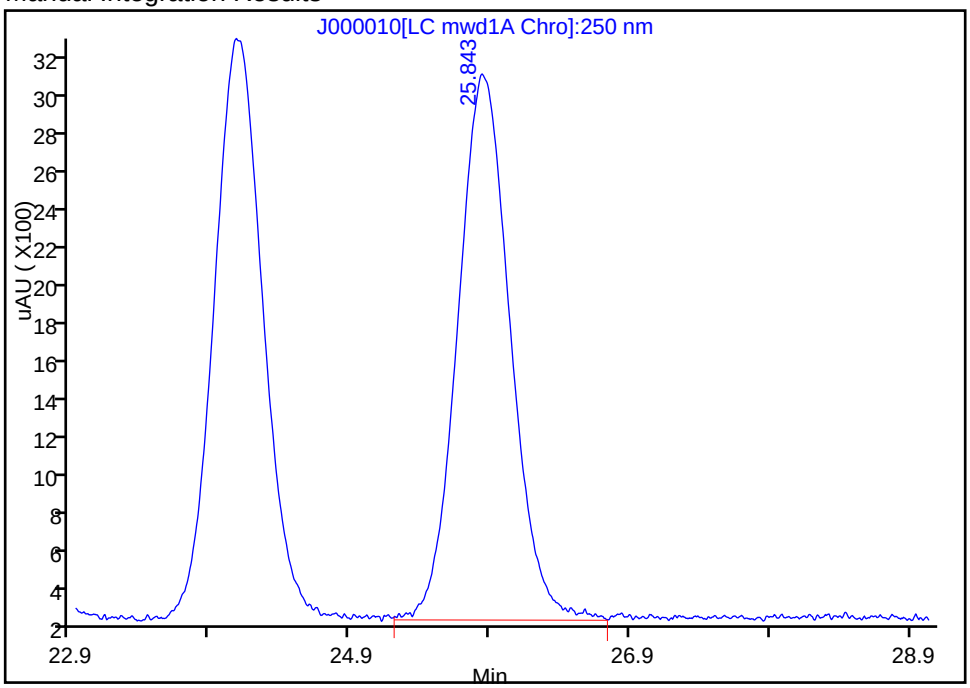
Processing Integration Results

RT: 25.84
Height: 2831
Amount: 47.795802
Amount Units: ng/ml



Manual Integration Results

RT: 25.84
Height: 2819
Amount: 47.607559
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:40:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

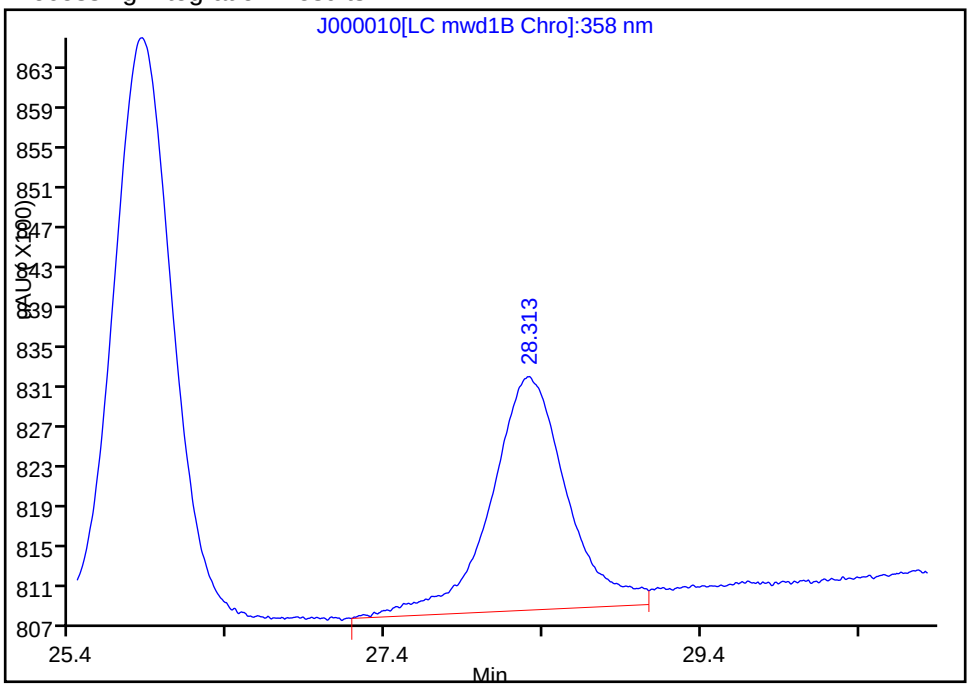
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Injection Date: 11-Mar-2015 17:58:29 Instrument ID: LC10
Lims ID: IC 4
Client ID:
Operator ID: YPH ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

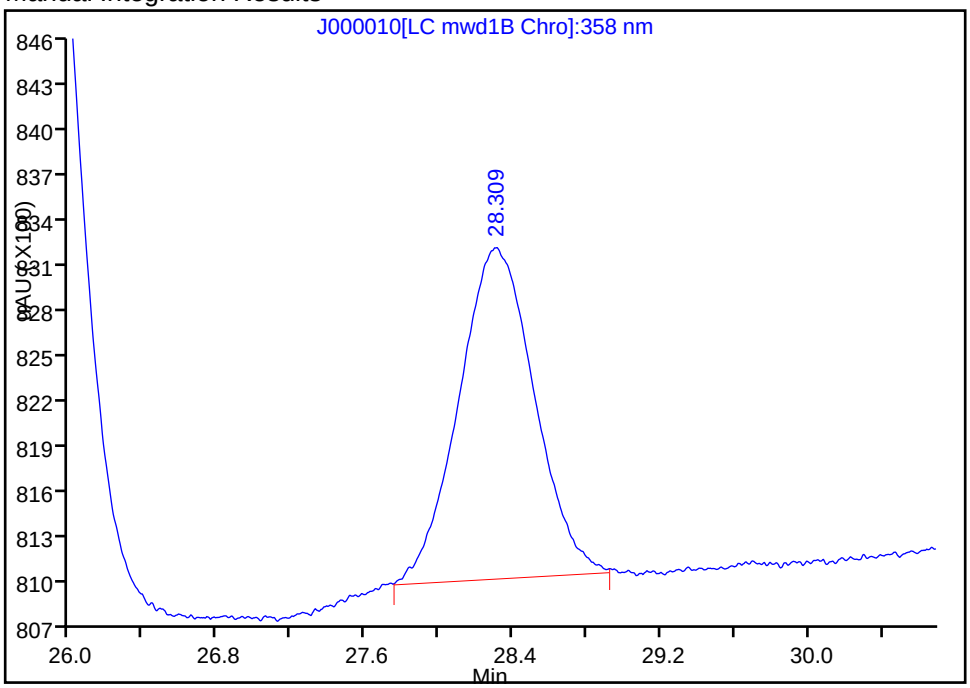
Processing Integration Results

RT: 28.31
Height: 2334
Amount: 42.651950
Amount Units: ng/ml



Manual Integration Results

RT: 28.31
Height: 2162
Amount: 48.648770
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:17:23
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Lims ID: IC 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Mar-2015 18:42:11 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-008
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:31 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:20

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.149	5.149	0.000	14318H	100.0	97.3	
19 RDX							
1	7.405	7.406	-0.001	9720H	100.0	95.9	
3 Ethylene glycol dinitrate							
2	8.055	8.056	-0.001	12364H	100.0	102.5	
10 2,4,6-Trinitrophenol							
2	8.569	8.579	-0.010	27276H	200.0	208.7	
1	8.569	8.579	-0.010	18729H	200.0	203.8	
27 1,3,5-Trinitrobenzene							
1	9.622	9.623	-0.001	18907H	100.0	97.2	
24 1,3-Dinitrobenzene							
1	12.209	12.209	0.000	18138H	100.0	97.1	
9 3,5-Dinitroaniline							
1	12.925	12.929	-0.004	11960H	100.0	97.2	
20 Tetryl							
1	13.445	13.449	-0.004	10725H	100.0	96.6	
5 Nitrobenzene							
1	13.932	13.939	-0.007	8141H	100.0	96.4	
7 Nitroglycerin							
2	14.742	14.749	-0.007	7715H	100.0	100.7	
25 2,4,6-Trinitrotoluene							
1	15.435	15.443	-0.008	10970H	100.0	96.5	
26 4-Amino-2,6-dinitrotoluene							
1	16.082	16.093	-0.011	8819H	100.0	96.4	
$ 30 3,4-Dinitrotoluene							M
1	16.529	16.539	-0.010	6436H	100.0	96.0	
2	16.525	16.539	-0.014	12335H	100.0	91.9	M
6 2-Amino-4,6-dinitrotoluene							
1	16.935	16.949	-0.014	9860H	100.0	96.5	
12 2,6-Dinitrotoluene							
1	18.512	18.526	-0.014	6931H	100.0	96.3	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.079	19.093	-0.014	11442H	100.0	96.7	
16 o-Nitrotoluene							M
1	22.452	22.463	-0.011	4999H	100.0	95.4	M
15 p-Nitrotoluene							M
1	24.089	24.083	0.006	6031H	100.0	95.8	M
8 m-Nitrotoluene							M
1	25.845	25.843	0.002	5605H	100.0	94.7	M
21 PETN							M
2	28.302	28.309	-0.007	4475H	100.0	100.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L5_00033 Amount Added: 1.00 Units: mL

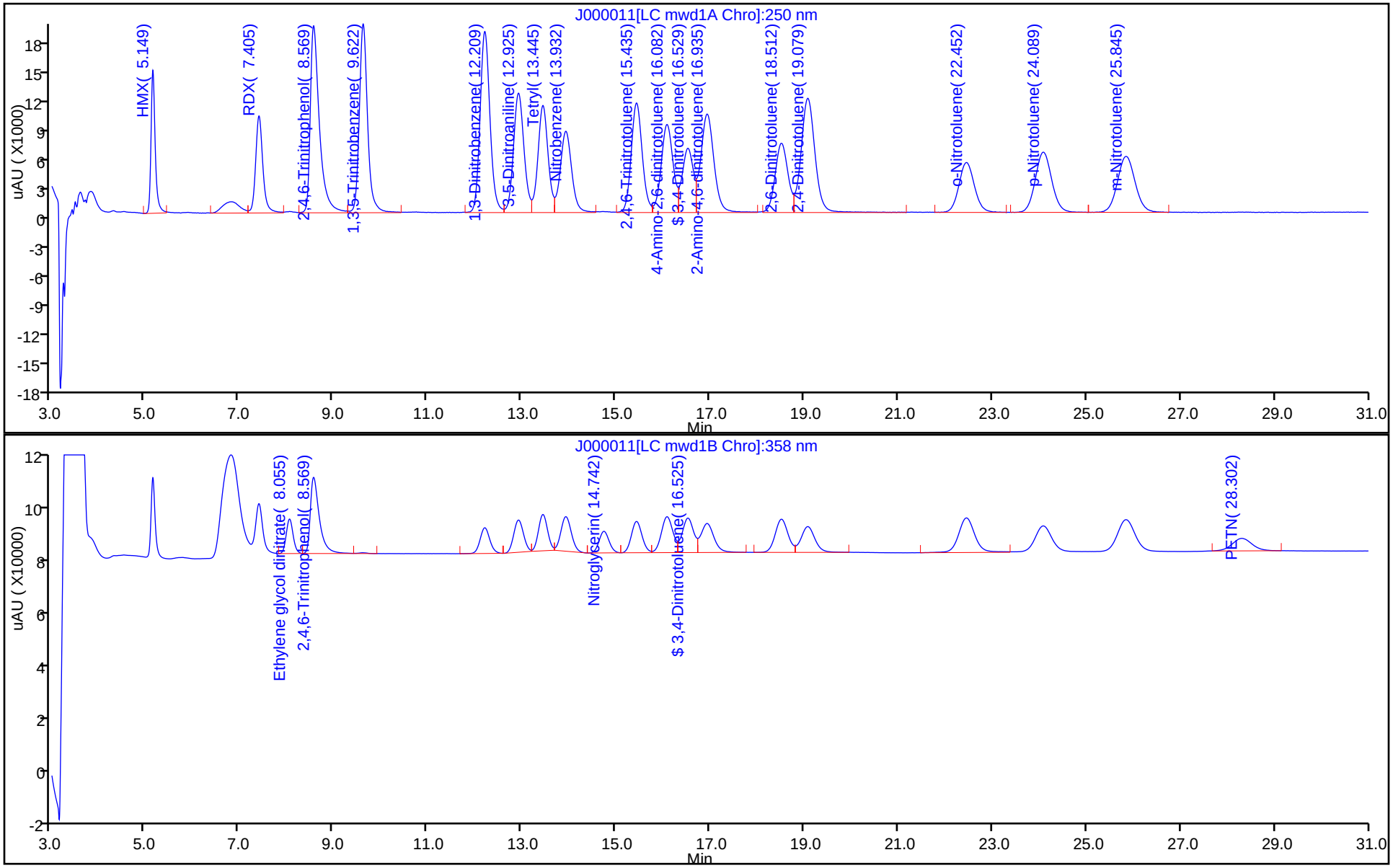
Report Date: 12-Mar-2015 11:12:31 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D

Injection Date:	11-Mar-2015 18:42:11	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 5			Worklist Smp#:	8
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

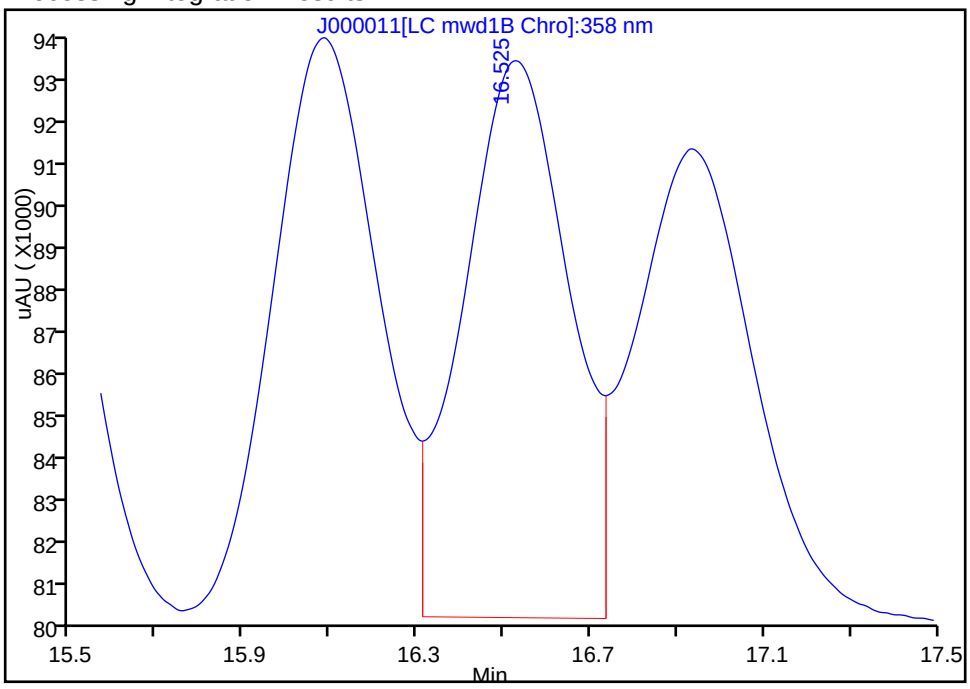
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Injection Date: 11-Mar-2015 18:42:11 Instrument ID: LC10
Lims ID: IC 5
Client ID:
Operator ID: YPH ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

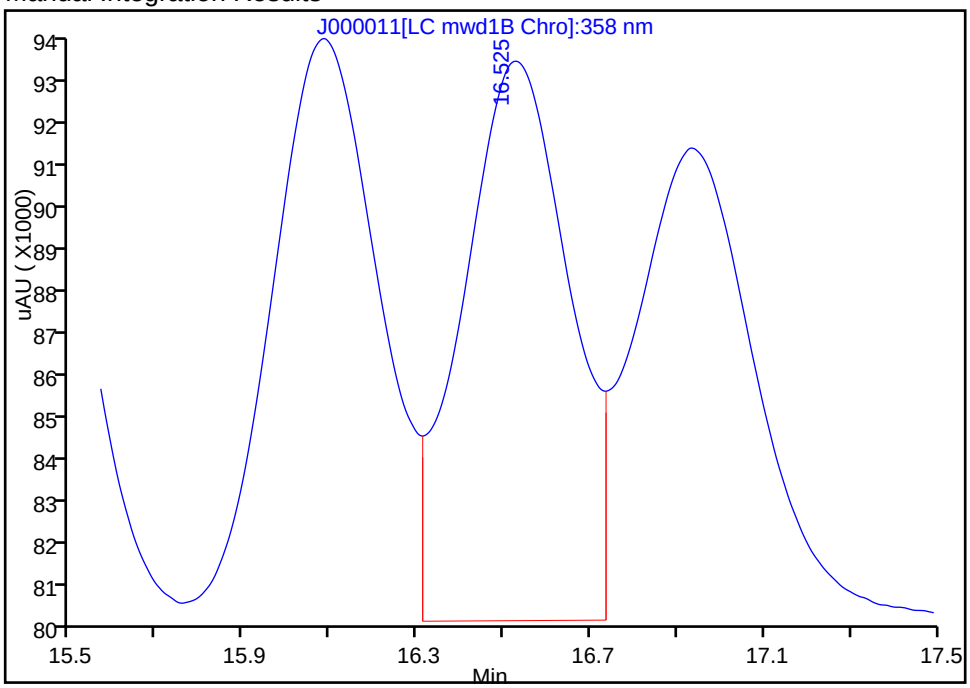
Processing Integration Results

RT: 16.53
Height: 12099
Amount: 89.969533
Amount Units: ng/ml



Manual Integration Results

RT: 16.53
Height: 12335
Amount: 91.866938
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:26:35
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

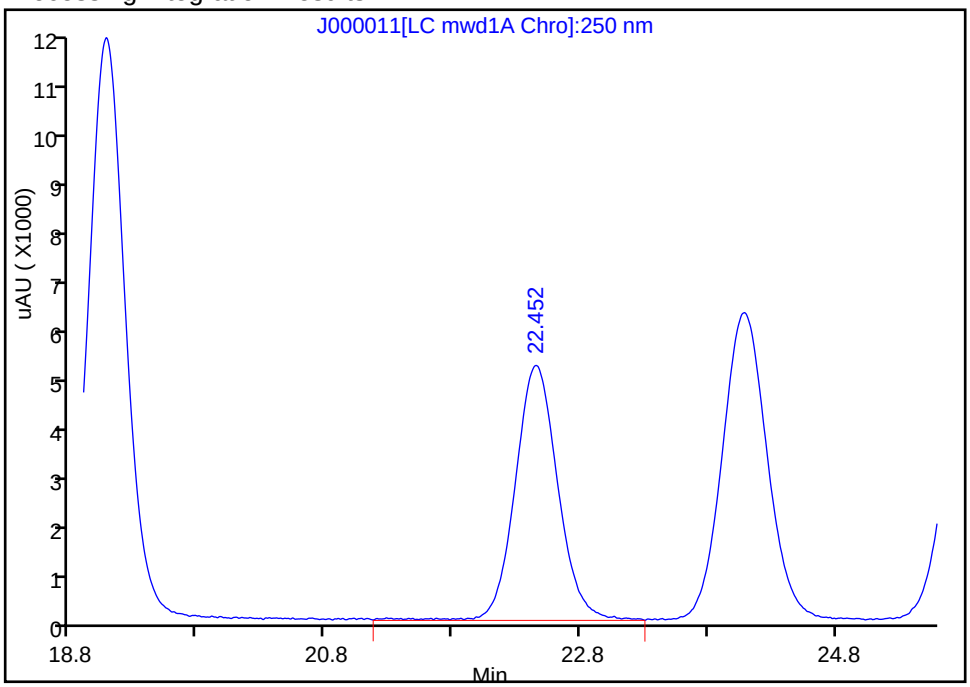
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D				
Injection Date:	11-Mar-2015 18:42:11	Instrument ID:	LC10		
Lims ID:	IC 5				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	7	Worklist Smp#:	8
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

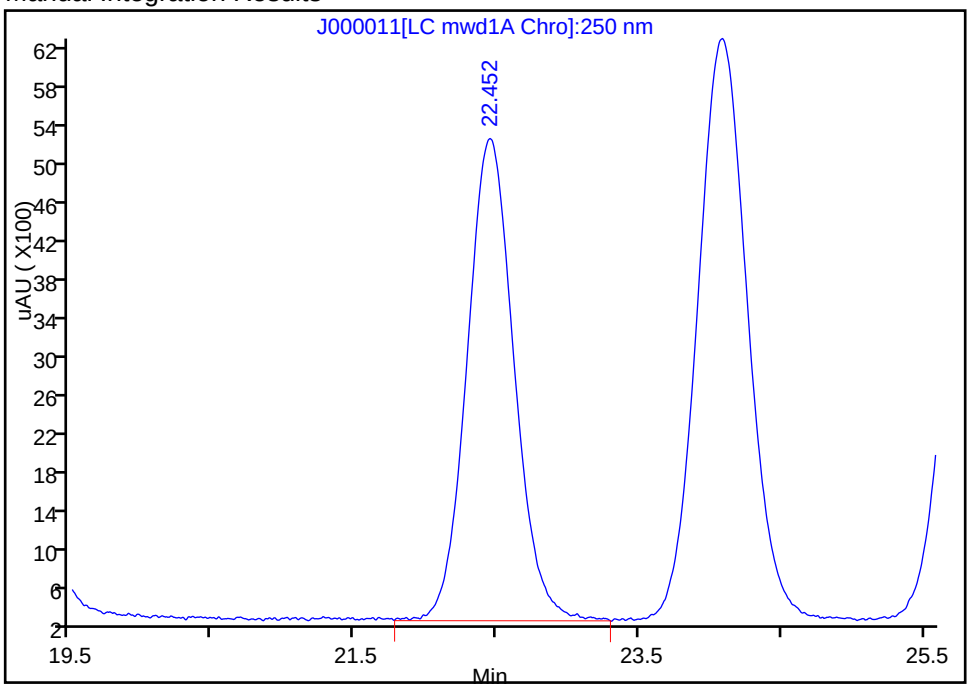
Processing Integration Results

RT: 22.45
Height: 5007
Amount: 95.410112
Amount Units: ng/ml



Manual Integration Results

RT: 22.45
Height: 4999
Amount: 95.388801
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:41:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

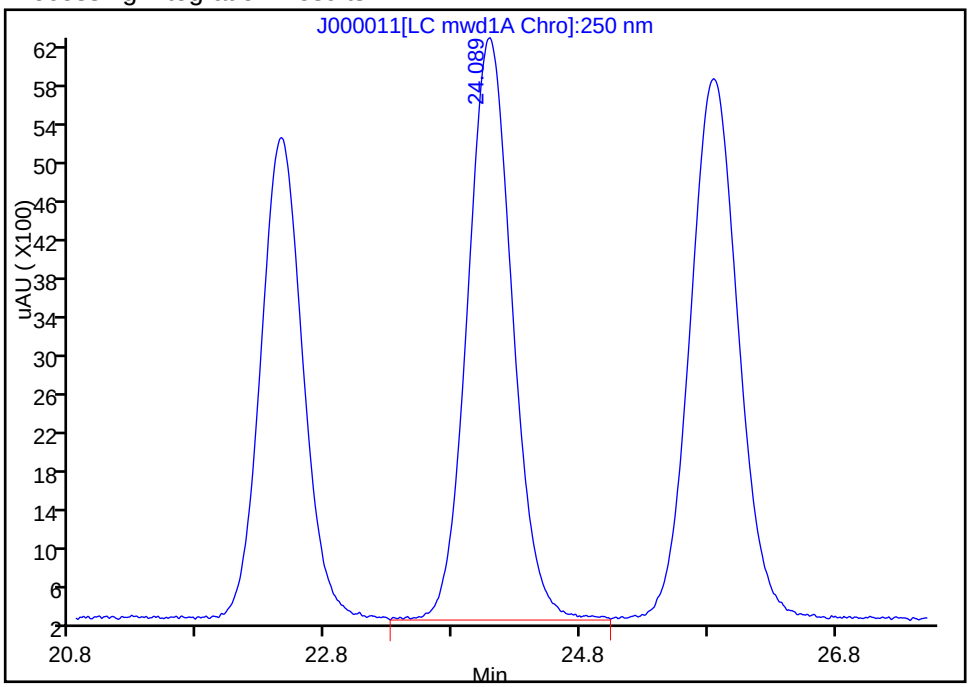
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Injection Date: 11-Mar-2015 18:42:11 Instrument ID: LC10
Lims ID: IC 5
Client ID:
Operator ID: YPH ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

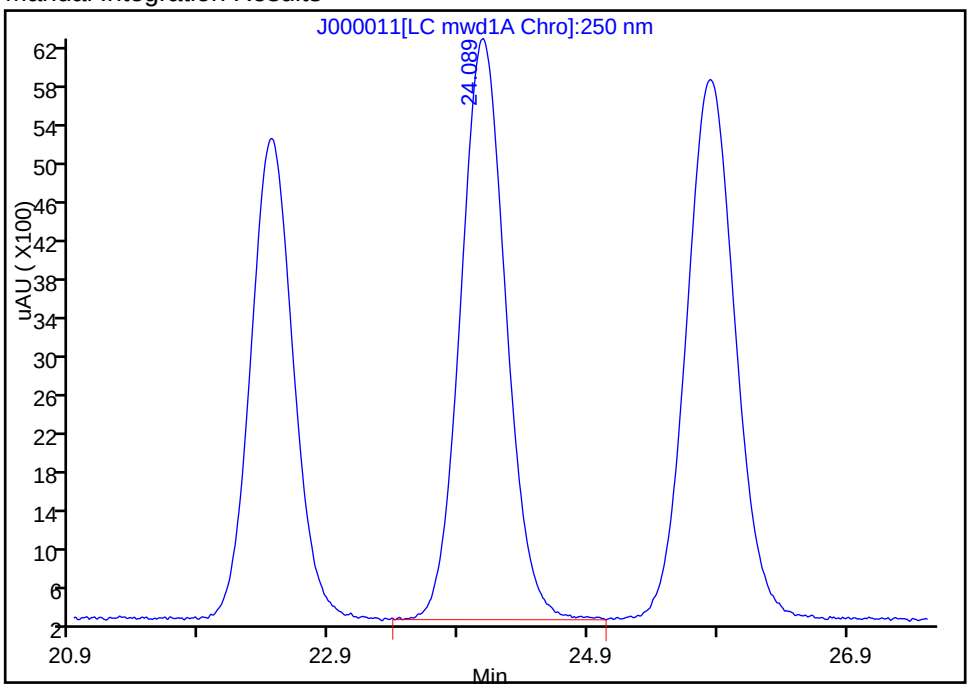
Processing Integration Results

RT: 24.09
Height: 6043
Amount: 100.4476
Amount Units: ng/ml



Manual Integration Results

RT: 24.09
Height: 6031
Amount: 95.795108
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:41:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

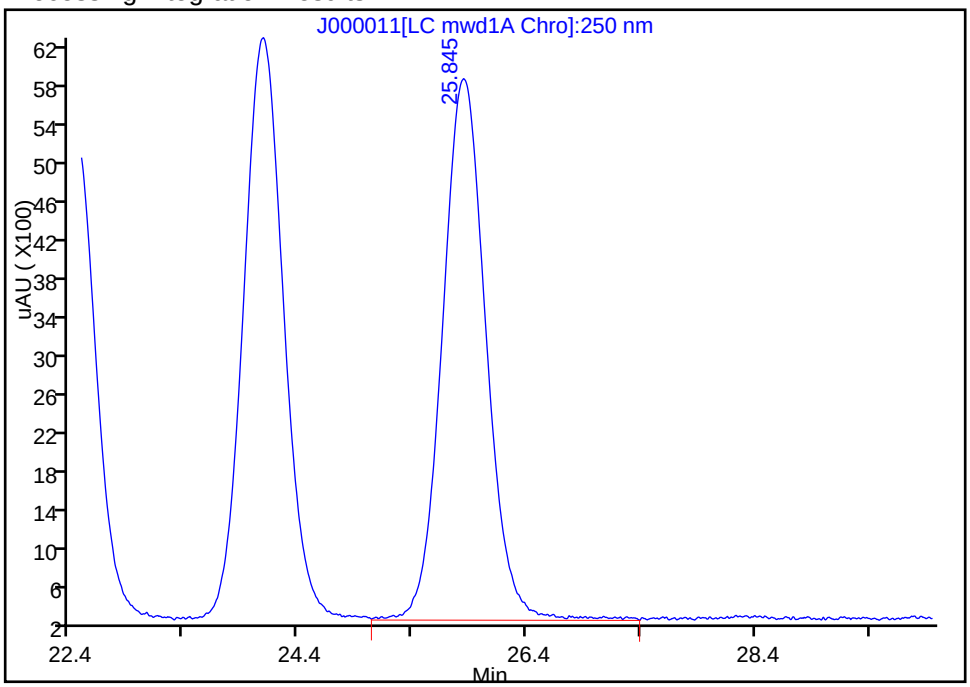
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Injection Date: 11-Mar-2015 18:42:11 Instrument ID: LC10
Lims ID: IC 5
Client ID:
Operator ID: YPH ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

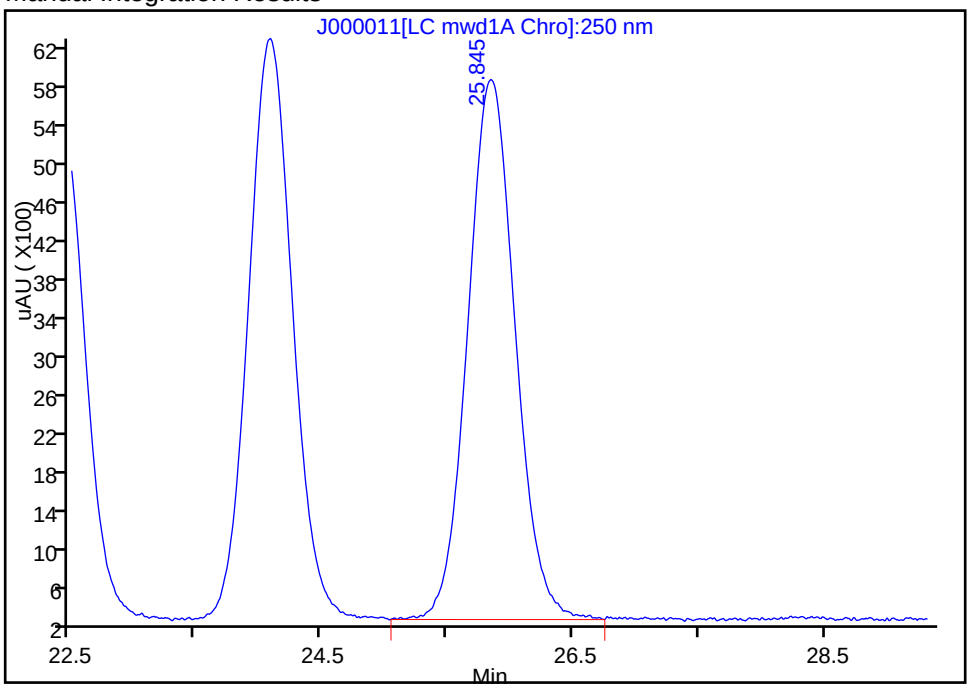
Processing Integration Results

RT: 25.85
Height: 5620
Amount: 94.937473
Amount Units: ng/ml



Manual Integration Results

RT: 25.85
Height: 5605
Amount: 94.657811
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:41:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

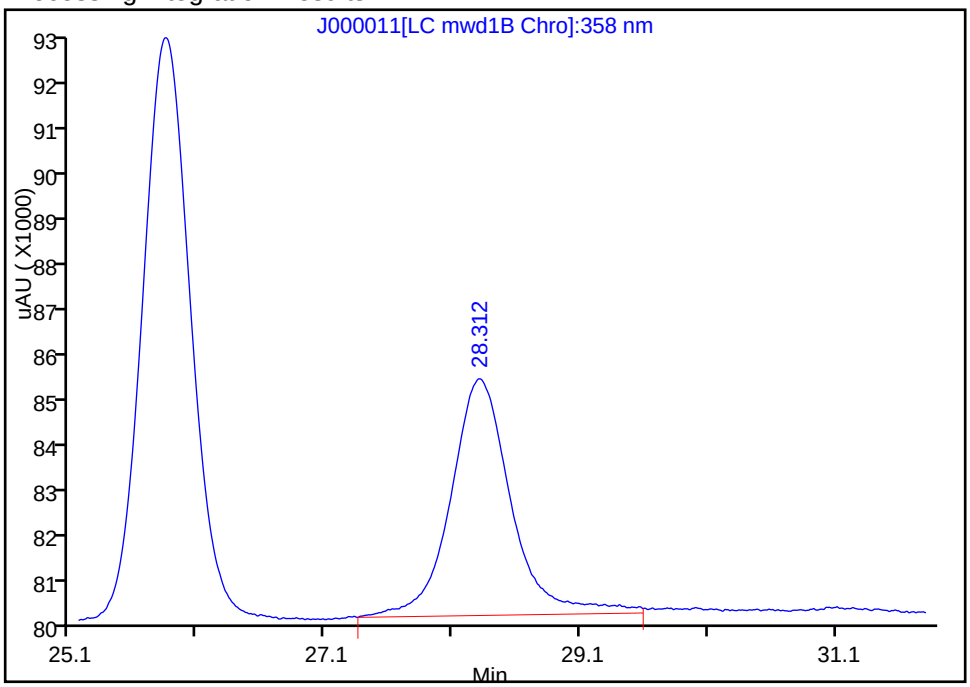
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Injection Date: 11-Mar-2015 18:42:11 Instrument ID: LC10
Lims ID: IC 5
Client ID:
Operator ID: YPH ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

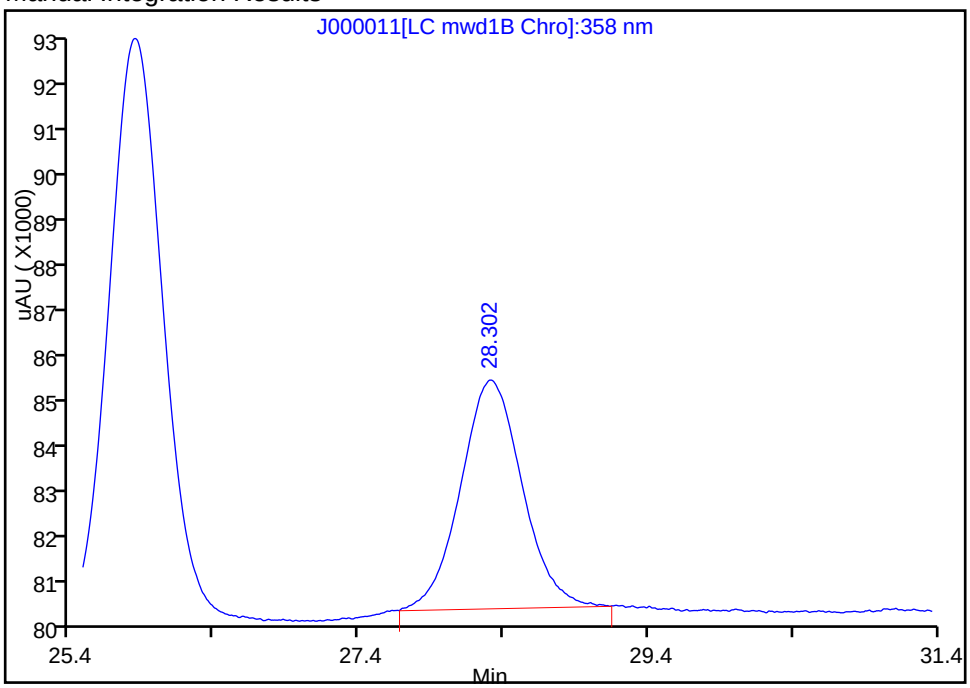
Processing Integration Results

RT: 28.31
Height: 4636
Amount: 85.486837
Amount Units: ng/ml



Manual Integration Results

RT: 28.30
Height: 4475
Amount: 100.6953
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:17:41
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Mar-2015 19:25:50 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-009
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:33 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:26

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.146	5.149	-0.003	30083H	200.0	204.5	
19 RDX							
1	7.396	7.406	-0.010	19940H	200.0	196.7	
3 Ethylene glycol dinitrate							
2	8.046	8.056	-0.010	24901H	200.0	206.4	
10 2,4,6-Trinitrophenol							
2	8.516	8.579	-0.063	66509H	500.0	508.9	
1	8.516	8.579	-0.063	45711H	500.0	497.5	
27 1,3,5-Trinitrobenzene							
1	9.613	9.623	-0.010	39487H	200.0	203.1	
24 1,3-Dinitrobenzene							
1	12.199	12.209	-0.010	37596H	200.0	201.2	
9 3,5-Dinitroaniline							
1	12.919	12.929	-0.010	24823H	200.0	201.8	
20 Tetryl							
1	13.449	13.449	0.000	22719H	200.0	204.7	
5 Nitrobenzene							
1	13.926	13.939	-0.013	16923H	200.0	200.3	
7 Nitroglycerin							
2	14.746	14.749	-0.003	15758H	200.0	205.6	
25 2,4,6-Trinitrotoluene							
1	15.443	15.443	0.000	23139H	200.0	203.6	
26 4-Amino-2,6-dinitrotoluene							
1	16.089	16.093	-0.004	18462H	200.0	201.7	
$ 30 3,4-Dinitrotoluene							M
1	16.536	16.539	-0.003	13272H	200.0	198.0	
2	16.536	16.539	-0.003	25174H	200.0	187.5	M
6 2-Amino-4,6-dinitrotoluene							
1	16.943	16.949	-0.006	20645H	200.0	202.1	
12 2,6-Dinitrotoluene							
1	18.526	18.526	0.000	14572H	200.0	202.6	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.086	19.093	-0.007	24077H	200.0	203.6	
16 o-Nitrotoluene							M
1	22.459	22.463	-0.004	10552H	200.0	201.3	M
15 p-Nitrotoluene							M
1	24.093	24.083	0.010	12795H	200.0	203.2	M
8 m-Nitrotoluene							M
1	25.853	25.843	0.010	11941H	200.0	201.7	M
21 PETN							M
2	28.326	28.309	0.017	9185H	200.0	206.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L6_00027 Amount Added: 1.00 Units: mL

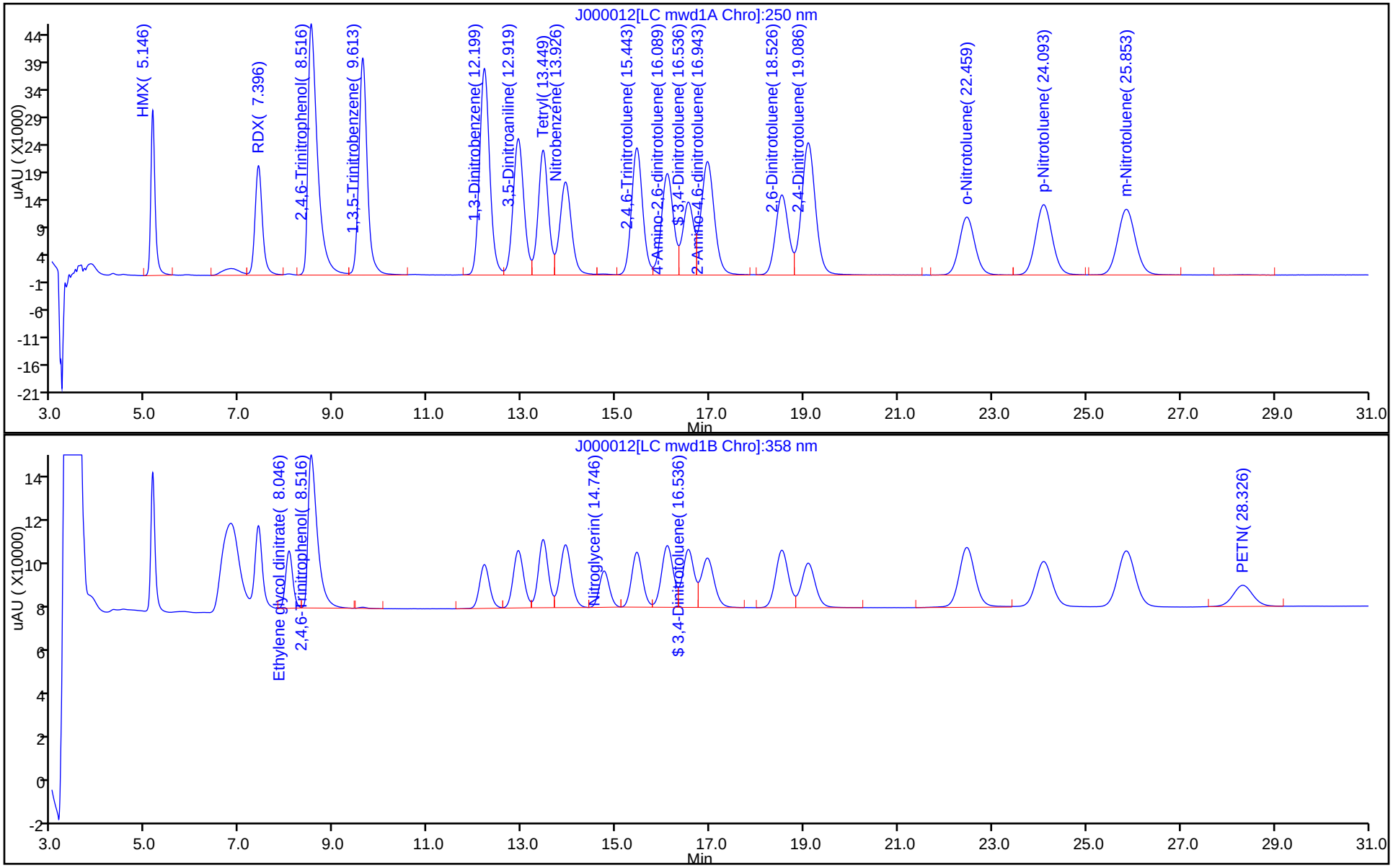
Report Date: 12-Mar-2015 11:12:34 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D

Injection Date:	11-Mar-2015 19:25:50	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

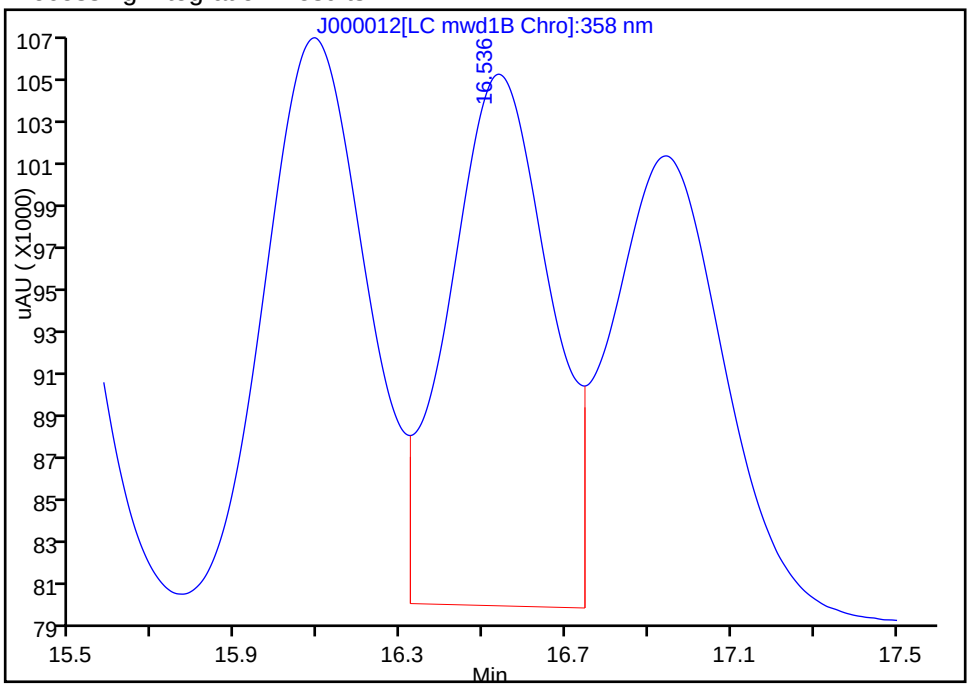
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Injection Date: 11-Mar-2015 19:25:50 Instrument ID: LC10
Lims ID: IC 6
Client ID:
Operator ID: YPH ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

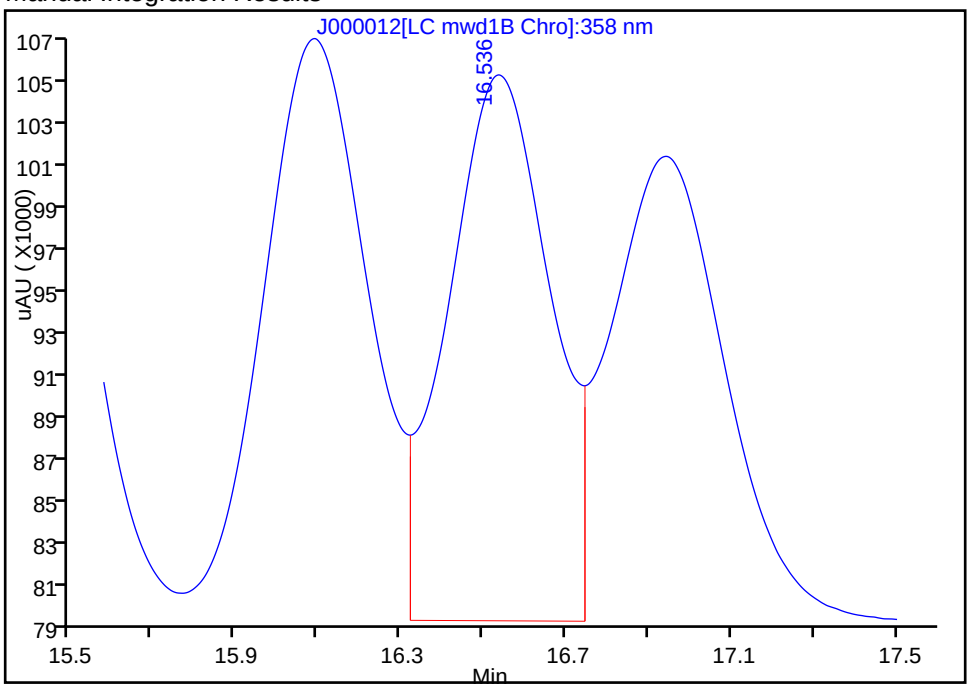
Processing Integration Results

RT: 16.54
Height: 24439
Amount: 183.3036
Amount Units: ng/ml



Manual Integration Results

RT: 16.54
Height: 25174
Amount: 187.4875
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:25:31
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

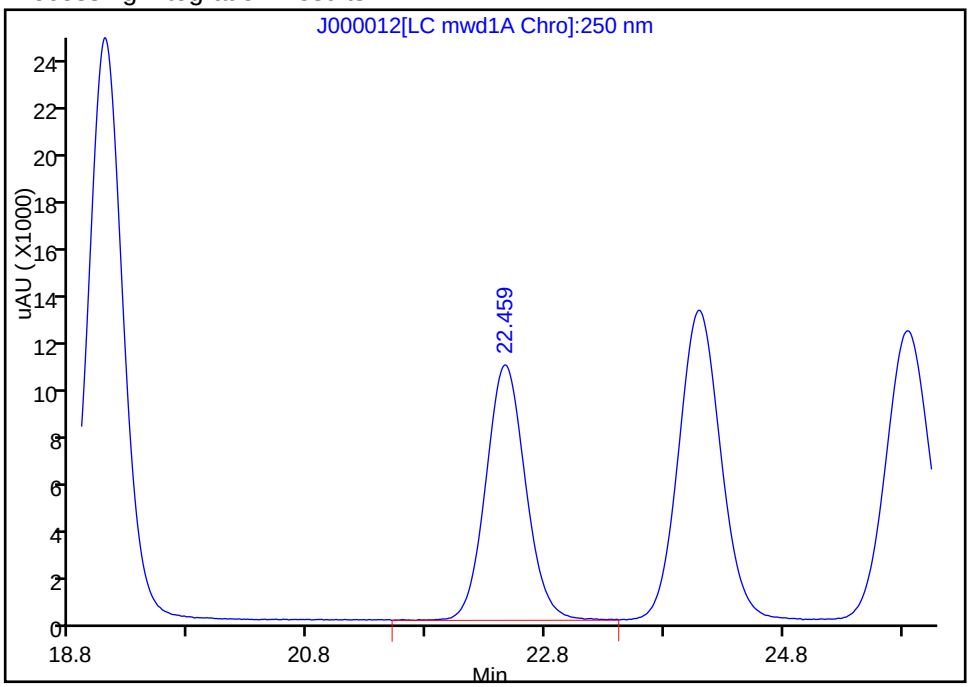
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Injection Date: 11-Mar-2015 19:25:50 Instrument ID: LC10
Lims ID: IC 6
Client ID:
Operator ID: YPH ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

16 o-Nitrotoluene, CAS: 88-72-2

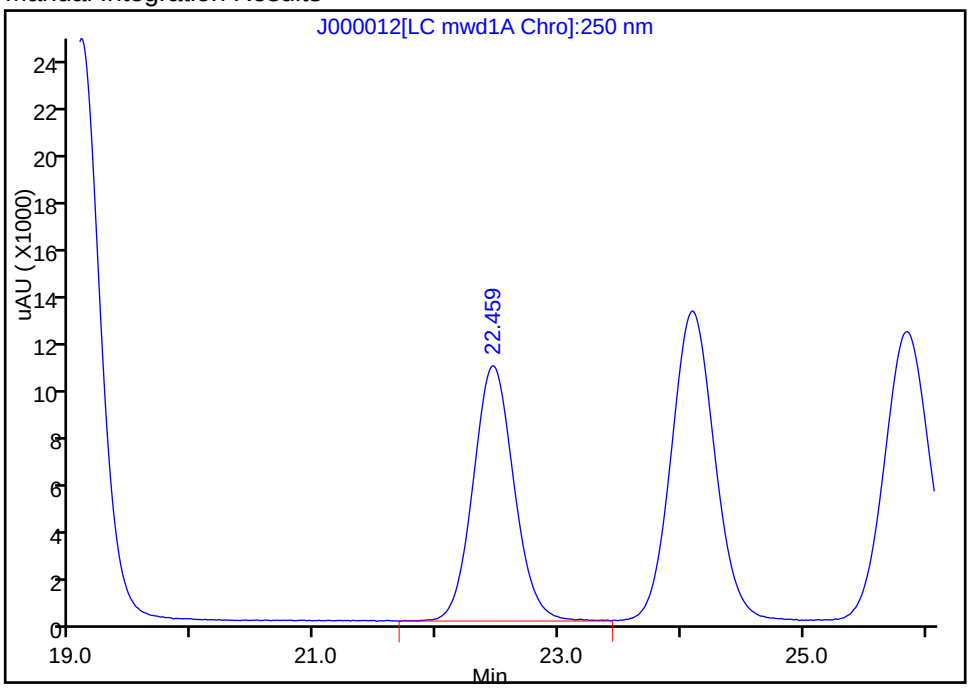
Processing Integration Results

RT: 22.46
Height: 10557
Amount: 201.2111
Amount Units: ng/ml



Manual Integration Results

RT: 22.46
Height: 10552
Amount: 201.3488
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:42:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

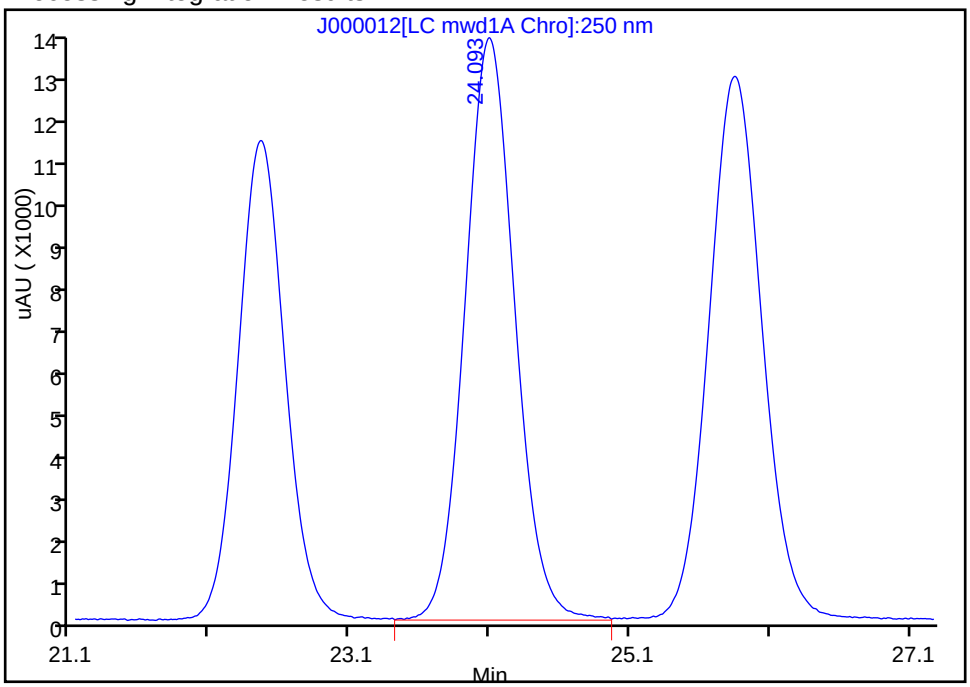
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Injection Date: 11-Mar-2015 19:25:50 Instrument ID: LC10
Lims ID: IC 6
Client ID:
Operator ID: YPH ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

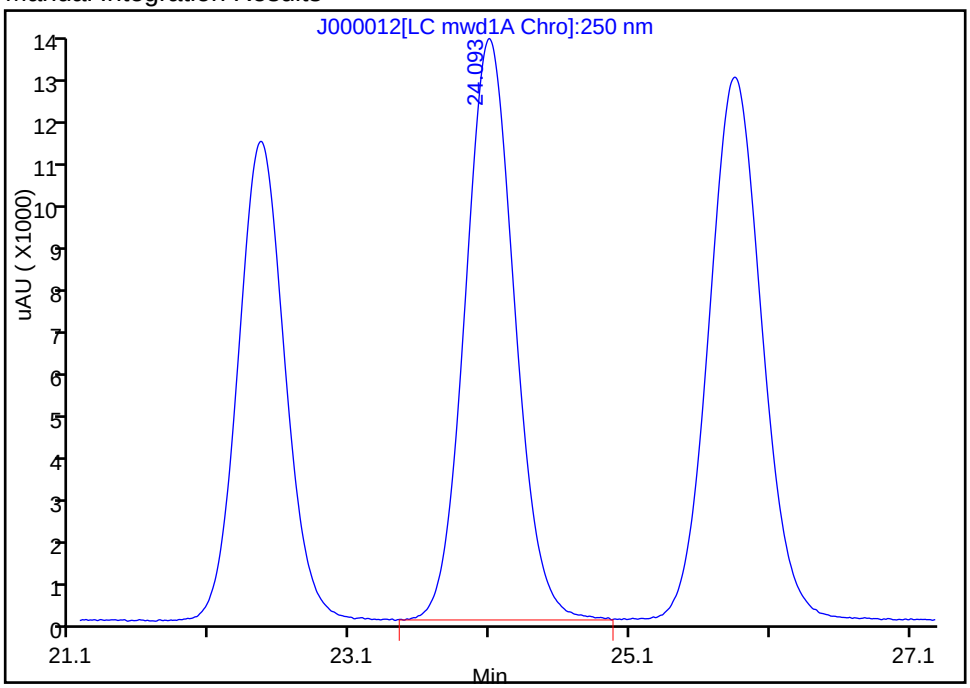
Processing Integration Results

RT: 24.09
Height: 12816
Amount: 214.2850
Amount Units: ng/ml



Manual Integration Results

RT: 24.09
Height: 12795
Amount: 203.2330
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:42:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

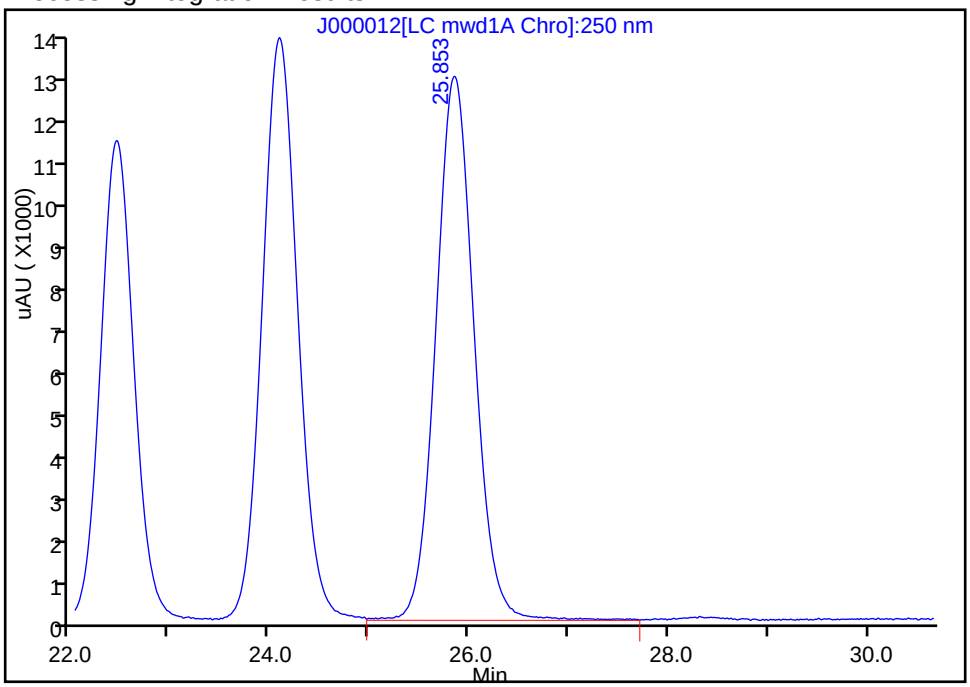
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D				
Injection Date:	11-Mar-2015 19:25:50	Instrument ID:	LC10		
Lims ID:	IC 6				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

8 m-Nitrotoluene, CAS: 99-08-1

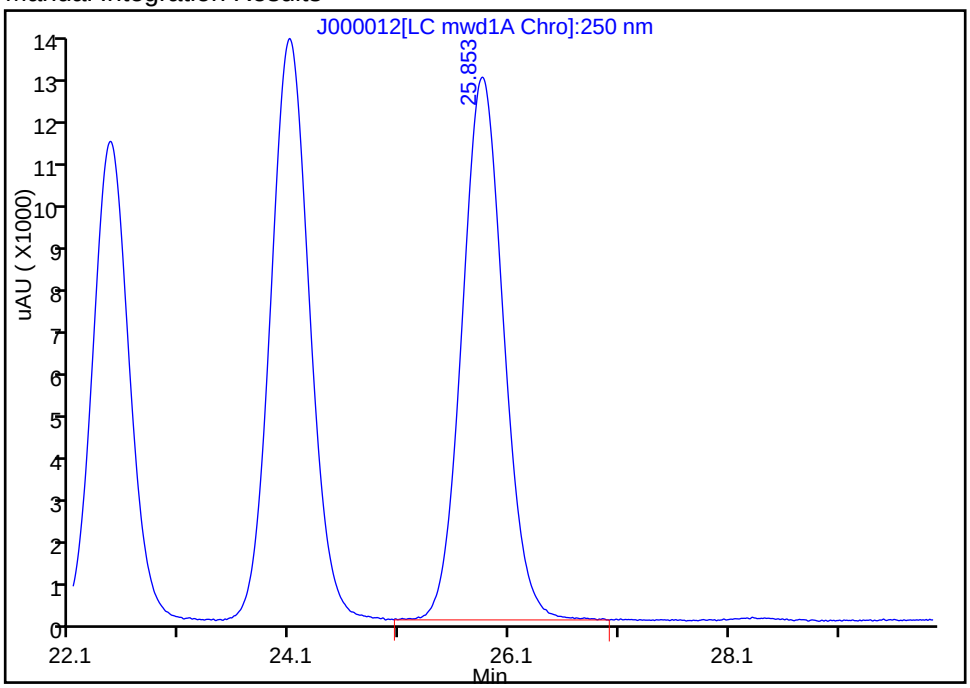
Processing Integration Results

RT: 25.85
Height: 11968
Amount: 202.2461
Amount Units: ng/ml



Manual Integration Results

RT: 25.85
Height: 11941
Amount: 201.6608
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:42:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

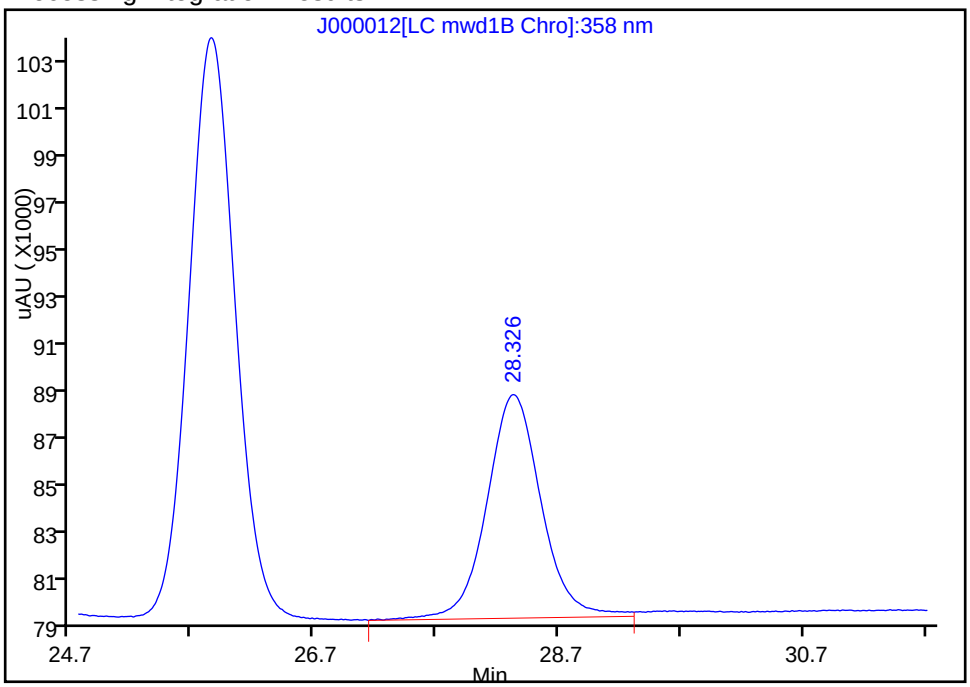
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Injection Date: 11-Mar-2015 19:25:50 Instrument ID: LC10
Lims ID: IC 6
Client ID:
Operator ID: YPH ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

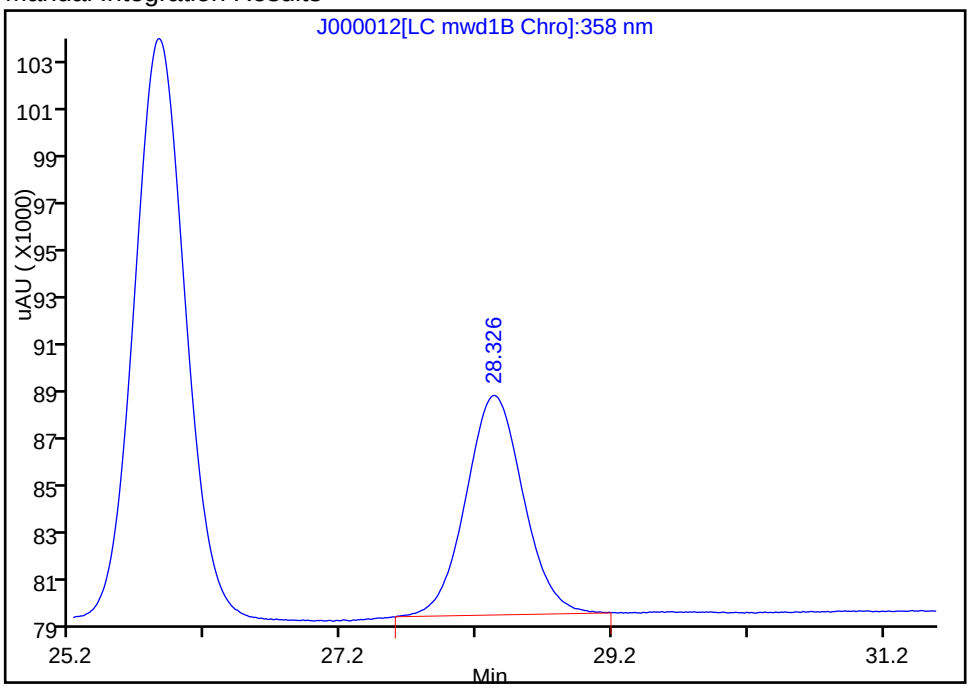
Processing Integration Results

RT: 28.33
Height: 9352
Amount: 173.1834
Amount Units: ng/ml



Manual Integration Results

RT: 28.33
Height: 9185
Amount: 206.6785
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:18:03
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Mar-2015 20:09:31 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-010
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:35 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:32

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.137	5.149	-0.012	66359H	500.0	451.1	
19 RDX							M
1	7.377	7.406	-0.029	41667H	500.0	411.0	M
3 Ethylene glycol dinitrate							
2	8.030	8.056	-0.026	52920H	500.0	438.5	
10 2,4,6-Trinitrophenol							
2	8.460	8.579	-0.119	117189H	1000.0	896.8	
1	8.460	8.579	-0.119	81577H	1000.0	887.9	
27 1,3,5-Trinitrobenzene							
1	9.597	9.623	-0.026	86016H	500.0	442.3	
24 1,3-Dinitrobenzene							
1	12.180	12.209	-0.029	81195H	500.0	434.6	
9 3,5-Dinitroaniline							
1	12.900	12.929	-0.029	53588H	500.0	435.6	
20 Tetryl							
1	13.434	13.449	-0.015	51470H	500.0	463.7	
5 Nitrobenzene							
1	13.904	13.939	-0.035	36745H	500.0	435.0	
7 Nitroglycerin							
2	14.727	14.749	-0.022	36154H	500.0	471.8	
25 2,4,6-Trinitrotoluene							
1	15.424	15.443	-0.019	52174H	500.0	459.1	
26 4-Amino-2,6-dinitrotoluene							
1	16.064	16.093	-0.029	40901H	500.0	446.9	
$ 30 3,4-Dinitrotoluene							M
1	16.517	16.539	-0.022	30678H	500.0	457.6	
2	16.517	16.539	-0.022	57741H	500.0	430.0	M
6 2-Amino-4,6-dinitrotoluene							
1	16.914	16.949	-0.035	45793H	500.0	448.4	
12 2,6-Dinitrotoluene							
1	18.497	18.526	-0.029	32681H	500.0	454.3	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.057	19.093	-0.036	53961H	500.0	456.2	
16 o-Nitrotoluene							
1	22.424	22.463	-0.039	23683H	500.0	451.9	
15 p-Nitrotoluene							
1	24.057	24.083	-0.026	28823H	500.0	457.8	
8 m-Nitrotoluene							
1	25.817	25.843	-0.026	27029H	500.0	456.5	
21 PETN							M
2	28.304	28.309	-0.005	21745H	500.0	489.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L7_00018 Amount Added: 1.00 Units: mL

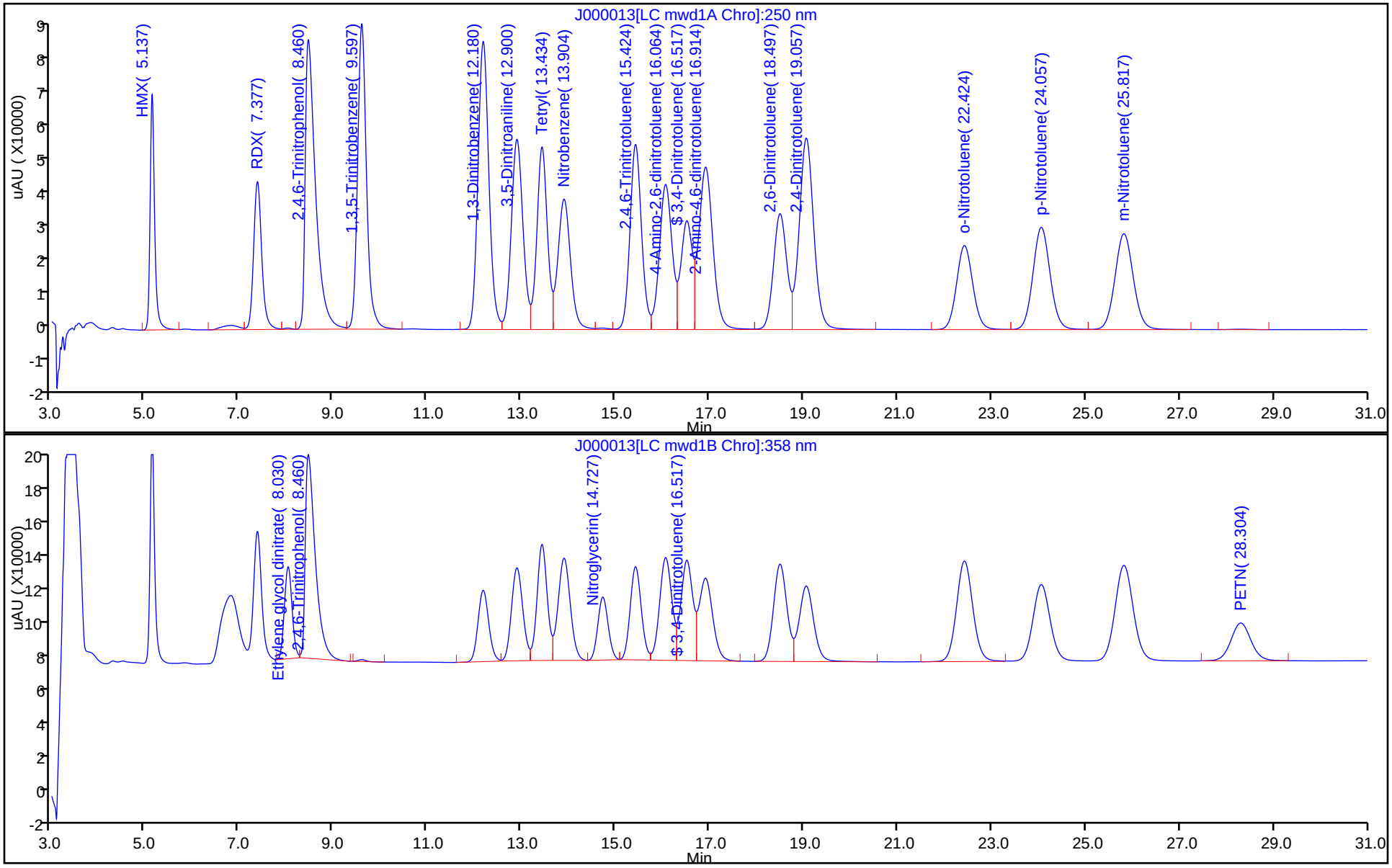
Report Date: 12-Mar-2015 11:12:36 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Injection Date:	11-Mar-2015 20:09:31	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

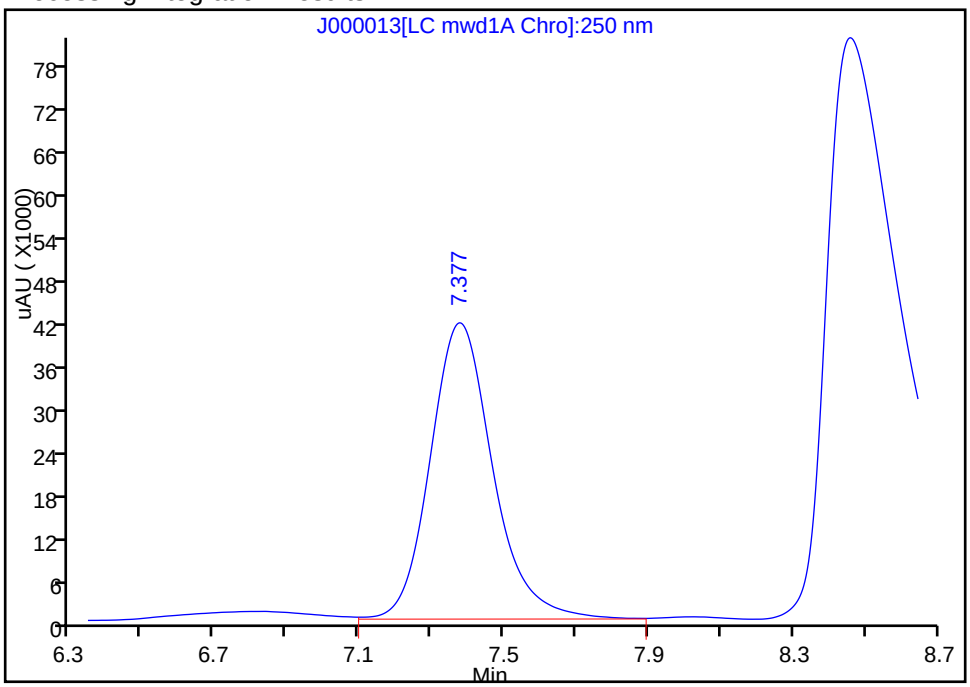
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D				
Injection Date:	11-Mar-2015 20:09:31	Instrument ID:	LC10		
Lims ID:	IC 7				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

19 RDX, CAS: 121-82-4

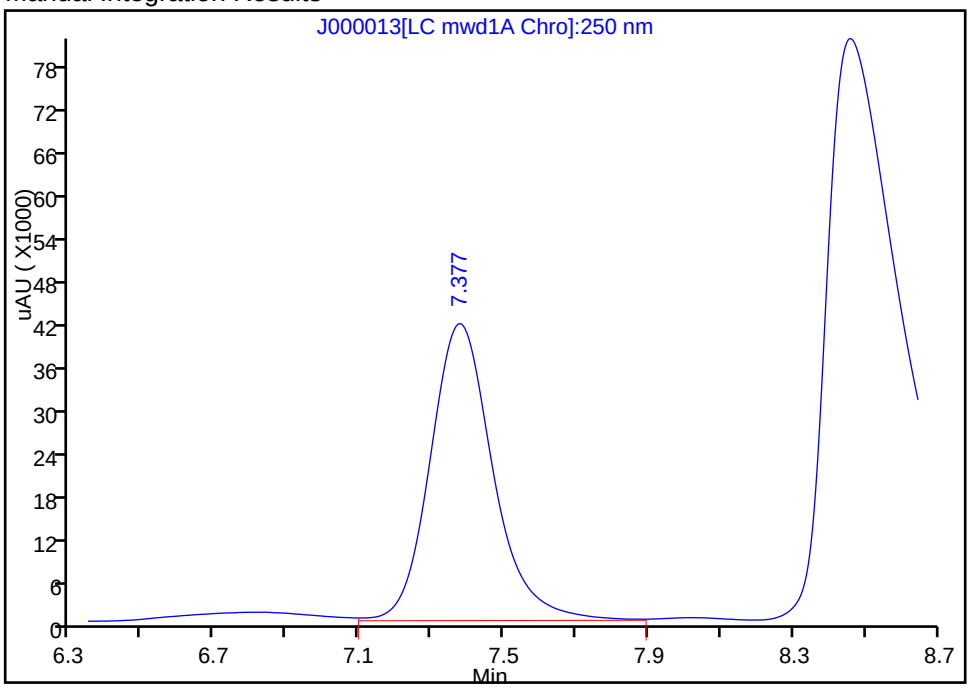
Processing Integration Results

RT: 7.38
Height: 41572
Amount: 409.7990
Amount Units: ng/ml



Manual Integration Results

RT: 7.38
Height: 41667
Amount: 410.9727
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:47:57
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

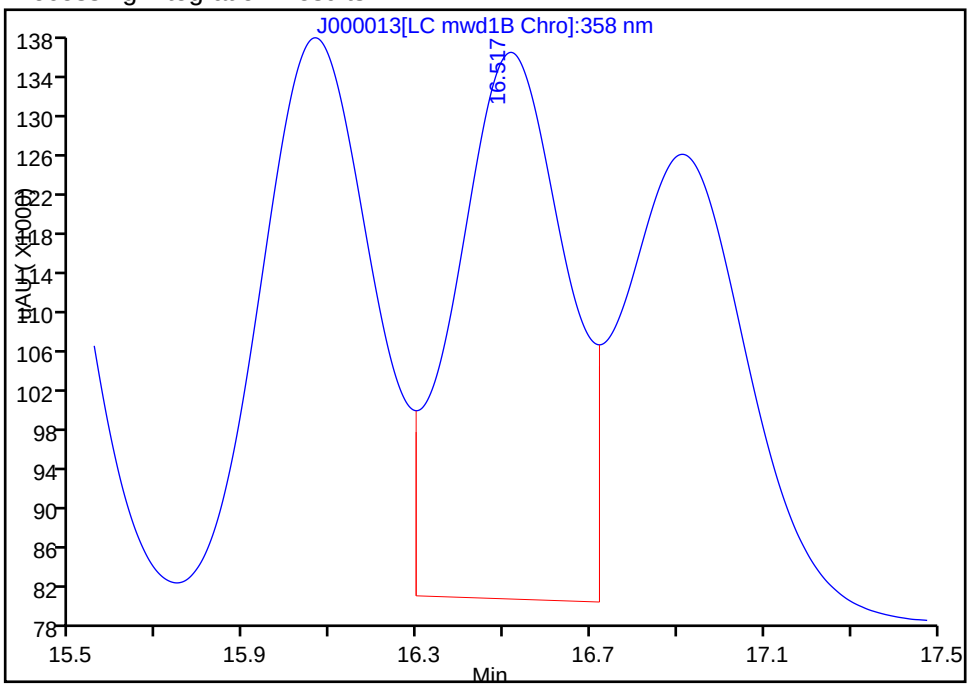
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D
Injection Date: 11-Mar-2015 20:09:31 Instrument ID: LC10
Lims ID: IC 7
Client ID:
Operator ID: YPH ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

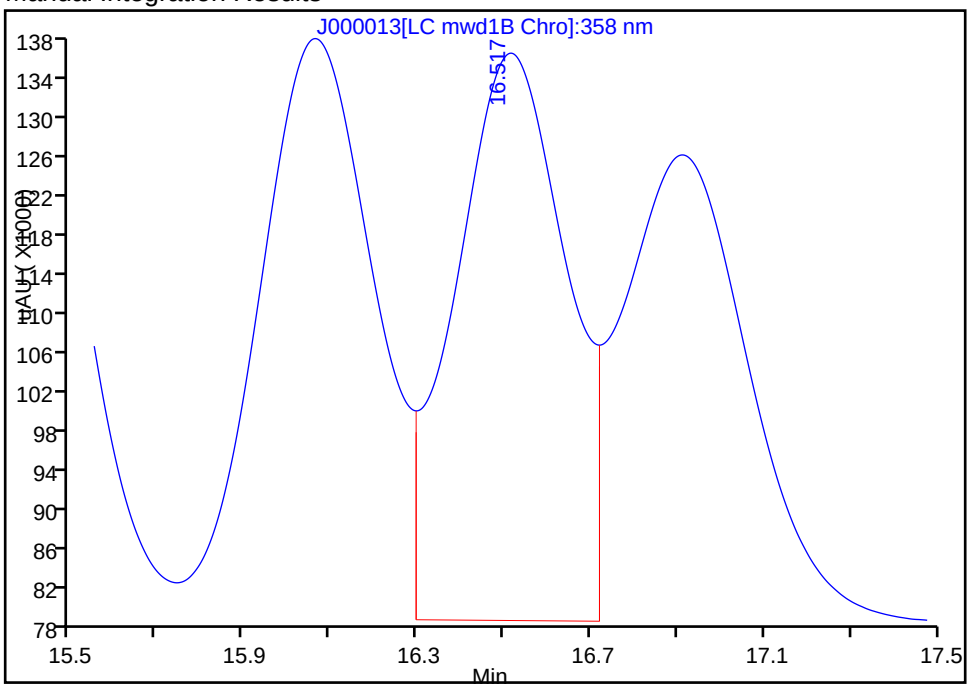
Processing Integration Results

RT: 16.52
Height: 55541
Amount: 414.9487
Amount Units: ng/ml



Manual Integration Results

RT: 16.52
Height: 57741
Amount: 430.0356
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:25:52
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

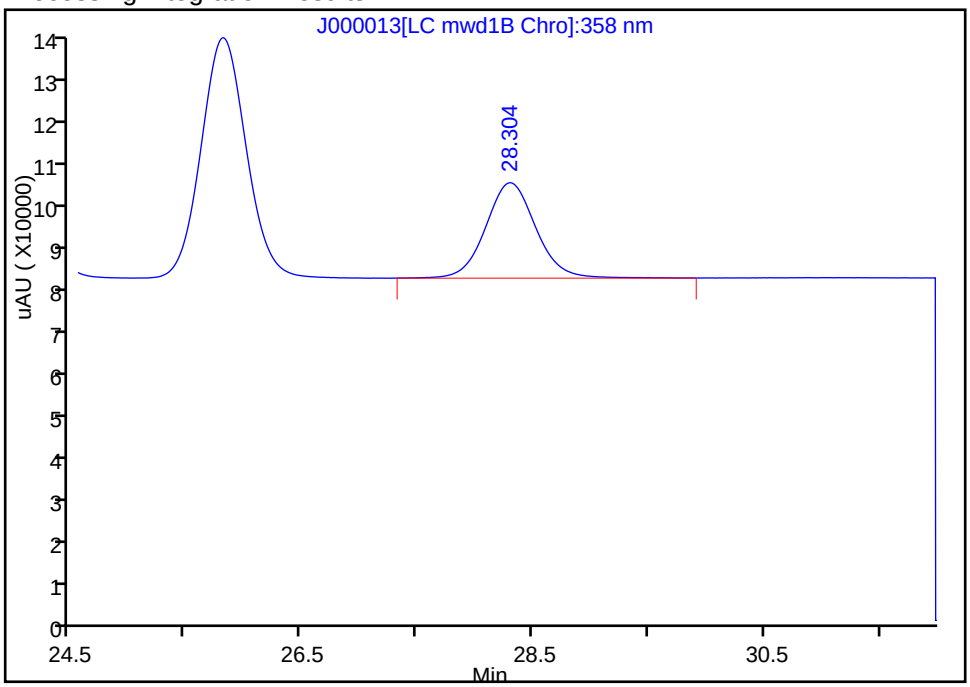
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D
Injection Date: 11-Mar-2015 20:09:31 Instrument ID: LC10
Lims ID: IC 7
Client ID:
Operator ID: YPH ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

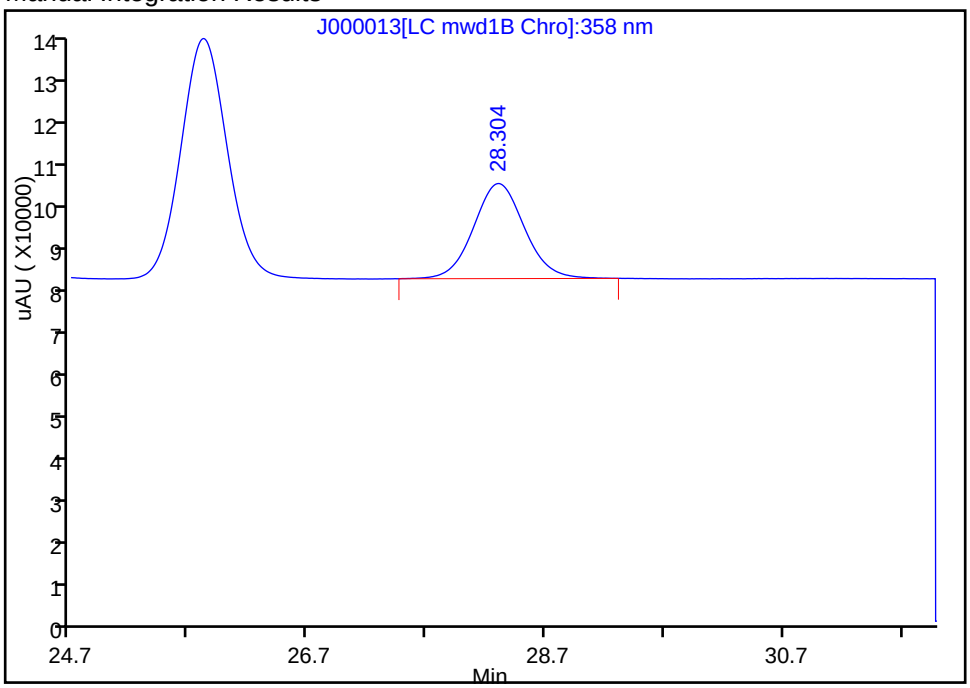
Processing Integration Results

RT: 28.30
Height: 21827
Amount: 405.0943
Amount Units: ng/ml



Manual Integration Results

RT: 28.30
Height: 21745
Amount: 489.3004
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:18:18
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 63675

SDG No.:

Instrument ID: LC9 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2015 14:34 Calibration End Date: 01/23/2015 21:15 Calibration ID: 11278

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 320-63675/4	W000004.D
Level 2	STD2 320-63675/5	W000005.D
Level 3	STD3 320-63675/6	W000006.D
Level 4	STD4 320-63675/7	W000007.D
Level 5	STD5 320-63675/8	W000008.D
Level 6	STD6 320-63675/9	W000009.D
Level 7	STD7 320-63675/10	W000010.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Nitrobenzene	21.583	21.570	21.569	21.586	21.558	21.544	21.482				21.336 - 21.836	21.556
Ethylene glycol dinitrate	+++++	22.760	22.783	22.772	22.761	22.747	22.706				22.522 - 23.022	22.755
1,3-Dinitrobenzene	24.400	24.390	24.403	24.432	24.411	24.394	24.346				24.182 - 24.682	24.397
1,3,5-Trinitrobenzene	26.837	26.874	26.853	26.886	26.861	26.851	26.799				26.636 - 27.136	26.852
2-Nitrotoluene	28.200	28.194	28.196	28.226	28.201	28.187	28.119				27.976 - 28.476	28.189
4-Nitrotoluene	28.200	28.194	28.196	28.226	28.201	28.187	28.119				27.976 - 28.476	28.189
3-Nitrotoluene	28.747	28.750	28.776	28.802	28.771	28.757	28.686				28.552 - 29.052	28.756
3,5-Dinitroaniline	30.263	30.294	30.299	30.326	30.308	30.294	30.229				30.076 - 30.576	30.288
RDX	30.920	30.914	30.923	30.969	30.945	30.931	30.862				30.719 - 31.219	30.923
2,4-Dinitrotoluene	31.683	31.667	31.683	31.709	31.691	31.681	31.612				31.459 - 31.959	31.675
2,6-Dinitrotoluene	32.537	32.587	32.599	32.616	32.581	32.574	32.502				32.366 - 32.866	32.571
2-Amino-4,6-dinitrotoluene	34.790	34.817	34.829	34.879	34.845	34.831	34.762				34.629 - 35.129	34.822
4-Amino-2,6-dinitrotoluene	35.227	35.227	35.263	35.302	35.271	35.257	35.162				35.052 - 35.552	35.244
2,4,6-Trinitrotoluene	38.813	38.817	38.829	38.852	38.831	38.824	38.769				38.602 - 39.102	38.819
HMX	40.863	40.920	40.926	40.939	40.924	40.914	40.879				40.689 - 41.189	40.909
Nitroglycerin	+++++	43.287	43.286	43.315	43.298	43.304	43.259				43.065 - 43.565	43.292
Tetryl	44.970	45.010	45.019	45.042	45.031	45.034	44.979				44.792 - 45.292	45.012
PETN	+++++	51.543	51.556	51.585	51.574	51.574	51.549				51.335 - 51.835	51.564
3,4-Dinitrotoluene	36.940	36.953	36.976	37.005	36.978	36.964	36.895				36.755 - 37.255	36.959

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 63675

SDG No.:

Instrument ID: LC9 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2015 14:34 Calibration End Date: 01/23/2015 21:15 Calibration ID: 11278

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 320-63675/4	W000004.D
Level 2	STD2 320-63675/5	W000005.D
Level 3	STD3 320-63675/6	W000006.D
Level 4	STD4 320-63675/7	W000007.D
Level 5	STD5 320-63675/8	W000008.D
Level 6	STD6 320-63675/9	W000009.D
Level 7	STD7 320-63675/10	W000010.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Nitrobenzene	55.000 49.200	45.700 46.175	49.300 43.610	48.820	Ave		48.2578571				7.6		20.0			
Ethylene glycol dinitrate	+++++ 52.960	73.400 50.635	57.150 48.026	55.080	Lin2	231.492304	48.9936565							0.9970		0.9900
1,3-Dinitrobenzene	117.00 104.41	109.50 99.365	110.20 95.020	103.70	Ave		105.599286				6.9		20.0			
1,3,5-Trinitrobenzene	97.000 82.720	91.100 79.275	87.050 77.236	81.460	Ave		85.1201429				8.3		20.0			
2-Nitrotoluene	77.600 64.490	62.300 61.070	64.950 58.748	64.040	Ave		64.7425714				9.4		20.0			
4-Nitrotoluene	77.600 64.490	62.300 61.070	64.950 58.748	64.040	Ave		64.7425714				9.4		20.0			
3-Nitrotoluene	52.400 37.500	40.500 35.655	38.400 34.274	37.640	Lin2	80.4644183	35.0327529							0.9970		0.9900
3,5-Dinitroaniline	101.60 82.870	93.800 78.610	88.350 75.924	81.280	Ave		86.0620000				11.0		20.0			
RDX	71.000 47.360	57.300 44.745	51.950 43.146	46.880	Lin2	133.220607	44.4035178							0.9990		0.9900
2,4-Dinitrotoluene	106.80 89.910	94.200 85.790	93.400 83.436	88.260	Ave		91.6851429				8.4		20.0			
2,6-Dinitrotoluene	65.800 53.490	55.700 51.100	56.250 49.982	52.900	Ave		55.0317143				9.6		20.0			
2-Amino-4,6-dinitrotoluene	90.400 77.070	82.300 73.855	81.000 72.672	74.940	Ave		78.8910000				7.9		20.0			
4-Amino-2,6-dinitrotoluene	75.000 64.410	69.400 62.350	67.800 62.056	61.420	Ave		66.0622857				7.5		20.0			
2,4,6-Trinitrotoluene	84.600 75.650	82.800 75.215	80.850 71.834	74.700	Ave		77.9498571				6.1		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 63675

SDG No.:

Instrument ID: LC9 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2015 14:34 Calibration End Date: 01/23/2015 21:15 Calibration ID: 11278

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
HMX	66.000 58.480	62.400 56.480	61.300 54.984	57.820	Ave		59.6377143				6.4		20.0			
Nitroglycerin	+++++ 81.680	104.80 79.990	101.60 78.170	84.800	Ave		88.5066667				13.0		20.0			
Tetryl	128.60 112.40	124.20 112.71	121.80 109.41	109.32	Ave		116.919857				6.7		20.0			
PETN	+++++ 132.51	134.20 133.08	149.90 129.70	129.32	Ave		134.784667				5.7		20.0			
3,4-Dinitrotoluene	55.800 44.690	50.800 43.680	47.750 43.222	45.640	Ave		47.3688571				9.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 63675

SDG No.:

Instrument ID: LC9 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2015 14:34 Calibration End Date: 01/23/2015 21:15 Calibration ID: 11278

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 320-63675/4	W000004.D
Level 2	STD2 320-63675/5	W000005.D
Level 3	STD3 320-63675/6	W000006.D
Level 4	STD4 320-63675/7	W000007.D
Level 5	STD5 320-63675/8	W000008.D
Level 6	STD6 320-63675/9	W000009.D
Level 7	STD7 320-63675/10	W000010.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Nitrobenzene	Ave	275 9235	457 21805	986	2441	4920	5.00 200	10.0 500	20.0	50.0	100
Ethylene glycol dinitrate	Lin2	+++++ 10127	734 24013	1143	2754	5296	+++++ 200	10.0 500	20.0	50.0	100
1,3-Dinitrobenzene	Ave	585 19873	1095 47510	2204	5185	10441	5.00 200	10.0 500	20.0	50.0	100
1,3,5-Trinitrobenzene	Ave	485 15855	911 38618	1741	4073	8272	5.00 200	10.0 500	20.0	50.0	100
2-Nitrotoluene	Ave	388 12214	623 29374	1299	3202	6449	5.00 200	10.0 500	20.0	50.0	100
4-Nitrotoluene	Ave	388 12214	623 29374	1299	3202	6449	5.00 200	10.0 500	20.0	50.0	100
3-Nitrotoluene	Lin2	262 7131	405 17137	768	1882	3750	5.00 200	10.0 500	20.0	50.0	100
3,5-Dinitroaniline	Ave	508 15722	938 37962	1767	4064	8287	5.00 200	10.0 500	20.0	50.0	100
RDX	Lin2	355 8949	573 21573	1039	2344	4736	5.00 200	10.0 500	20.0	50.0	100
2,4-Dinitrotoluene	Ave	534 17158	942 41718	1868	4413	8991	5.00 200	10.0 500	20.0	50.0	100
2,6-Dinitrotoluene	Ave	329 10220	557 24991	1125	2645	5349	5.00 200	10.0 500	20.0	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	452 14771	823 36336	1620	3747	7707	5.00 200	10.0 500	20.0	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	375 12470	694 31028	1356	3071	6441	5.00 200	10.0 500	20.0	50.0	100
2,4,6-Trinitrotoluene	Ave	423 15043	828 35917	1617	3735	7565	5.00 200	10.0 500	20.0	50.0	100
HMX	Ave	330 11296	624 27492	1226	2891	5848	5.00 200	10.0 500	20.0	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1 Analy Batch No.: 63675

SDG No.:

Instrument ID: LC9 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2015 14:34 Calibration End Date: 01/23/2015 21:15 Calibration ID: 11278

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Nitroglycerin	Ave	+++++ 15998	1048 39085	2032	4240	8168	+++++ 200	10.0 500	20.0	50.0	100
Tetryl	Ave	643 22541	1242 54707	2436	5466	11240	5.00 200	10.0 500	20.0	50.0	100
PETN	Ave	+++++ 26616	1342 64849	2998	6466	13251	+++++ 200	10.0 500	20.0	50.0	100
3,4-Dinitrotoluene	Ave	279 8736	508 21611	955	2282	4469	5.00 200	10.0 500	20.0	50.0	100

Curve Type Legend:

Ave = Average by Height
Lin2 = Linear 1/conc^2 by height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000004.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2015 14:34:45 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-004
Operator ID: TQP Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:23 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:13:37

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.583	21.586	-0.003	275H	5.00	5.70	
4 Ethylene glycol dinitrate							
2	22.793	22.772	0.021	435H	5.00	4.15	
5 1,3-Dinitrobenzene							
1	24.400	24.432	-0.032	585H	5.00	5.54	
7 1,3,5-Trinitrobenzene							
1	26.837	26.886	-0.049	485H	5.00	5.70	
9 p-Nitrotoluene							
1	28.200	28.226	-0.026	388H	5.00	5.99	
8 o-Nitrotoluene							
1	28.200	28.226	-0.026	388H	5.00	5.99	
10 m-Nitrotoluene							
1	28.747	28.802	-0.055	262H	5.00	5.18	
11 3,5-Dinitroaniline							
1	30.263	30.326	-0.063	508H	5.00	5.90	
12 RDX							
1	30.920	30.969	-0.049	355H	5.00	4.99	
13 2,4-Dinitrotoluene							
1	31.683	31.709	-0.026	534H	5.00	5.82	
14 2,6-Dinitrotoluene							
1	32.537	32.616	-0.079	329H	5.00	5.98	
15 2-Amino-4,6-dinitrotoluene							M
1	34.790	34.879	-0.089	452H	5.00	5.73	M
16 4-Amino-2,6-dinitrotoluene							M
1	35.227	35.302	-0.075	375H	5.00	5.68	M
$ 17 3,4-Dinitrotoluene							
1	36.940	37.005	-0.065	279H	5.00	5.89	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.813	38.852	-0.039	423H	5.00	5.43	
19 HMX							
1	40.863	40.939	-0.076	330H	5.00	5.53	
20 Nitroglycerin							
2	43.247	43.315	-0.068	386H	5.00	4.36	
21 Tetryl							
1	44.970	45.042	-0.072	643H	5.00	5.50	
22 PETN							
2	51.533	51.585	-0.052	972H	5.00	7.21	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L1_00019 Amount Added: 1.00 Units: mL

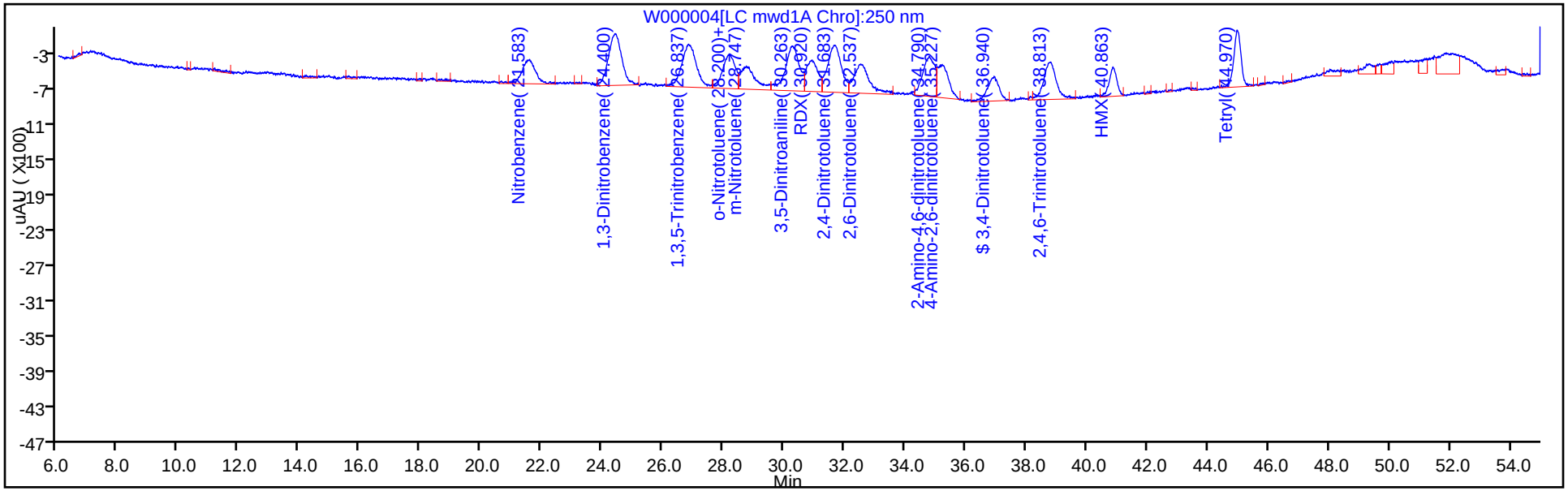
Report Date: 26-Jan-2015 12:47:23 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

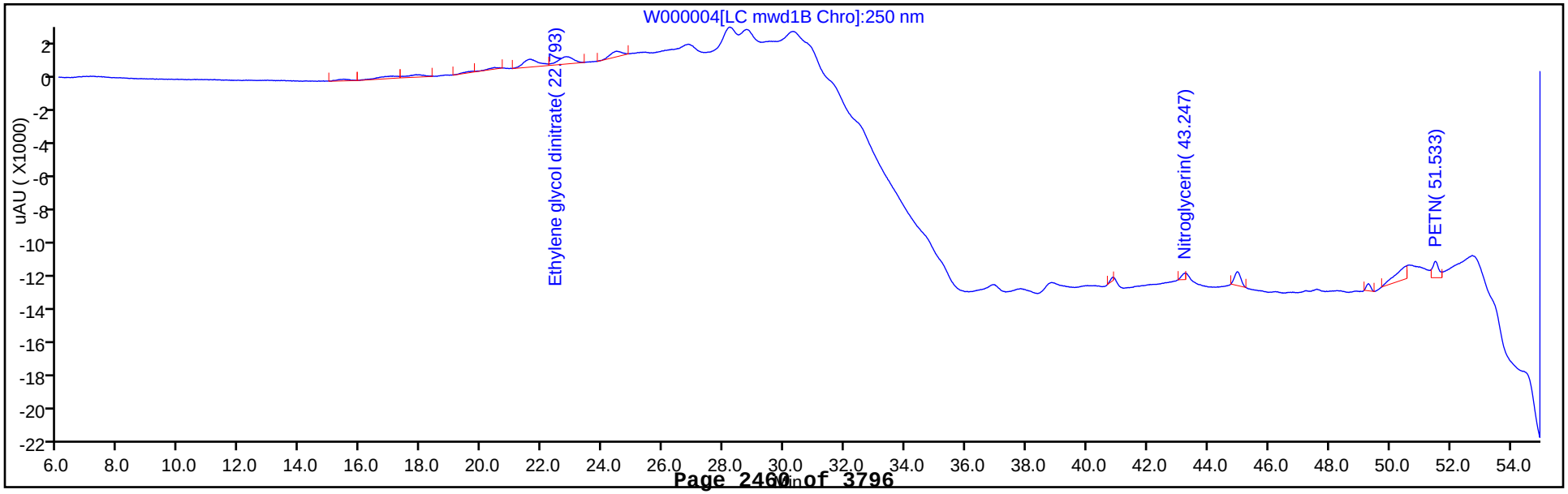
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000004.D

Injection Date:	23-Jan-2015 14:34:45	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	STD1			Worklist Smp#:	4
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

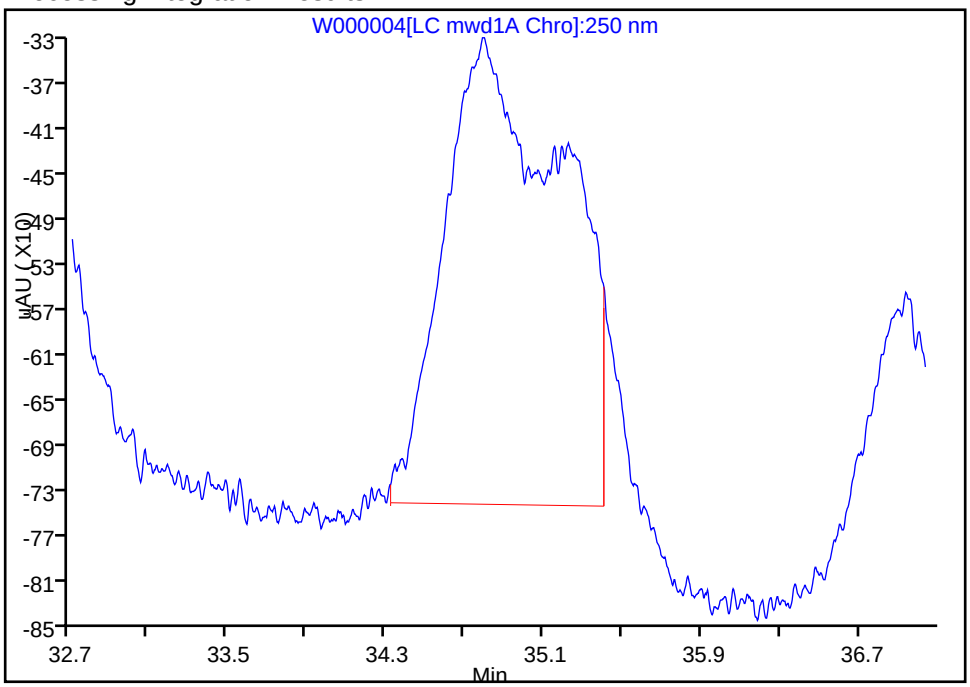
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000004.D
Injection Date: 23-Jan-2015 14:34:45 Instrument ID: LC9
Lims ID: STD1
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

15 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

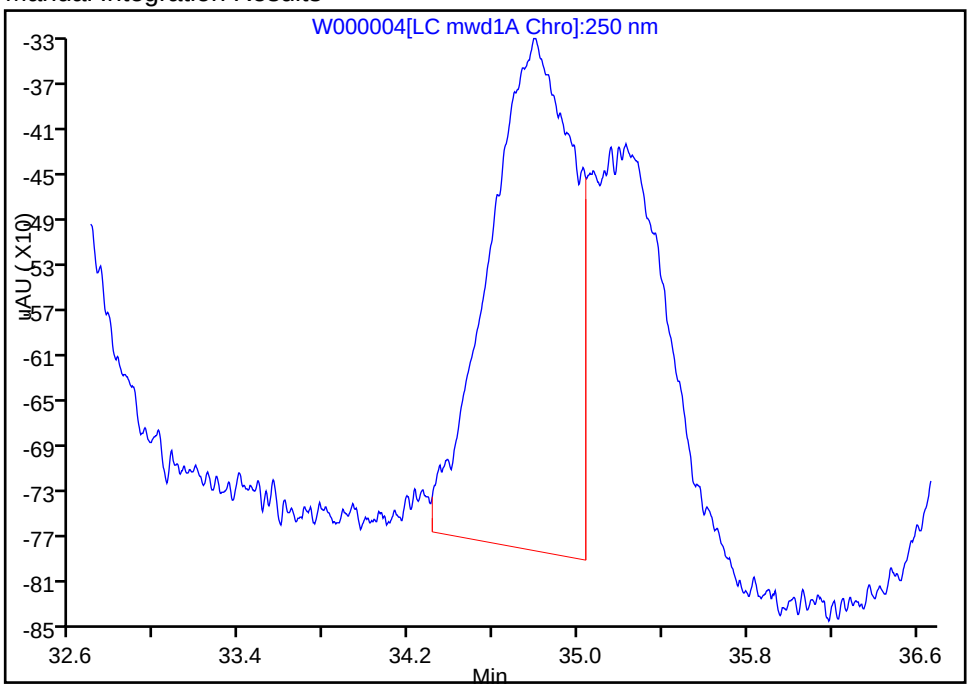
Processing Integration Results

RT: 34.80
Height: 412
Amount: 5.355051
Amount Units: ng/ml



Manual Integration Results

RT: 34.79
Height: 452
Amount: 5.729424
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:15:24
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

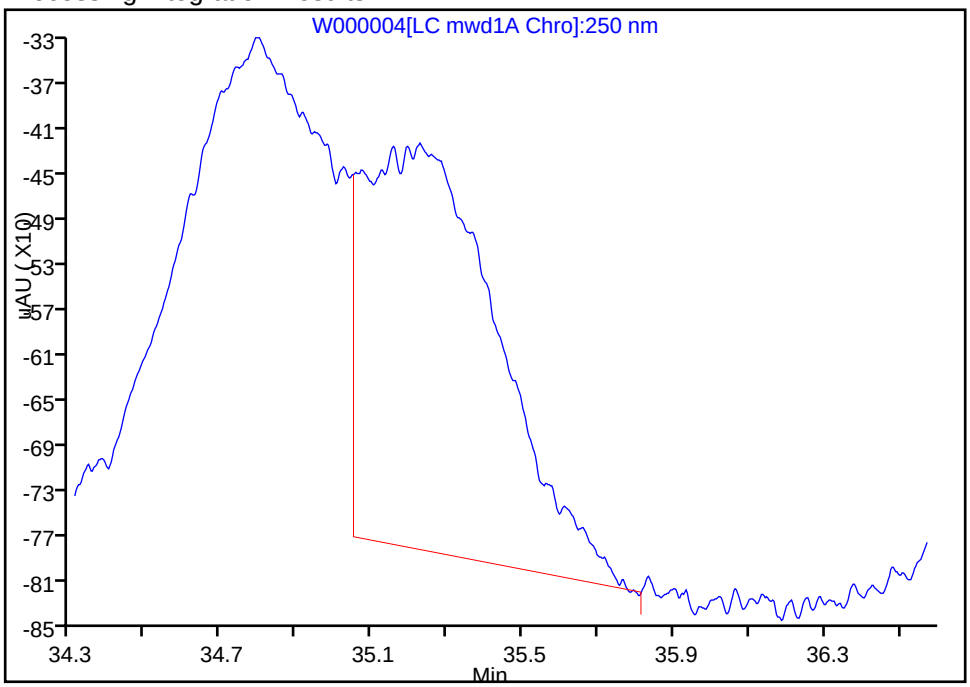
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000004.D
Injection Date: 23-Jan-2015 14:34:45 Instrument ID: LC9
Lims ID: STD1
Client ID:
Operator ID: TQP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

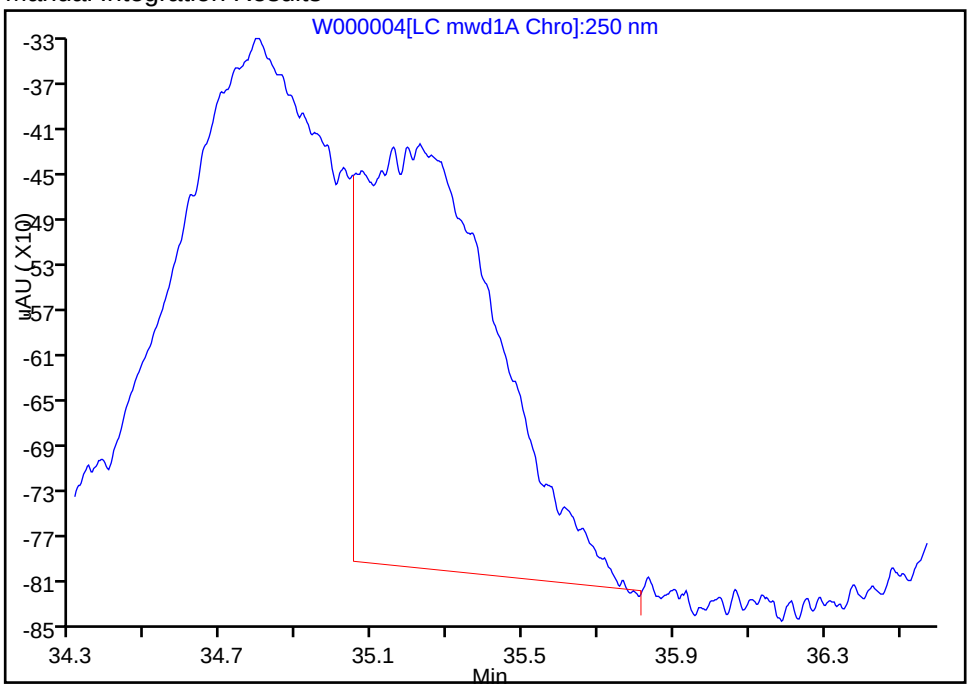
Processing Integration Results

RT: 35.23
Height: 359
Amount: 5.555040
Amount Units: ng/ml



Manual Integration Results

RT: 35.23
Height: 375
Amount: 5.676461
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:15:24
Audit Action: Assigned New Baseline
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000005.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jan-2015 15:41:25 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-005
Operator ID: TQP Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:24 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:13:44

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.570	21.586	-0.016	457H	10.0	9.47	
4 Ethylene glycol dinitrate							M
2	22.760	22.772	-0.012	734H	10.0	10.3	M
5 1,3-Dinitrobenzene							
1	24.390	24.432	-0.042	1095H	10.0	10.4	
7 1,3,5-Trinitrobenzene							
1	26.874	26.886	-0.012	911H	10.0	10.7	
9 p-Nitrotoluene							
1	28.194	28.226	-0.032	623H	10.0	9.62	
8 o-Nitrotoluene							
1	28.194	28.226	-0.032	623H	10.0	9.62	
10 m-Nitrotoluene							
1	28.750	28.802	-0.052	405H	10.0	9.26	
11 3,5-Dinitroaniline							
1	30.294	30.326	-0.032	938H	10.0	10.9	
12 RDX							
1	30.914	30.969	-0.055	573H	10.0	9.90	
13 2,4-Dinitrotoluene							
1	31.667	31.709	-0.042	942H	10.0	10.3	
14 2,6-Dinitrotoluene							
1	32.587	32.616	-0.029	557H	10.0	10.1	
15 2-Amino-4,6-dinitrotoluene							M
1	34.817	34.879	-0.062	823H	10.0	10.4	M
16 4-Amino-2,6-dinitrotoluene							M
1	35.227	35.302	-0.075	694H	10.0	10.5	M
$ 17 3,4-Dinitrotoluene							
1	36.953	37.005	-0.052	508H	10.0	10.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.817	38.852	-0.035	828H	10.0	10.6	
19 HMX							
1	40.920	40.939	-0.019	624H	10.0	10.5	
20 Nitroglycerin							M
2	43.287	43.315	-0.028	1048H	10.0	11.8	M
21 Tetryl							
1	45.010	45.042	-0.032	1242H	10.0	10.6	
22 PETN							M
2	51.543	51.585	-0.042	1342H	10.0	9.96	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L2_00013 Amount Added: 1.00 Units: mL

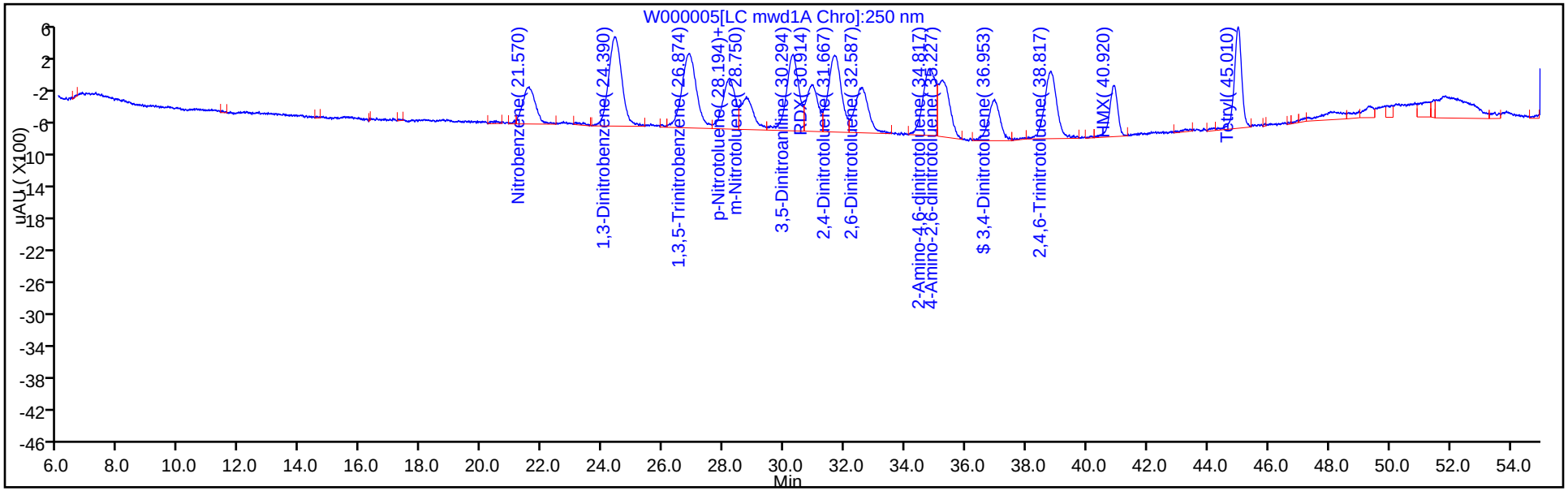
Report Date: 26-Jan-2015 12:47:25 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

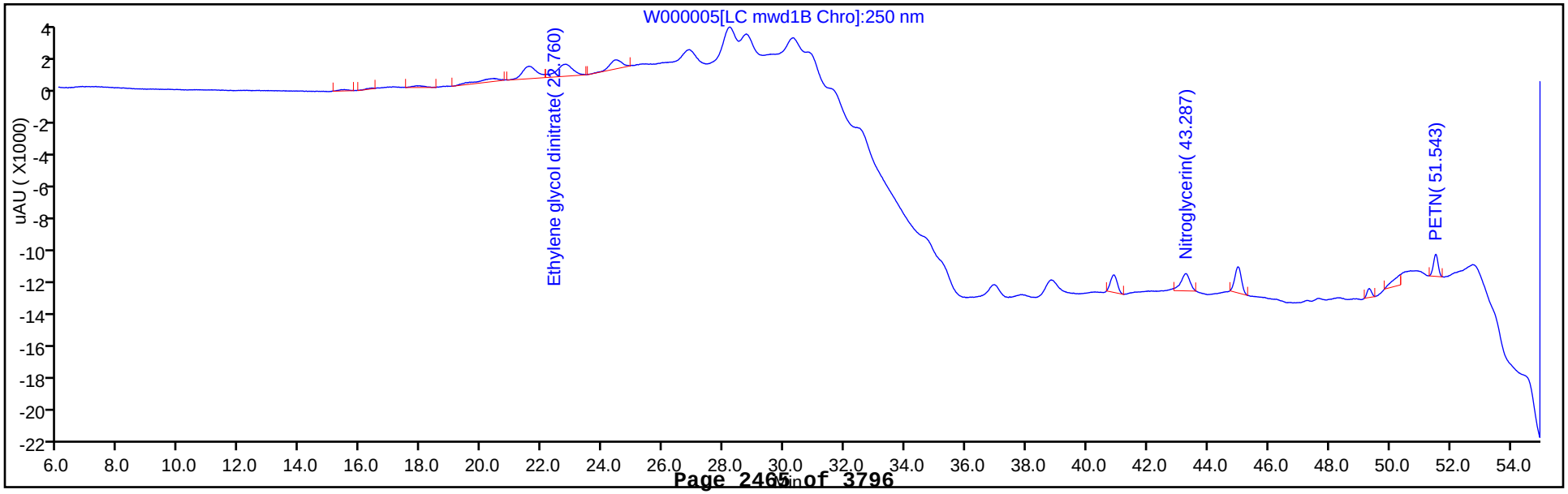
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000005.D

Injection Date:	23-Jan-2015 15:41:25	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	STD2			Worklist Smp#:	5
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

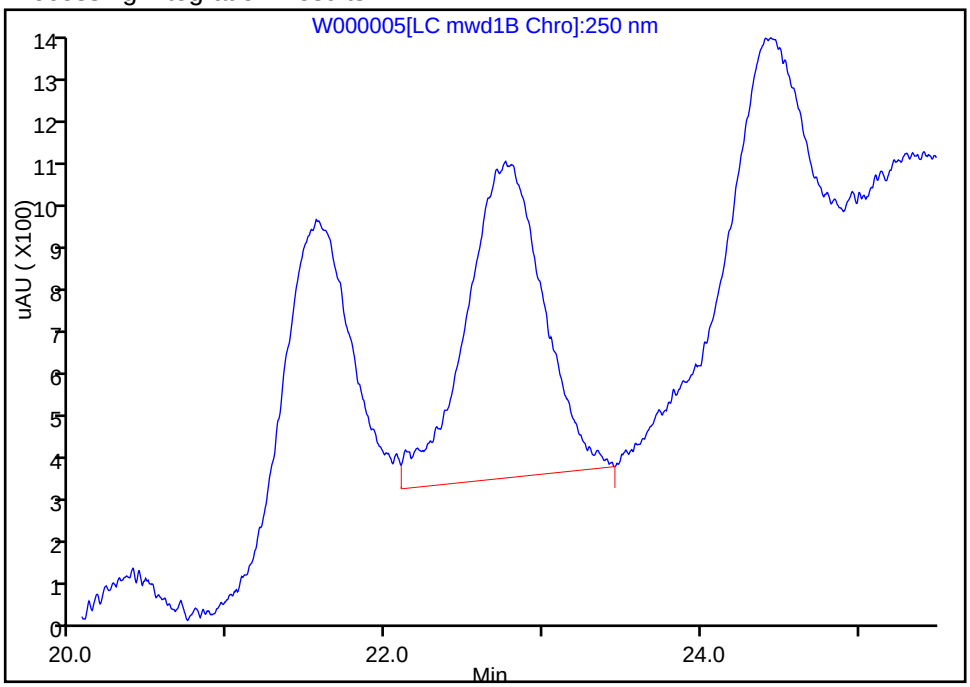
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000005.D
Injection Date: 23-Jan-2015 15:41:25 Instrument ID: LC9
Lims ID: STD2
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

4 Ethylene glycol dinitrate, CAS: 628-96-6

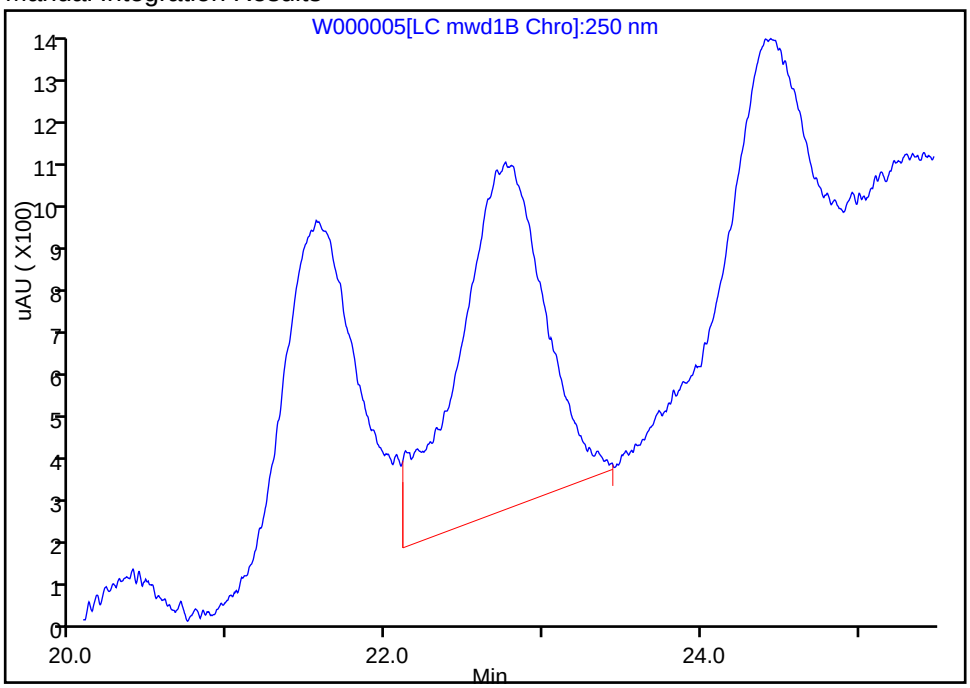
Processing Integration Results

RT: 22.76
Height: 670
Amount: 10.027065
Amount Units: ng/ml



Manual Integration Results

RT: 22.76
Height: 734
Amount: 10.256587
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:27:10
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

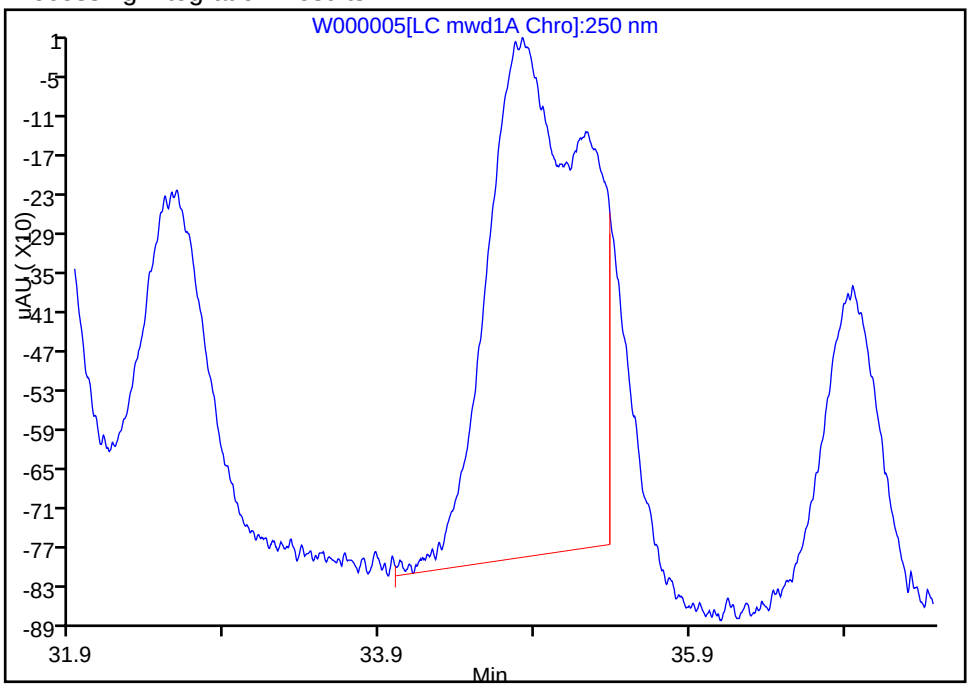
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000005.D
Injection Date: 23-Jan-2015 15:41:25 Instrument ID: LC9
Lims ID: STD2
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

15 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

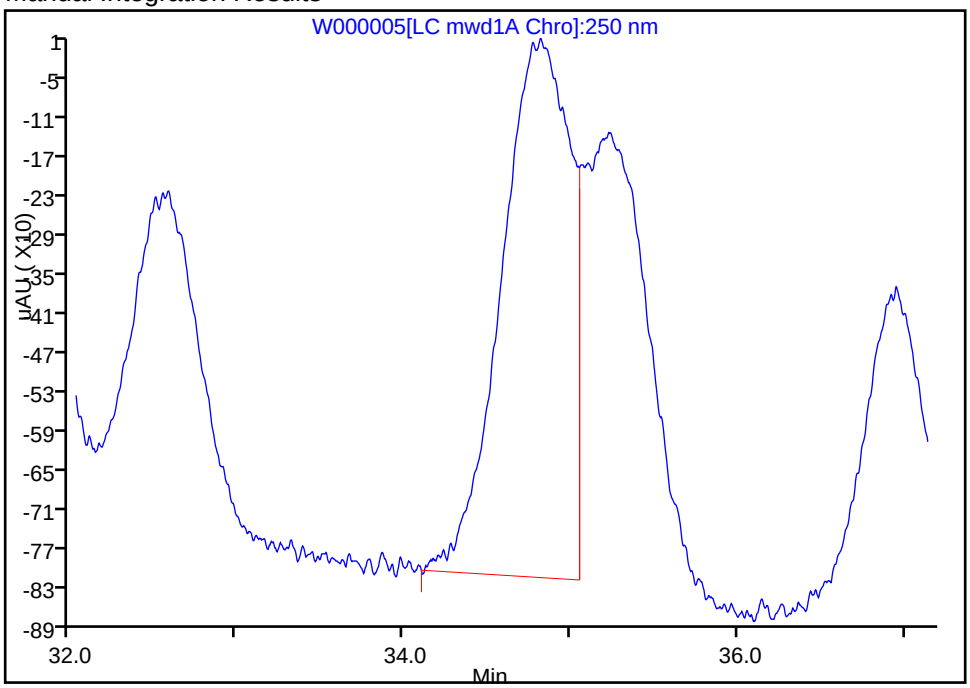
Processing Integration Results

RT: 34.82
Height: 793
Amount: 10.156306
Amount Units: ng/ml



Manual Integration Results

RT: 34.82
Height: 823
Amount: 10.432115
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:16:37
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

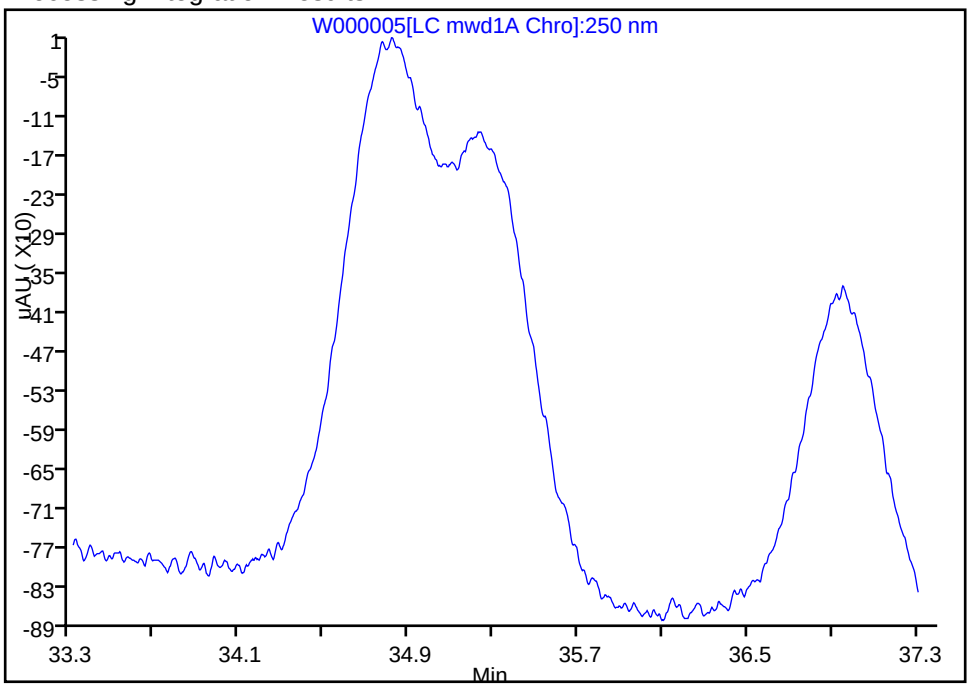
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC9\20150123-18933.b\W000005.D				
Injection Date:	23-Jan-2015 15:41:25	Instrument ID:	LC9		
Lims ID:	STD2				
Client ID:					
Operator ID:	TQP	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		
Column:	Zorbax Cyano CN (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

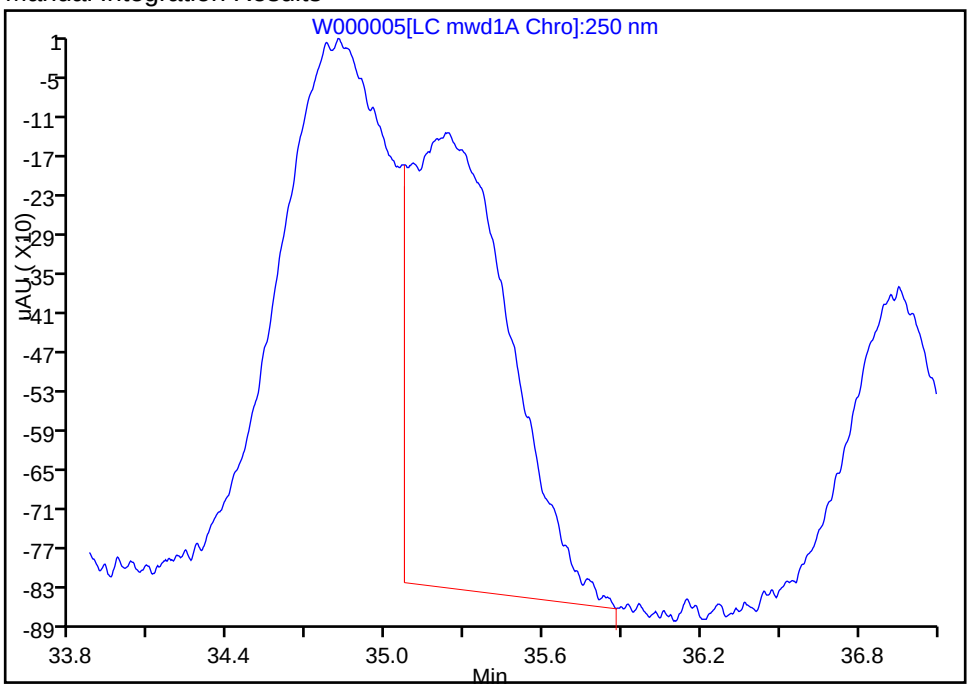
Not Detected
Expected RT: 35.30

Processing Integration Results



Manual Integration Results

RT: 35.23
Height: 694
Amount: 10.505237
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:16:37
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

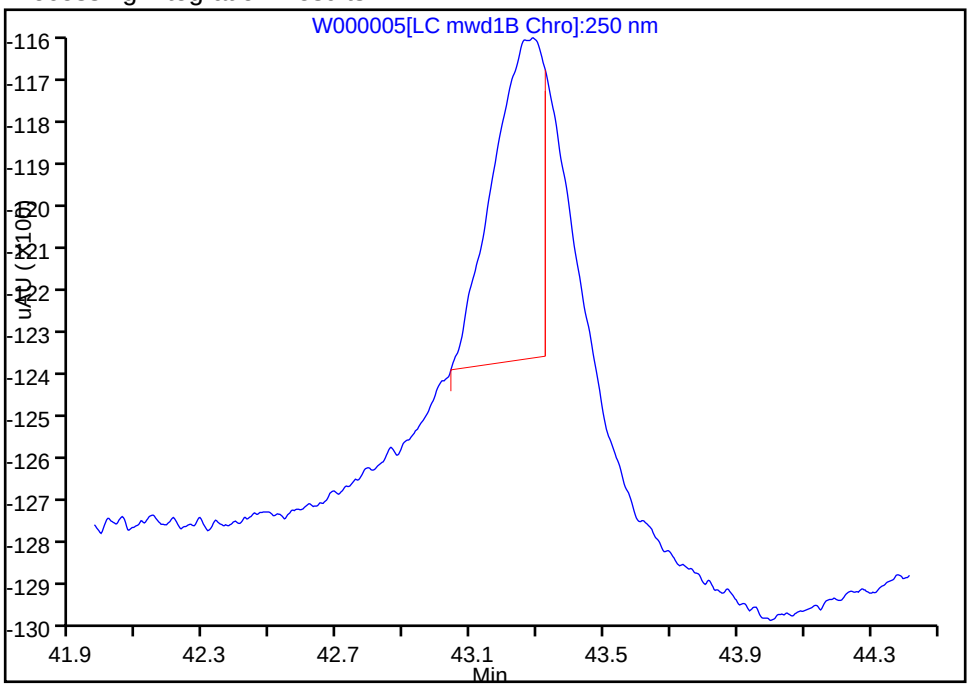
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000005.D
Injection Date: 23-Jan-2015 15:41:25 Instrument ID: LC9
Lims ID: STD2
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

20 Nitroglycerin, CAS: 55-63-0

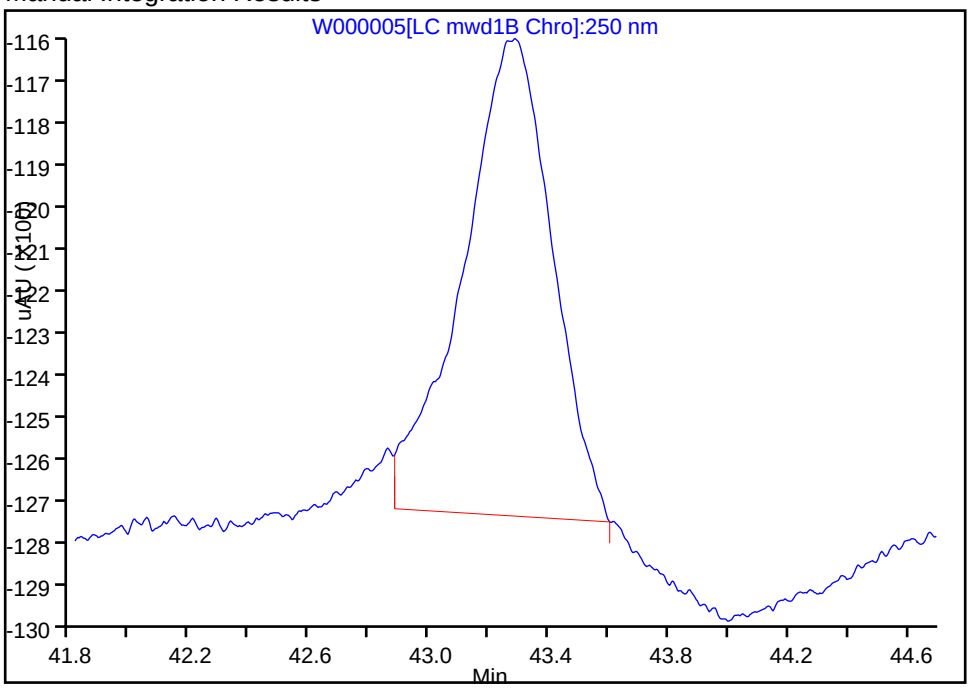
Processing Integration Results

RT: 43.26
Height: 700
Amount: 8.544922
Amount Units: ng/ml



Manual Integration Results

RT: 43.29
Height: 1048
Amount: 11.840916
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:16:37
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

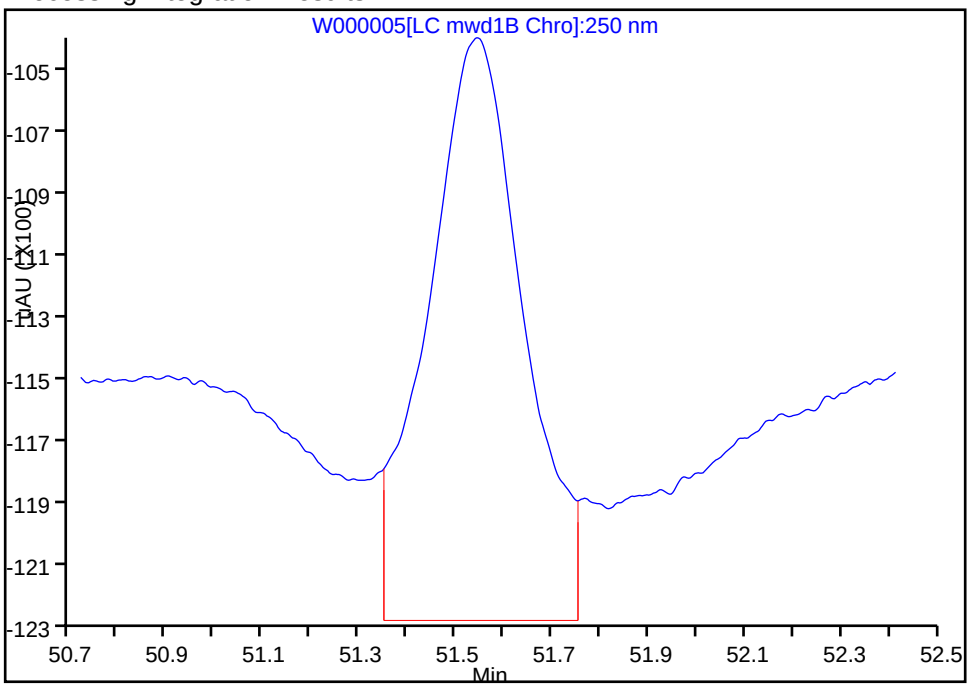
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000005.D
Injection Date: 23-Jan-2015 15:41:25 Instrument ID: LC9
Lims ID: STD2
Client ID:
Operator ID: TQP ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

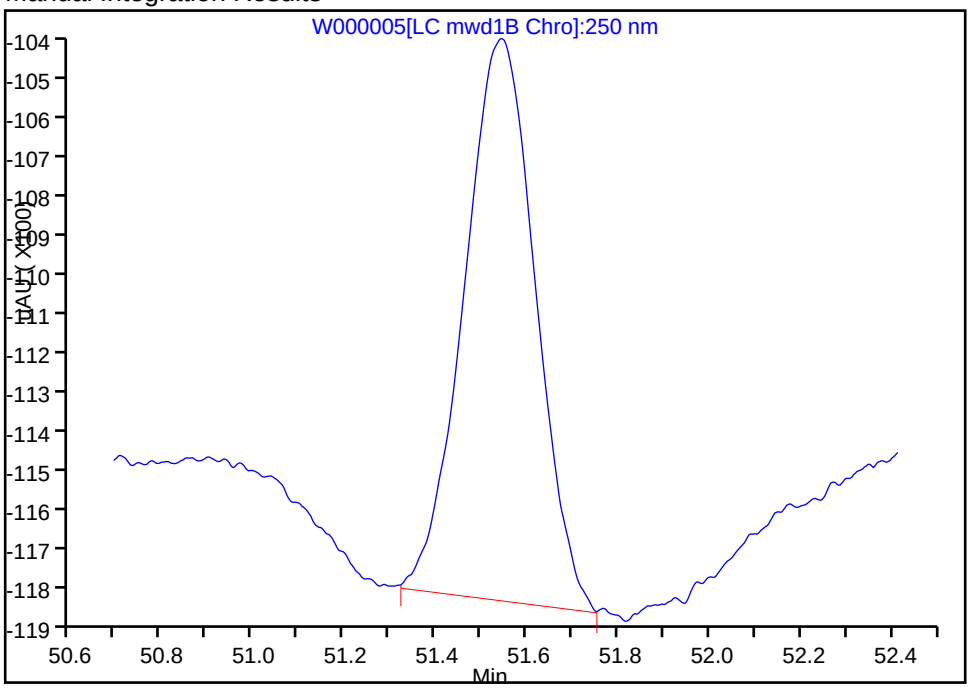
Processing Integration Results

RT: 51.54
Height: 1721
Amount: 11.436866
Amount Units: ng/ml



Manual Integration Results

RT: 51.54
Height: 1342
Amount: 9.956622
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:16:37
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000006.D
Lims ID: STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jan-2015 16:48:06 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-006
Operator ID: TQP Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:26 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:13:55

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.569	21.586	-0.017	986H	20.0	20.4	
4 Ethylene glycol dinitrate							
2	22.783	22.772	0.011	1143H	20.0	18.6	
5 1,3-Dinitrobenzene							
1	24.403	24.432	-0.029	2204H	20.0	20.9	
7 1,3,5-Trinitrobenzene							
1	26.853	26.886	-0.033	1741H	20.0	20.5	
9 p-Nitrotoluene							
1	28.196	28.226	-0.030	1299H	20.0	20.1	
8 o-Nitrotoluene							
1	28.196	28.226	-0.030	1299H	20.0	20.1	
10 m-Nitrotoluene							
1	28.776	28.802	-0.026	768H	20.0	19.6	
11 3,5-Dinitroaniline							
1	30.299	30.326	-0.027	1767H	20.0	20.5	
12 RDX							
1	30.923	30.969	-0.046	1039H	20.0	20.4	
13 2,4-Dinitrotoluene							
1	31.683	31.709	-0.026	1868H	20.0	20.4	
14 2,6-Dinitrotoluene							
1	32.599	32.616	-0.017	1125H	20.0	20.4	
15 2-Amino-4,6-dinitrotoluene							M
1	34.829	34.879	-0.050	1620H	20.0	20.5	M
16 4-Amino-2,6-dinitrotoluene							M
1	35.263	35.302	-0.039	1356H	20.0	20.5	M
$ 17 3,4-Dinitrotoluene							
1	36.976	37.005	-0.029	955H	20.0	20.2	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.829	38.852	-0.023	1617H	20.0	20.7	
19 HMX							
1	40.926	40.939	-0.013	1226H	20.0	20.6	
20 Nitroglycerin							
2	43.286	43.315	-0.029	2032H	20.0	23.0	
21 Tetryl							
1	45.019	45.042	-0.023	2436H	20.0	20.8	
22 PETN							M
2	51.556	51.585	-0.029	2998H	20.0	22.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L3_00014 Amount Added: 1.00 Units: mL

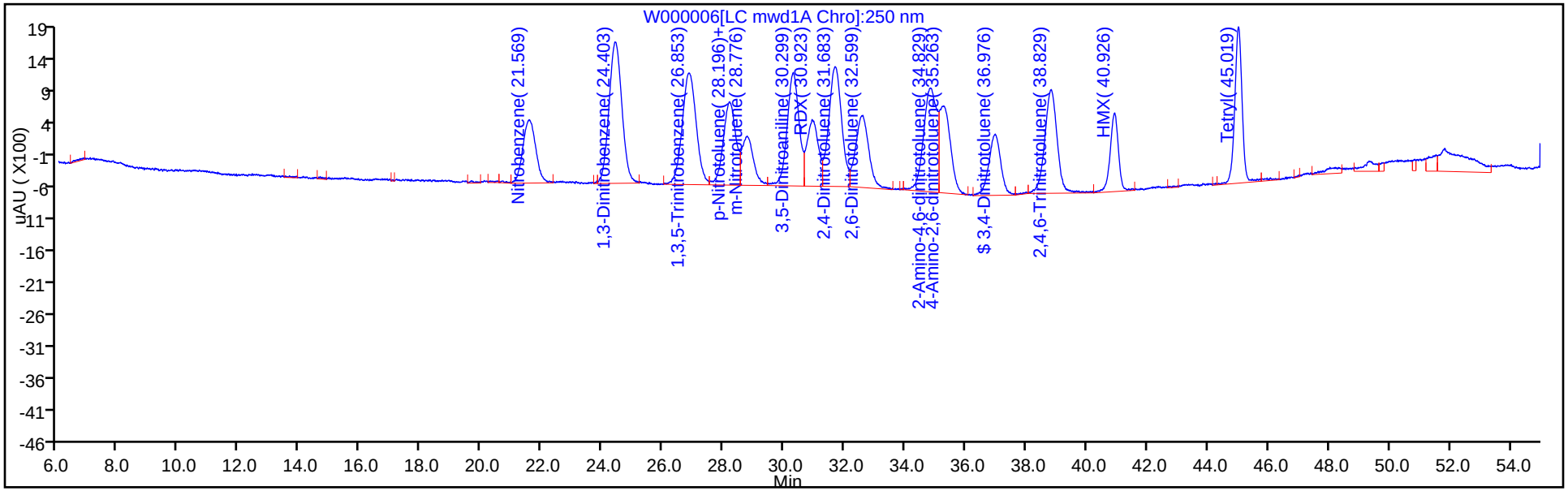
Report Date: 26-Jan-2015 12:47:27 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

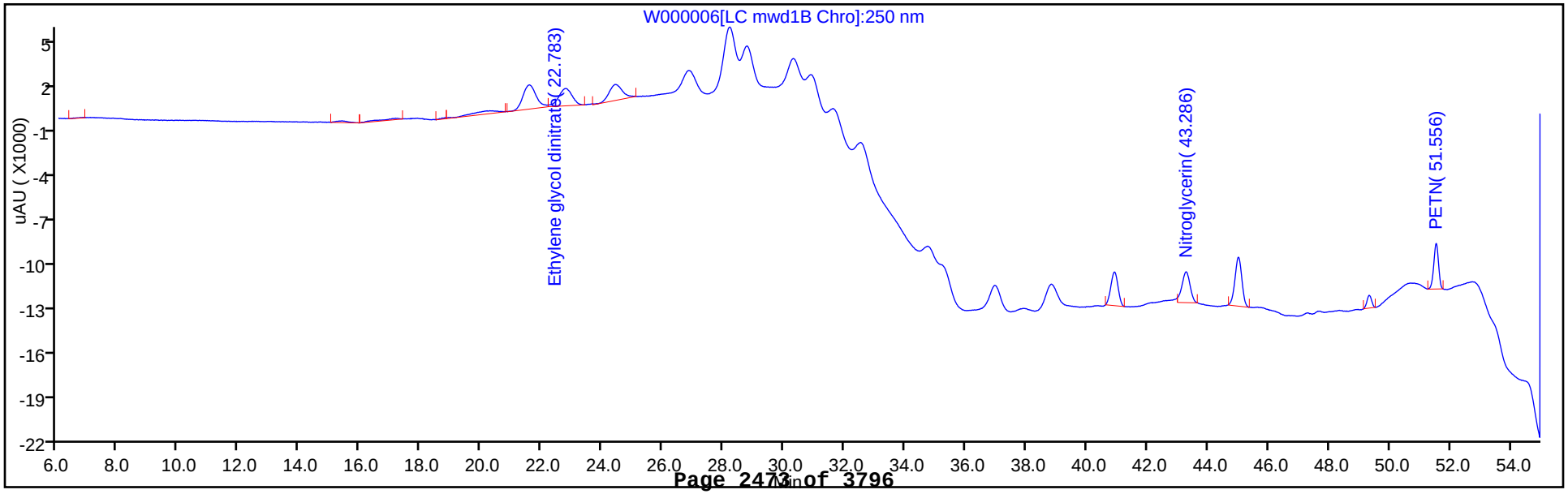
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000006.D

Injection Date:	23-Jan-2015 16:48:06	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	STD3			Worklist Smp#:	6
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

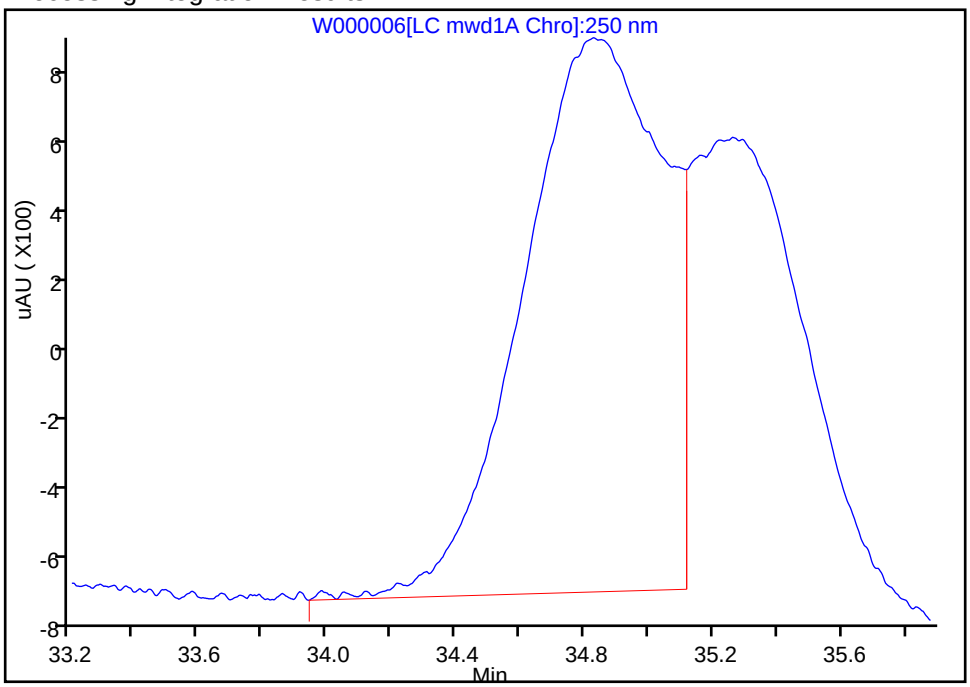
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000006.D
Injection Date: 23-Jan-2015 16:48:06 Instrument ID: LC9
Lims ID: STD3
Client ID:
Operator ID: TQP ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

15 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

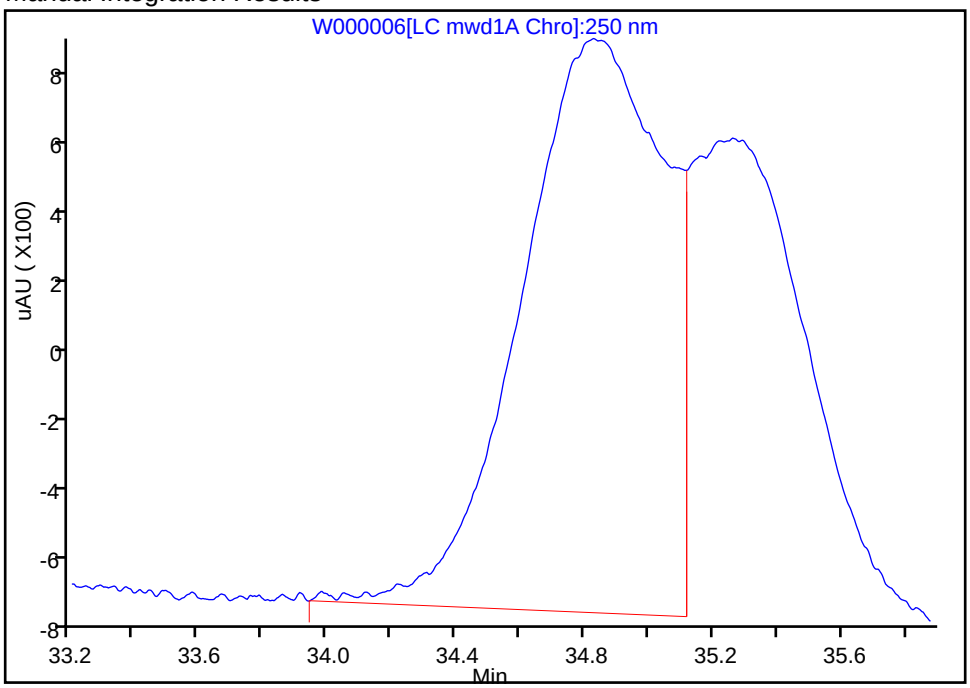
Processing Integration Results

RT: 34.83
Height: 1564
Amount: 19.925851
Amount Units: ng/ml



Manual Integration Results

RT: 34.83
Height: 1620
Amount: 20.534662
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:26:42
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

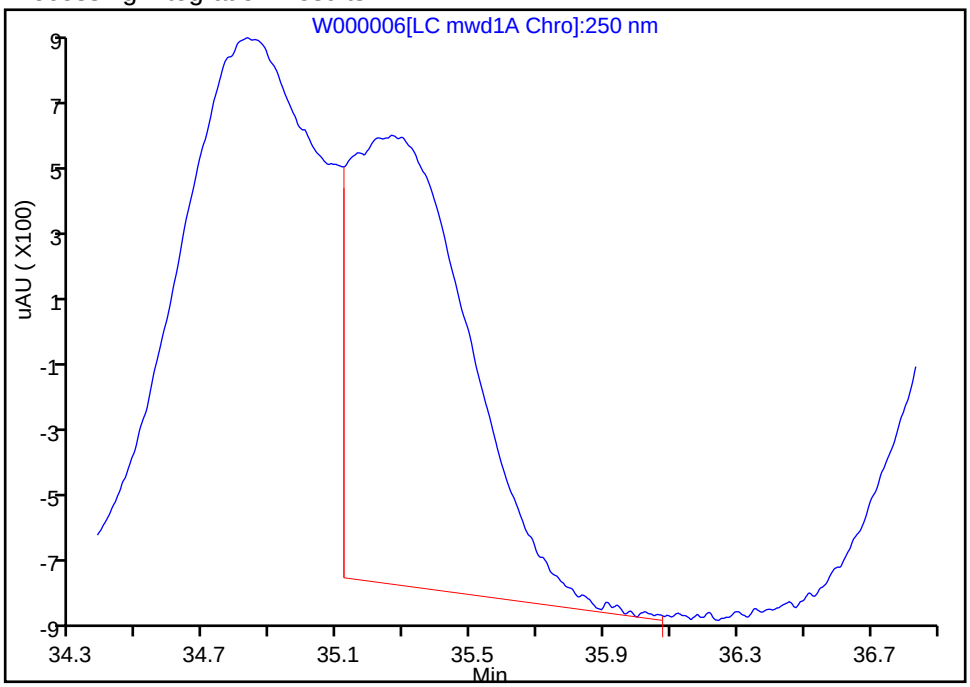
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000006.D
Injection Date: 23-Jan-2015 16:48:06 Instrument ID: LC9
Lims ID: STD3
Client ID:
Operator ID: TQP ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

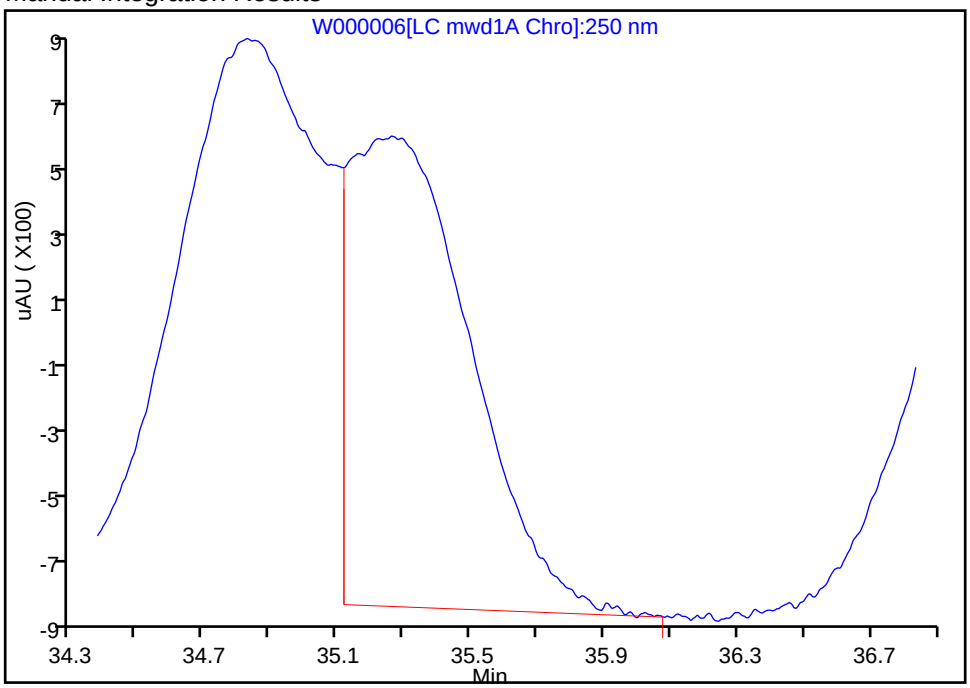
Processing Integration Results

RT: 35.26
Height: 1294
Amount: 19.719769
Amount Units: ng/ml



Manual Integration Results

RT: 35.26
Height: 1356
Amount: 20.526084
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:26:42
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

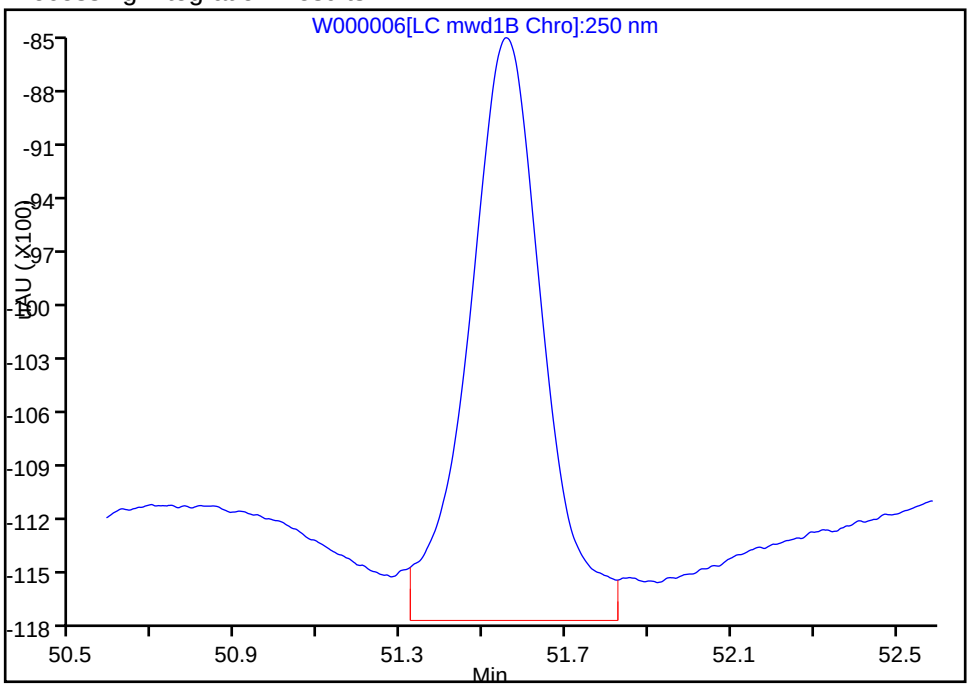
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000006.D
Injection Date: 23-Jan-2015 16:48:06 Instrument ID: LC9
Lims ID: STD3
Client ID:
Operator ID: TQP ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

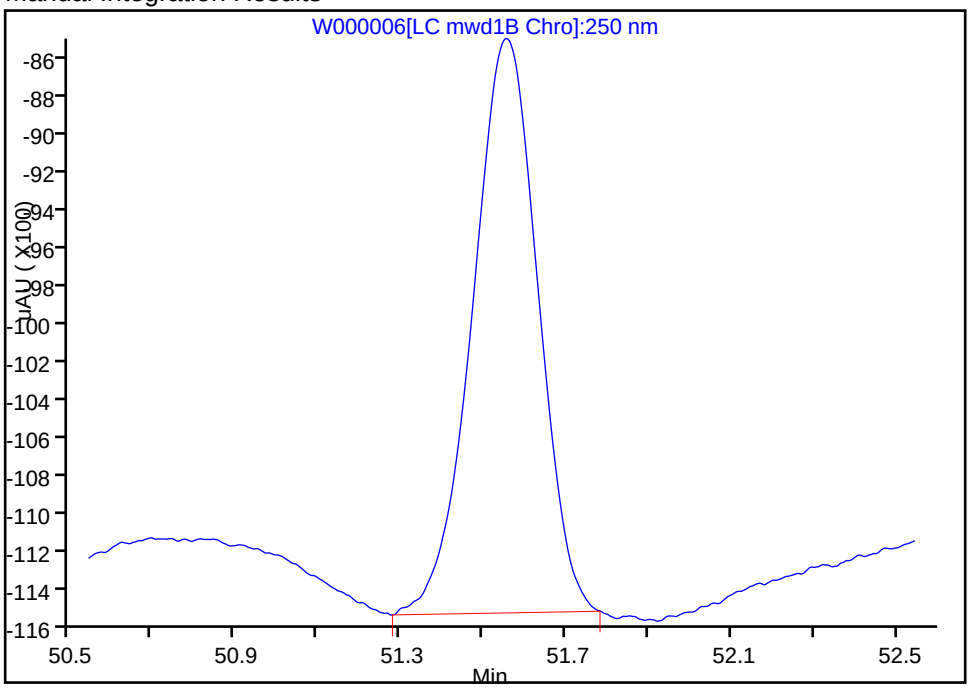
Processing Integration Results

RT: 51.56
Height: 3253
Amount: 22.415534
Amount Units: ng/ml



Manual Integration Results

RT: 51.56
Height: 2998
Amount: 22.242886
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:26:42
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000007.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jan-2015 17:54:49 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-007
Operator ID: TQP Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:28 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:03:15

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.586	21.586	0.000	2441H	50.0	50.6	
4 Ethylene glycol dinitrate							
2	22.772	22.772	0.000	2754H	50.0	51.5	
5 1,3-Dinitrobenzene							
1	24.432	24.432	0.000	5185H	50.0	49.1	
7 1,3,5-Trinitrobenzene							
1	26.886	26.886	0.000	4073H	50.0	47.9	
9 p-Nitrotoluene							
1	28.226	28.226	0.000	3202H	50.0	49.5	
8 o-Nitrotoluene							
1	28.226	28.226	0.000	3202H	50.0	49.5	
10 m-Nitrotoluene							
1	28.802	28.802	0.000	1882H	50.0	51.4	
11 3,5-Dinitroaniline							
1	30.326	30.326	0.000	4064H	50.0	47.2	
12 RDX							
1	30.969	30.969	0.000	2344H	50.0	49.8	
13 2,4-Dinitrotoluene							
1	31.709	31.709	0.000	4413H	50.0	48.1	
14 2,6-Dinitrotoluene							
1	32.616	32.616	0.000	2645H	50.0	48.1	
15 2-Amino-4,6-dinitrotoluene							M
1	34.879	34.879	0.000	3747H	50.0	47.5	M
16 4-Amino-2,6-dinitrotoluene							
1	35.302	35.302	0.000	3071H	50.0	46.5	
$ 17 3,4-Dinitrotoluene							
1	37.005	37.005	0.000	2282H	50.0	48.2	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.852	38.852	0.000	3735H	50.0	47.9	
19 HMX							
1	40.939	40.939	0.000	2891H	50.0	48.5	
20 Nitroglycerin							
2	43.315	43.315	0.000	4240H	50.0	47.9	
21 Tetryl							
1	45.042	45.042	0.000	5466H	50.0	46.7	
22 PETN							M
2	51.585	51.585	0.000	6466H	50.0	48.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L4_00023 Amount Added: 1.00 Units: mL

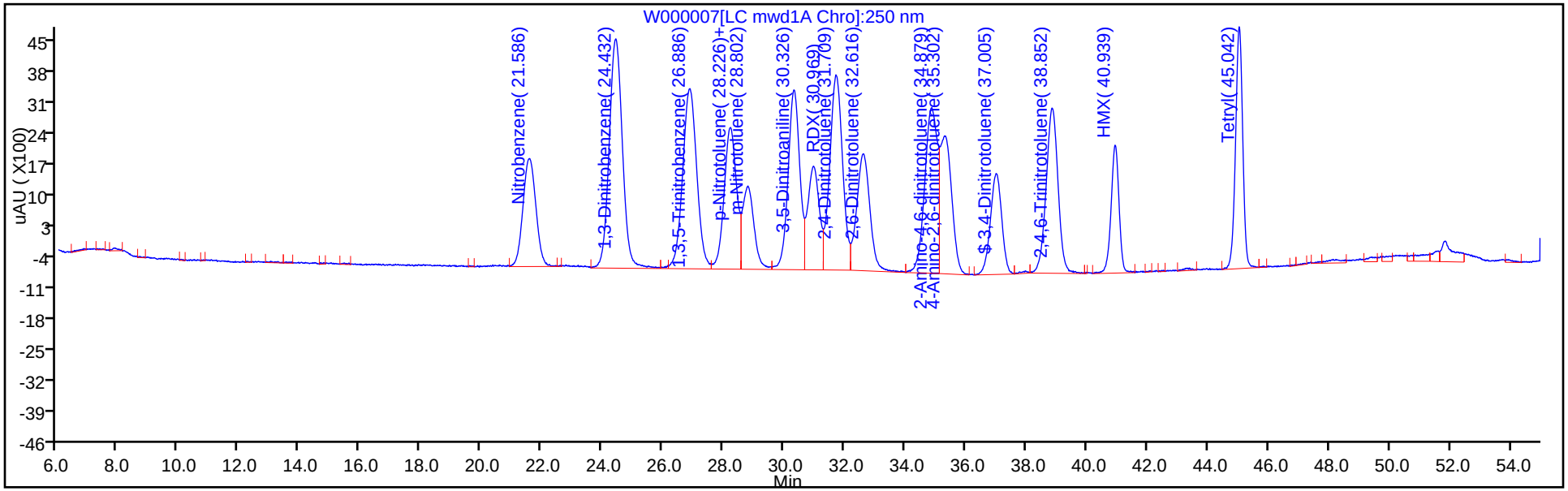
Report Date: 26-Jan-2015 12:47:28 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

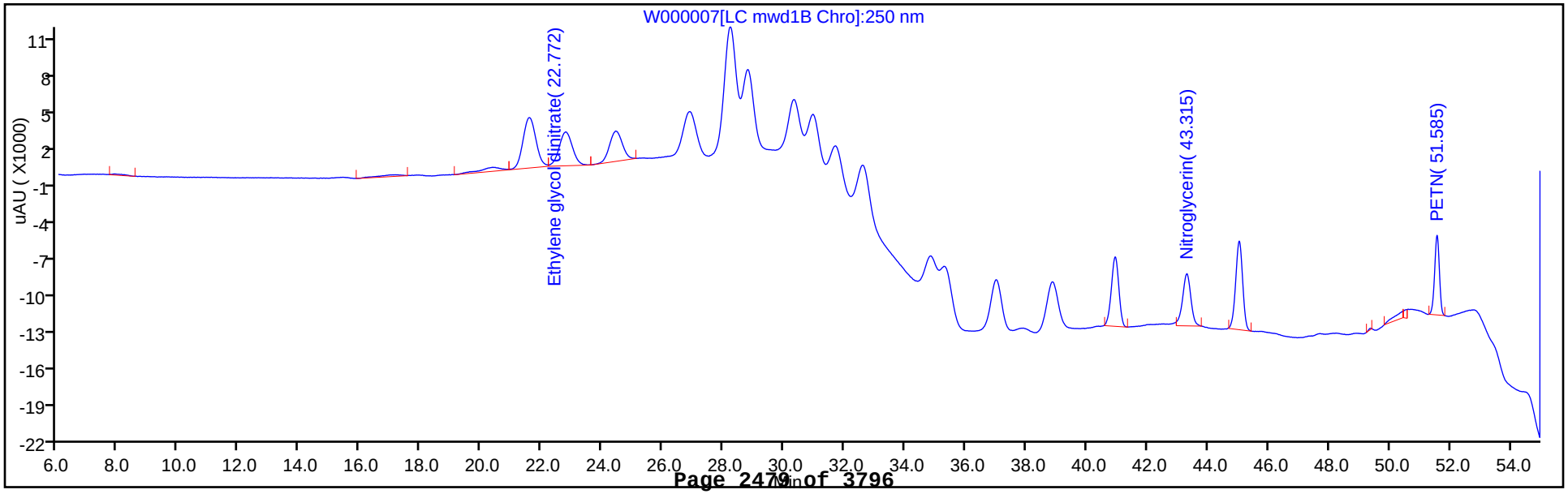
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000007.D

Injection Date:	23-Jan-2015 17:54:49	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	STD4			Worklist Smp#:	7
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

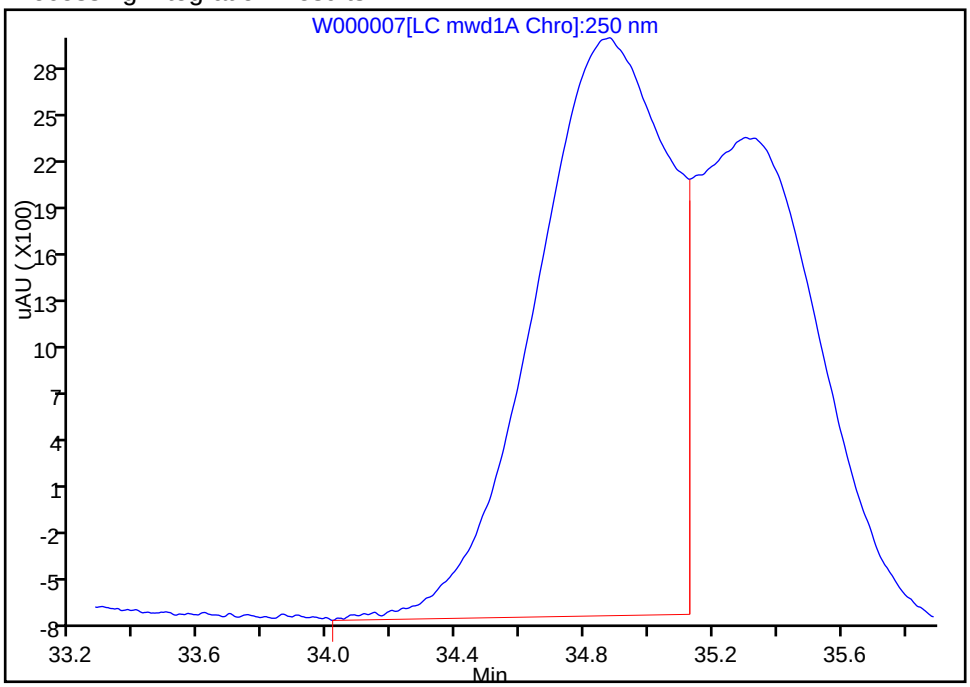
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000007.D
Injection Date: 23-Jan-2015 17:54:49 Instrument ID: LC9
Lims ID: STD4
Client ID:
Operator ID: TQP ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

15 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

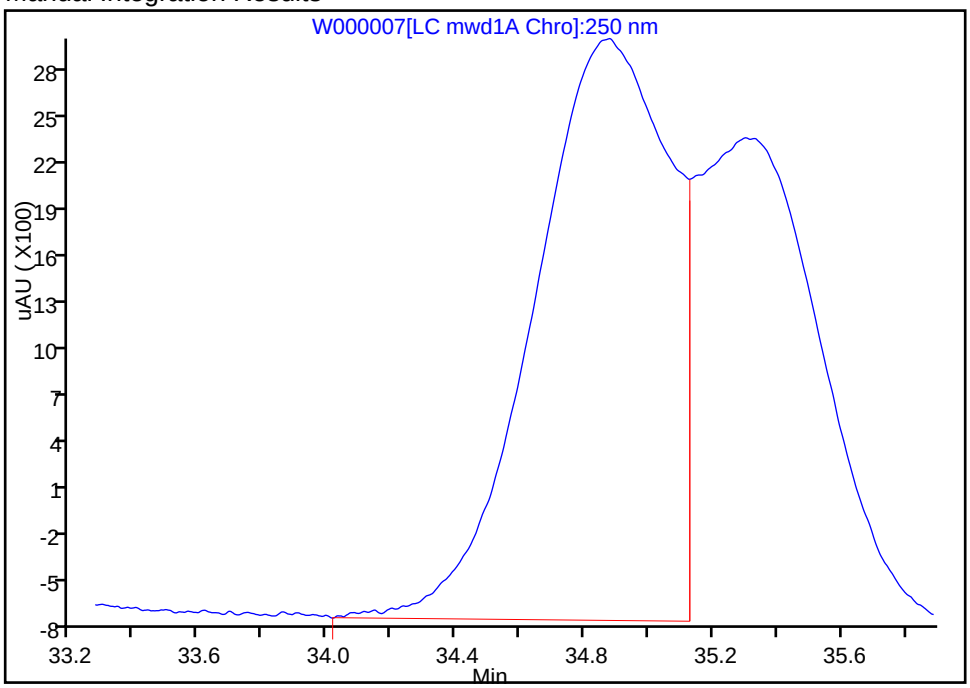
Processing Integration Results

RT: 34.88
Height: 3702
Amount: 47.002106
Amount Units: ng/ml



Manual Integration Results

RT: 34.88
Height: 3747
Amount: 47.495912
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:25:54
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

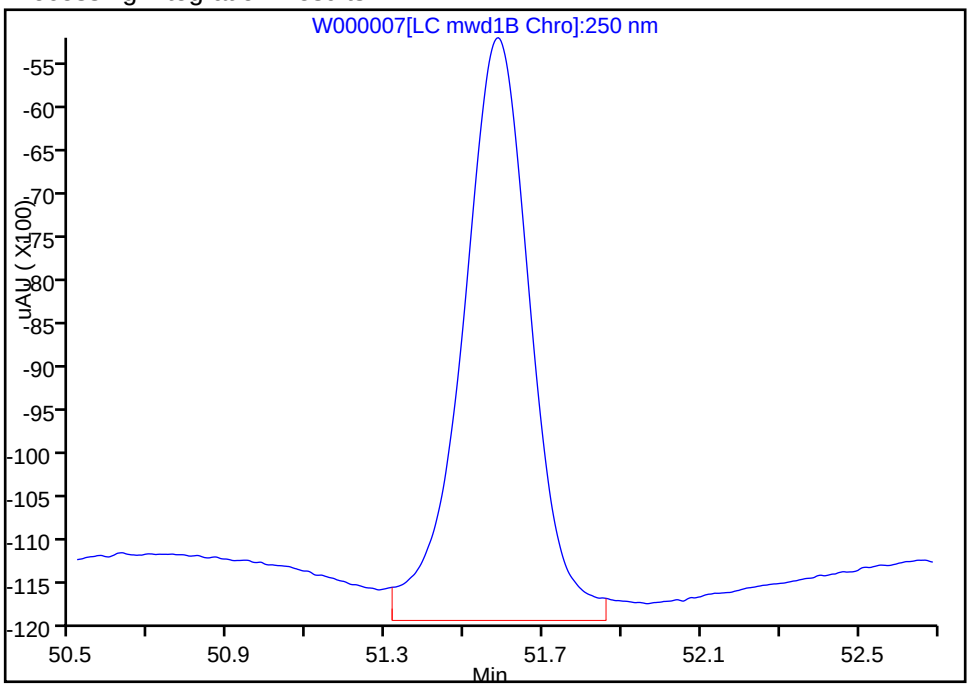
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000007.D
Injection Date: 23-Jan-2015 17:54:49 Instrument ID: LC9
Lims ID: STD4
Client ID:
Operator ID: TQP ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

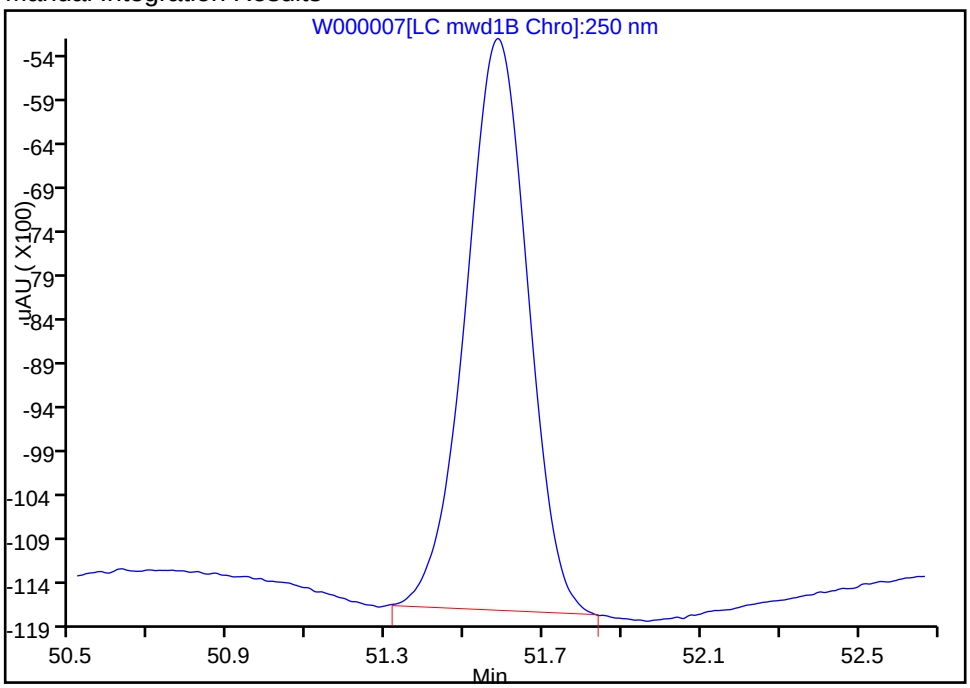
Processing Integration Results

RT: 51.59
Height: 6785
Amount: 47.069585
Amount Units: ng/ml



Manual Integration Results

RT: 51.59
Height: 6466
Amount: 47.972816
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:25:54
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000008.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jan-2015 19:01:32 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-008
Operator ID: TQP Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:30 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:03:36

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.558	21.586	-0.028	4920H	100.0	102.0	
4 Ethylene glycol dinitrate							
2	22.761	22.772	-0.011	5296H	100.0	103.4	
5 1,3-Dinitrobenzene							
1	24.411	24.432	-0.021	10441H	100.0	98.9	
7 1,3,5-Trinitrobenzene							
1	26.861	26.886	-0.025	8272H	100.0	97.2	
9 p-Nitrotoluene							
1	28.201	28.226	-0.025	6449H	100.0	99.6	
8 o-Nitrotoluene							
1	28.201	28.226	-0.025	6449H	100.0	99.6	
10 m-Nitrotoluene							
1	28.771	28.802	-0.031	3750H	100.0	104.7	
11 3,5-Dinitroaniline							
1	30.308	30.326	-0.018	8287H	100.0	96.3	
12 RDX							
1	30.945	30.969	-0.024	4736H	100.0	103.7	
13 2,4-Dinitrotoluene							
1	31.691	31.709	-0.018	8991H	100.0	98.1	
14 2,6-Dinitrotoluene							
1	32.581	32.616	-0.035	5349H	100.0	97.2	
15 2-Amino-4,6-dinitrotoluene							
1	34.845	34.879	-0.034	7707H	100.0	97.7	
16 4-Amino-2,6-dinitrotoluene							
1	35.271	35.302	-0.031	6441H	100.0	97.5	
$ 17 3,4-Dinitrotoluene							
1	36.978	37.005	-0.027	4469H	100.0	94.3	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.831	38.852	-0.021	7565H	100.0	97.0	
19 HMX							
1	40.924	40.939	-0.015	5848H	100.0	98.1	
20 Nitroglycerin							
2	43.298	43.315	-0.017	8168H	100.0	92.3	
21 Tetryl							
1	45.031	45.042	-0.011	11240H	100.0	96.1	
22 PETN							M
2	51.574	51.585	-0.011	13251H	100.0	98.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L5_00032 Amount Added: 1.00 Units: mL

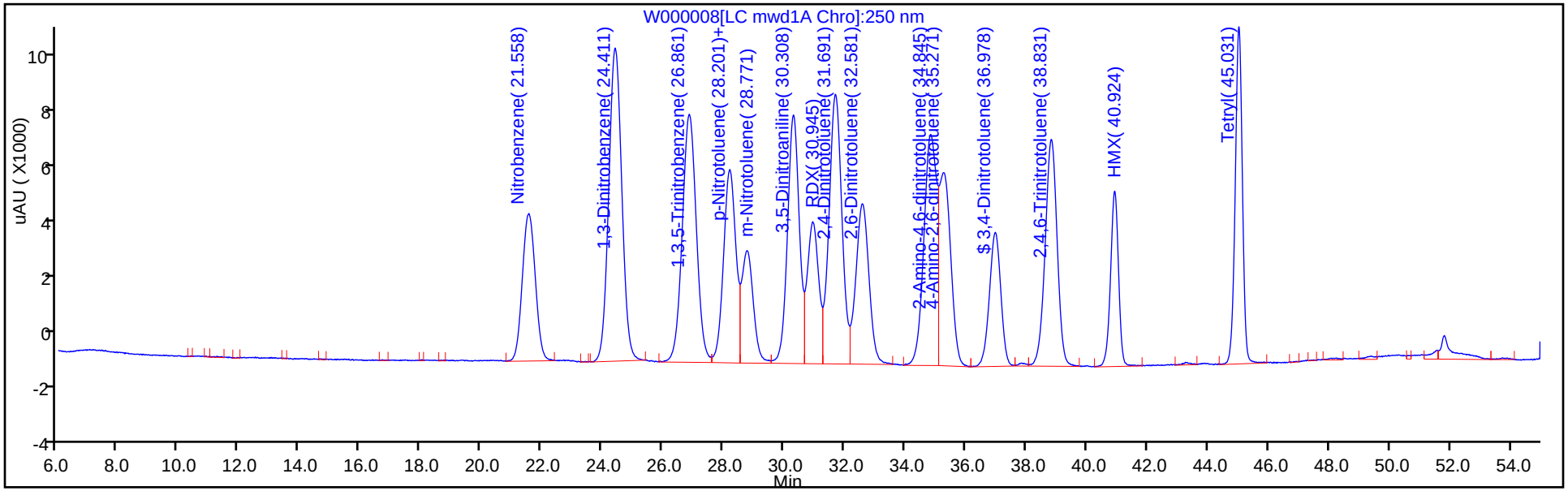
Report Date: 26-Jan-2015 12:47:30 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

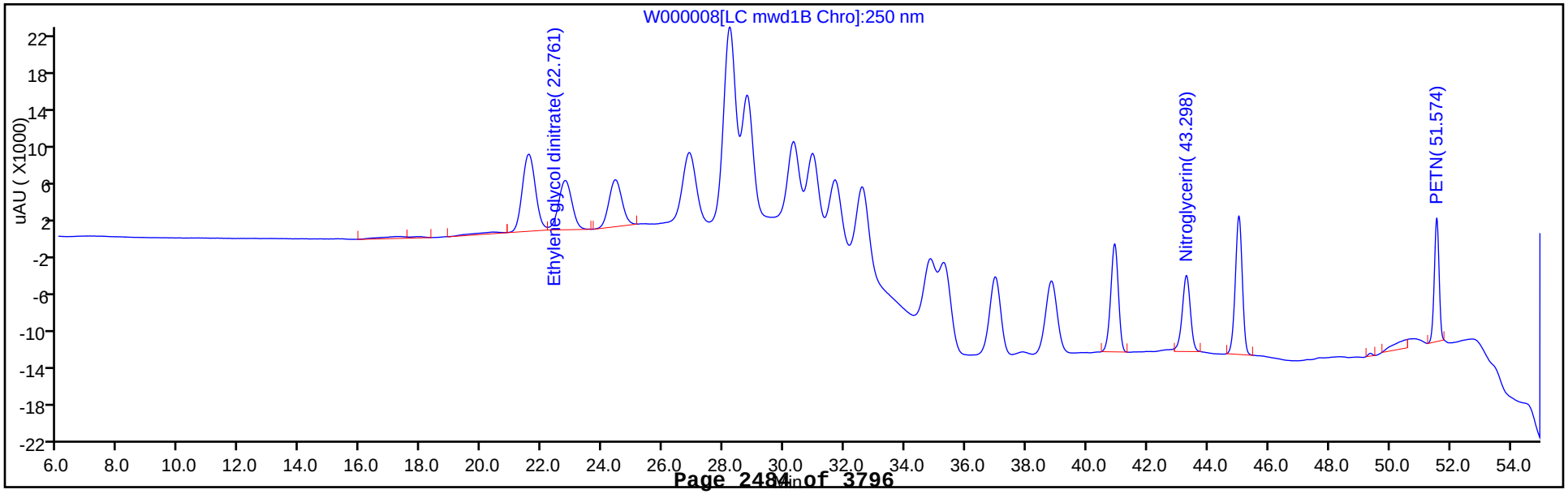
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000008.D

Injection Date:	23-Jan-2015 19:01:32	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	STD5			Worklist Smp#:	8
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

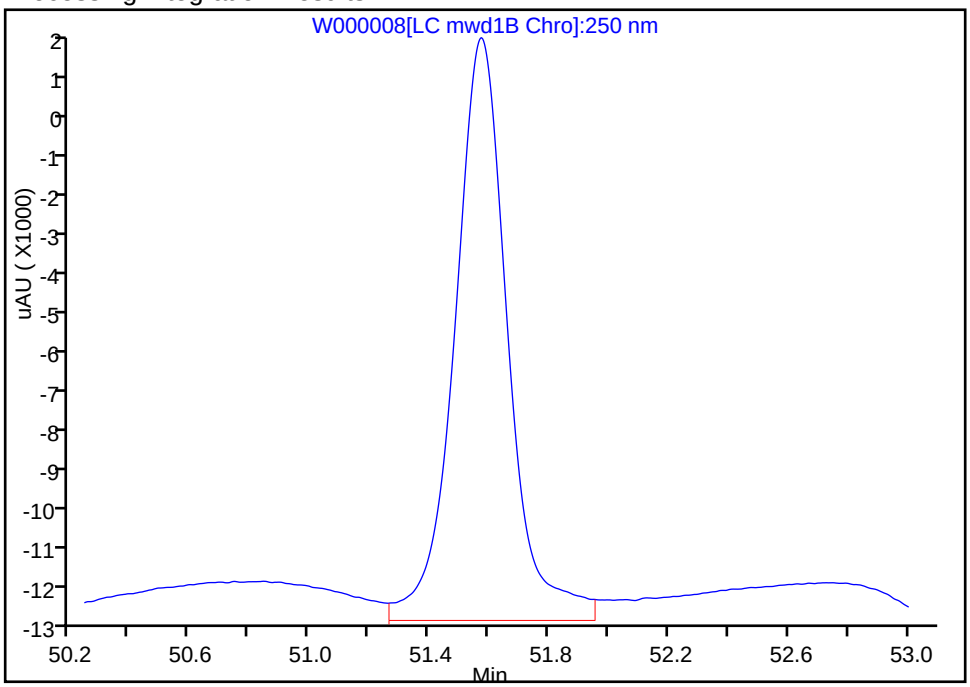
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000008.D
Injection Date: 23-Jan-2015 19:01:32 Instrument ID: LC9
Lims ID: STD5
Client ID:
Operator ID: TQP ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

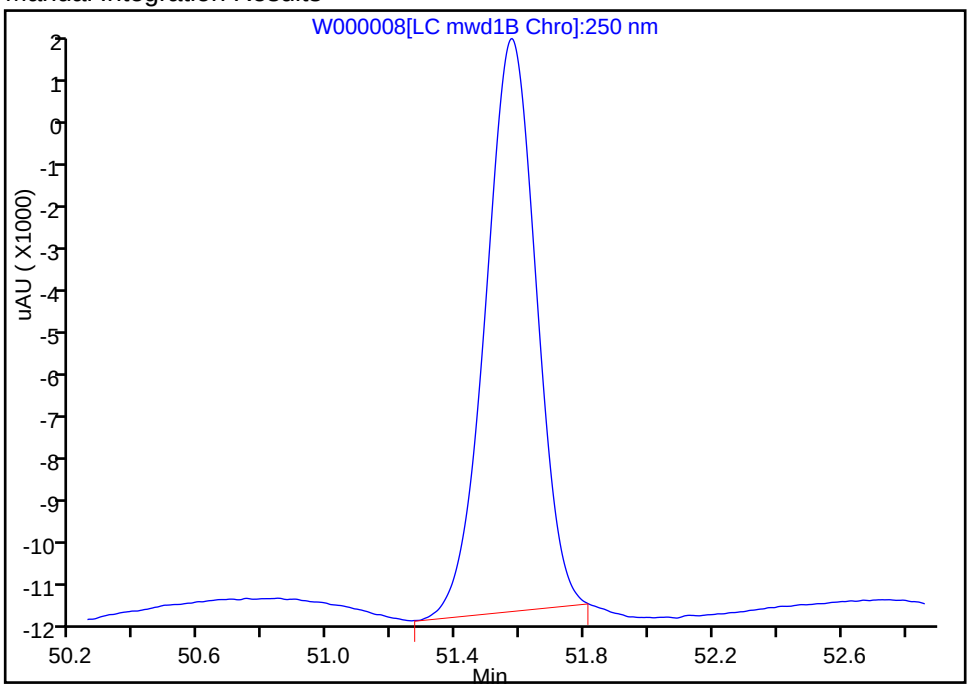
Processing Integration Results

RT: 51.57
Height: 13876
Amount: 96.272479
Amount Units: ng/ml



Manual Integration Results

RT: 51.57
Height: 13251
Amount: 98.312370
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:25:07
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000009.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jan-2015 20:08:16 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-009
Operator ID: TQP Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:31 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:03:54

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.544	21.586	-0.042	9235H	200.0	191.4	
4 Ethylene glycol dinitrate							
2	22.747	22.772	-0.025	10127H	200.0	202.0	
5 1,3-Dinitrobenzene							
1	24.394	24.432	-0.038	19873H	200.0	188.2	
7 1,3,5-Trinitrobenzene							
1	26.851	26.886	-0.035	15855H	200.0	186.3	
9 p-Nitrotoluene							
1	28.187	28.226	-0.039	12214H	200.0	188.7	
8 o-Nitrotoluene							
1	28.187	28.226	-0.039	12214H	200.0	188.7	
10 m-Nitrotoluene							
1	28.757	28.802	-0.045	7131H	200.0	201.3	
11 3,5-Dinitroaniline							
1	30.294	30.326	-0.032	15722H	200.0	182.7	
12 RDX							
1	30.931	30.969	-0.038	8949H	200.0	198.5	
13 2,4-Dinitrotoluene							
1	31.681	31.709	-0.028	17158H	200.0	187.1	
14 2,6-Dinitrotoluene							
1	32.574	32.616	-0.042	10220H	200.0	185.7	
15 2-Amino-4,6-dinitrotoluene							
1	34.831	34.879	-0.048	14771H	200.0	187.2	
16 4-Amino-2,6-dinitrotoluene							
1	35.257	35.302	-0.045	12470H	200.0	188.8	
$ 17 3,4-Dinitrotoluene							
1	36.964	37.005	-0.041	8736H	200.0	184.4	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.824	38.852	-0.028	15043H	200.0	193.0	
19 HMX							
1	40.914	40.939	-0.025	11296H	200.0	189.4	
20 Nitroglycerin							
2	43.304	43.315	-0.011	15998H	200.0	180.8	
21 Tetryl							
1	45.034	45.042	-0.008	22541H	200.0	192.8	
22 PETN							M
2	51.574	51.585	-0.011	26616H	200.0	197.5	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L6_00026 Amount Added: 1.00 Units: mL

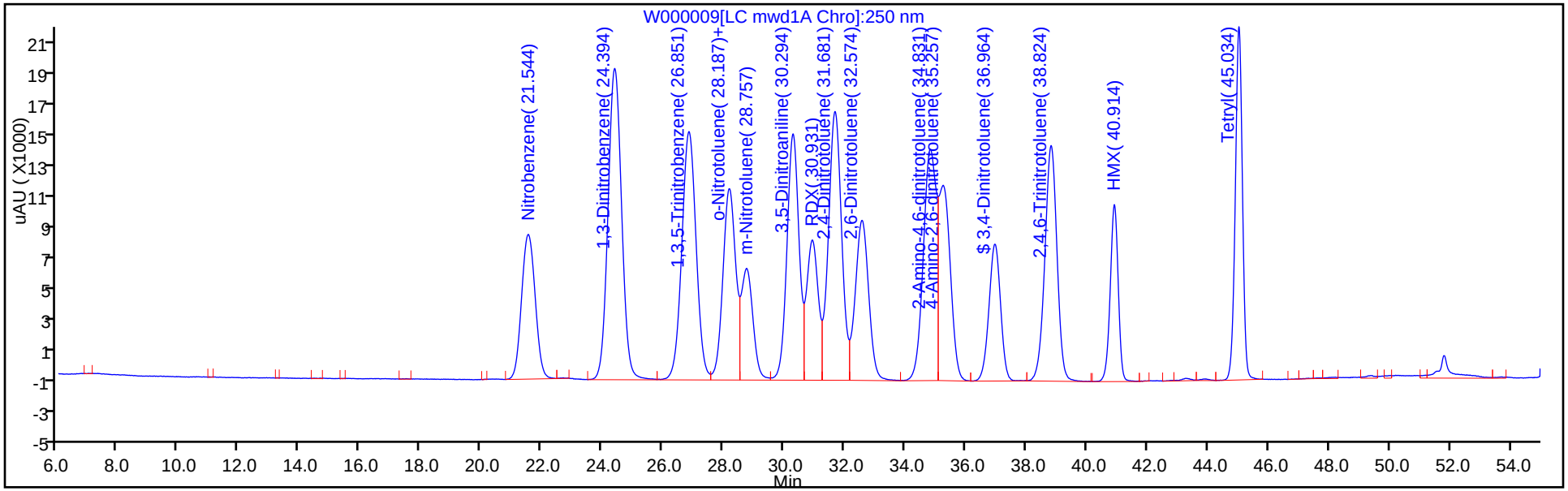
Report Date: 26-Jan-2015 12:47:32 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

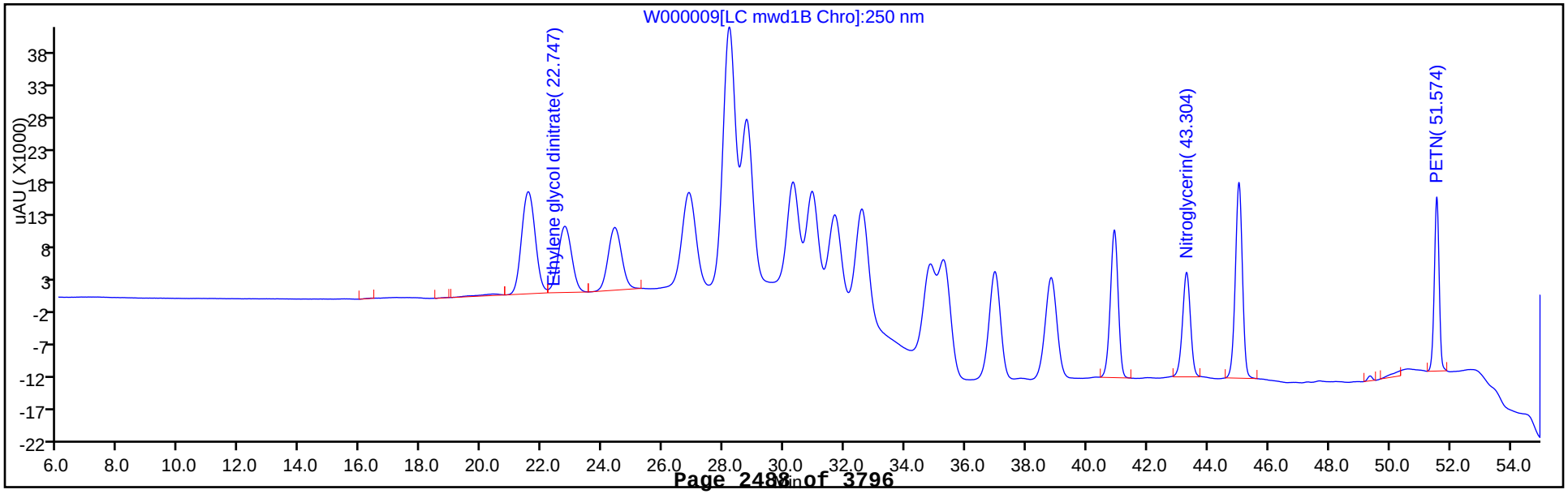
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000009.D

Injection Date:	23-Jan-2015 20:08:16	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	STD6			Worklist Smp#:	9
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

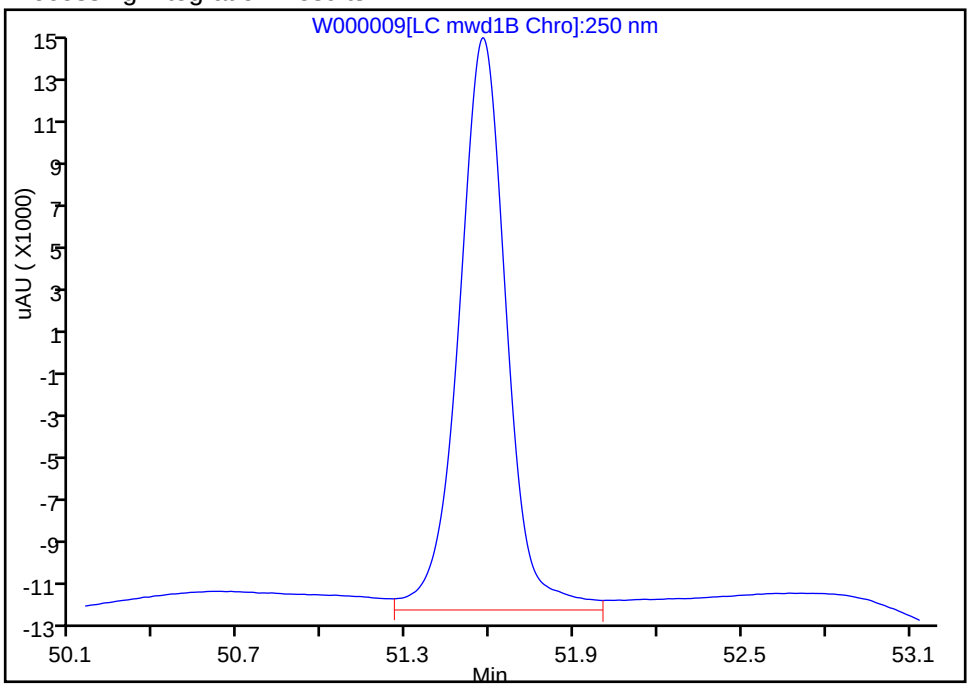
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC9\20150123-18933.b\W000009.D				
Injection Date:	23-Jan-2015 20:08:16	Instrument ID:	LC9		
Lims ID:	STD6				
Client ID:					
Operator ID:	TQP	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		
Column:	Zorbax Cyano CN (4.60 mm)	Detector	LC mwd1B, 358 nm		

22 PETN, CAS: 78-11-5

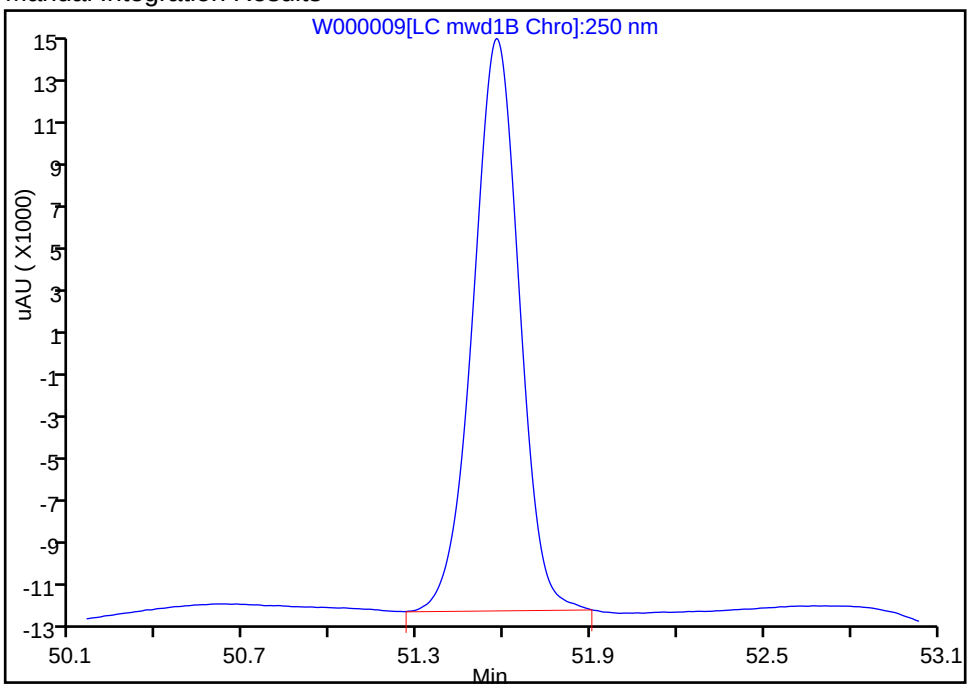
Processing Integration Results

RT: 51.57
Height: 27177
Amount: 189.1151
Amount Units: ng/ml



Manual Integration Results

RT: 51.57
Height: 26616
Amount: 197.4705
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:24:40
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jan-2015 21:15:02 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-010
Operator ID: TQP Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:33 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:04:11

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.482	21.586	-0.104	21805H	500.0	451.8	
4 Ethylene glycol dinitrate							
2	22.706	22.772	-0.066	24013H	500.0	485.4	
5 1,3-Dinitrobenzene							
1	24.346	24.432	-0.086	47510H	500.0	449.9	
7 1,3,5-Trinitrobenzene							
1	26.799	26.886	-0.087	38618H	500.0	453.7	
9 p-Nitrotoluene							
1	28.119	28.226	-0.107	29374H	500.0	453.7	
8 o-Nitrotoluene							
1	28.119	28.226	-0.107	29374H	500.0	453.7	
10 m-Nitrotoluene							
1	28.686	28.802	-0.116	17137H	500.0	486.9	
11 3,5-Dinitroaniline							
1	30.229	30.326	-0.097	37962H	500.0	441.1	
12 RDX							
1	30.862	30.969	-0.107	21573H	500.0	482.8	
13 2,4-Dinitrotoluene							
1	31.612	31.709	-0.097	41718H	500.0	455.0	
14 2,6-Dinitrotoluene							
1	32.502	32.616	-0.114	24991H	500.0	454.1	
15 2-Amino-4,6-dinitrotoluene							
1	34.762	34.879	-0.117	36336H	500.0	460.6	
16 4-Amino-2,6-dinitrotoluene							
1	35.162	35.302	-0.140	31028H	500.0	469.7	
$ 17 3,4-Dinitrotoluene							
1	36.895	37.005	-0.110	21611H	500.0	456.2	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.769	38.852	-0.083	35917H	500.0	460.8	
19 HMX							
1	40.879	40.939	-0.060	27492H	500.0	461.0	
20 Nitroglycerin							
2	43.259	43.315	-0.056	39085H	500.0	441.6	
21 Tetryl							
1	44.979	45.042	-0.063	54707H	500.0	467.9	
22 PETN							M
2	51.549	51.585	-0.036	64849H	500.0	481.1	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L7_00016 Amount Added: 1.00 Units: mL

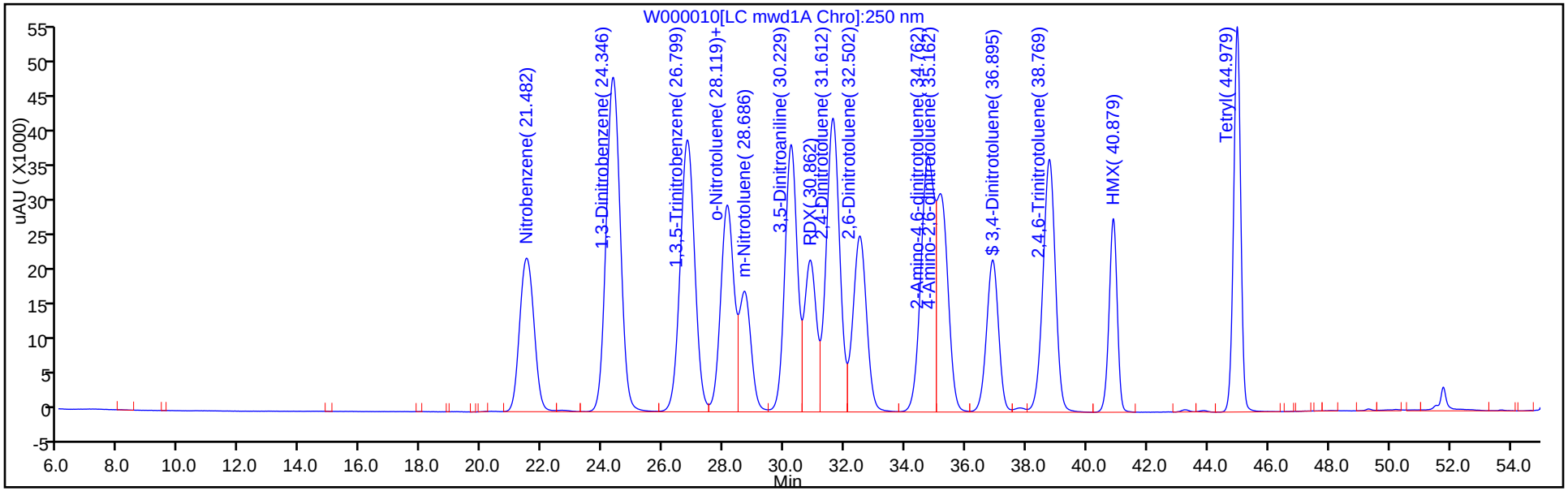
Report Date: 26-Jan-2015 12:47:33 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

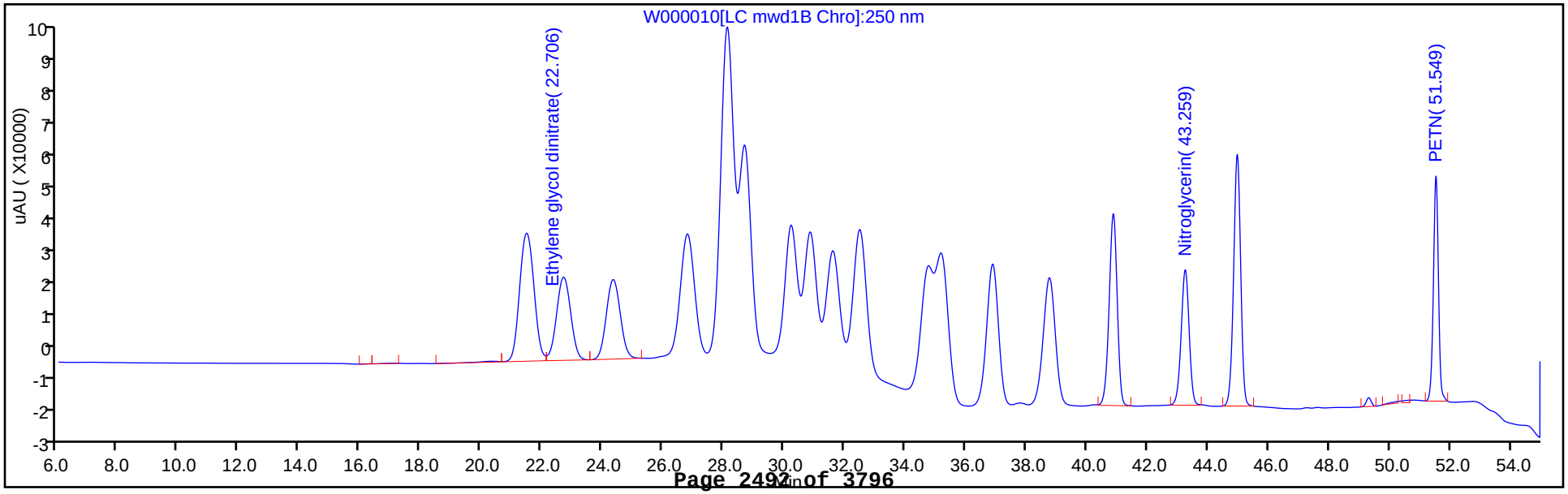
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Injection Date:	23-Jan-2015 21:15:02	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	STD7			Worklist Smp#:	10
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

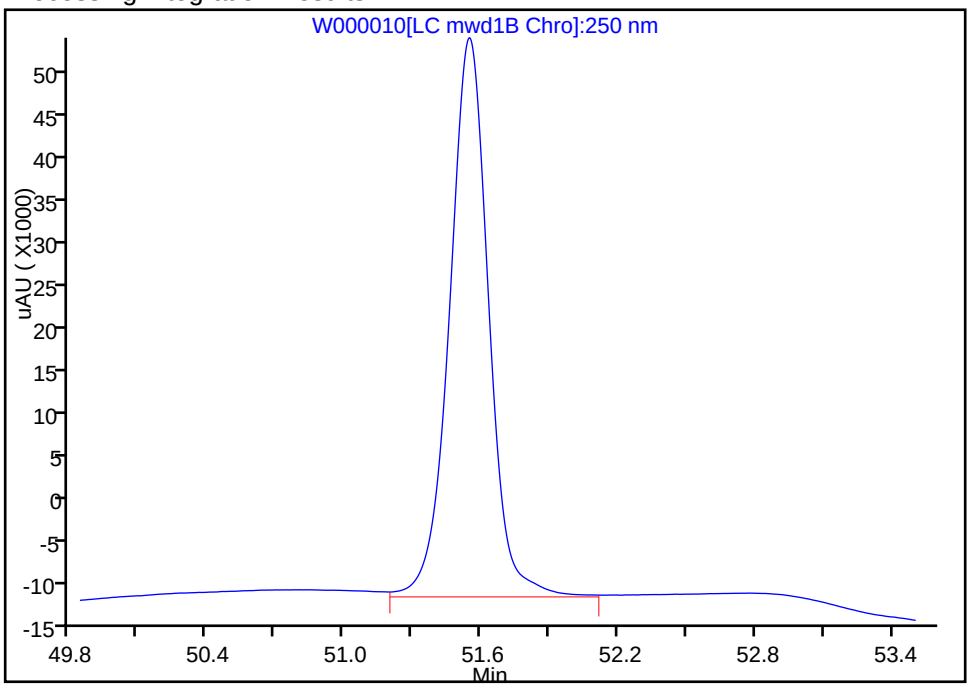
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D
Injection Date: 23-Jan-2015 21:15:02 Instrument ID: LC9
Lims ID: STD7
Client ID:
Operator ID: TQP ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

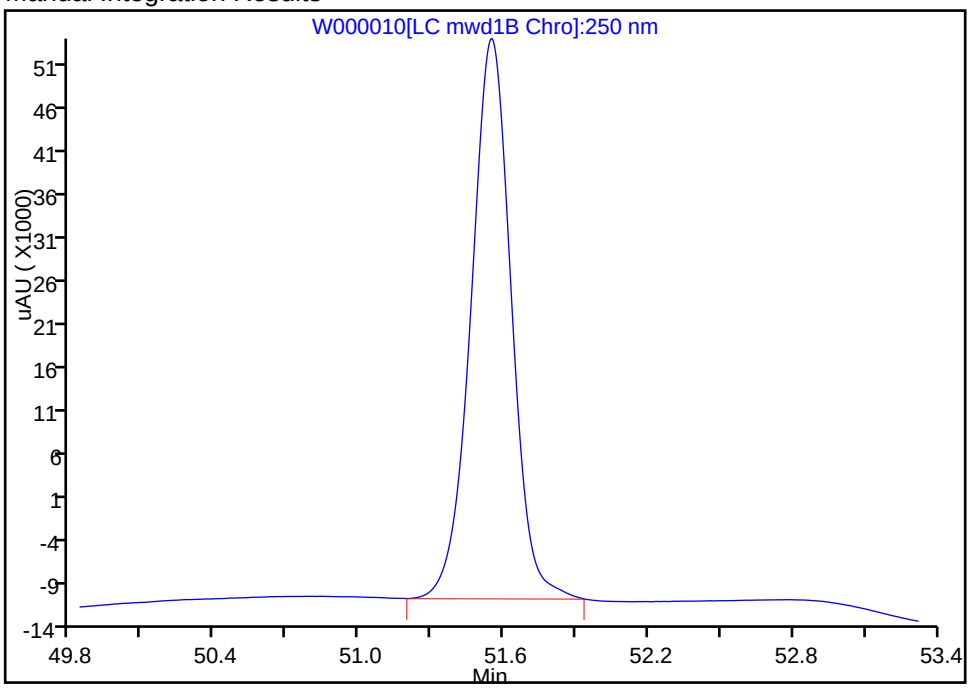
Processing Integration Results

RT: 51.55
Height: 65381
Amount: 434.0495
Amount Units: ng/ml



Manual Integration Results

RT: 51.55
Height: 64849
Amount: 481.1304
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:04:11
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 320-67883/12 Calibration Date: 03/11/2015 21:36

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000015.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	153.2		208	200	4.2	20.0
RDX	Ave	101.4	101.4		200	200	0.0	20.0
Ethylene glycol dinitrate	Ave	120.7	117.5		195	200	-2.6	20.0
Picric acid	Ave	130.7	122.9		470	500	-6.0	20.0
1,3,5-Trinitrobenzene	Ave	194.5	192.2		198	200	-1.1	20.0
1,3-Dinitrobenzene	Ave	186.8	188.0		201	200	0.6	20.0
3,5-Dinitroaniline	Ave	123.0	114.9		187	200	-6.6	20.0
Tetryl	Ave	111.0	116.3		210	200	4.8	20.0
Nitrobenzene	Ave	84.47	85.70		203	200	1.4	20.0
Nitroglycerin	Ave	76.63	75.99		198	200	-0.8	20.0
2,4,6-Trinitrotoluene	Ave	113.7	119.5		210	200	5.1	20.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	91.47		200	200	-0.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	101.8		199	200	-0.4	20.0
2,6-Dinitrotoluene	Ave	71.94	73.30		204	200	1.9	20.0
2,4-Dinitrotoluene	Ave	118.3	119.3		202	200	0.9	20.0
2-Nitrotoluene	Ave	52.41	51.47		196	200	-1.8	20.0
4-Nitrotoluene	Ave	62.96	61.65		196	200	-2.1	20.0
3-Nitrotoluene	Ave	59.21	61.46		208	200	3.8	20.0
PETN	Ave	44.44	43.56		196	200	-2.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 320-67883/12 Calibration Date: 03/11/2015 21:36

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000015.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.15	4.90	5.40
RDX	7.40	7.16	7.66
Ethylene glycol dinitrate	8.05	7.81	8.31
Picric acid	8.52	8.33	8.83
1,3,5-Trinitrobenzene	9.62	9.37	9.87
1,3-Dinitrobenzene	12.20	11.96	12.46
3,5-Dinitroaniline	12.92	12.68	13.18
Tetryl	13.44	13.20	13.70
Nitrobenzene	13.92	13.69	14.19
Nitroglycerin	14.74	14.50	15.00
2,4,6-Trinitrotoluene	15.44	15.19	15.69
4-Amino-2,6-dinitrotoluene	16.08	15.84	16.34
2-Amino-4,6-dinitrotoluene	16.94	16.70	17.20
2,6-Dinitrotoluene	18.52	18.28	18.78
2,4-Dinitrotoluene	19.08	18.84	19.34
2-Nitrotoluene	22.45	22.21	22.71
4-Nitrotoluene	24.08	23.83	24.33
3-Nitrotoluene	25.84	25.59	26.09
PETN	28.31	28.06	28.56

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000015.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 11-Mar-2015 21:36:48 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-012
Operator ID: YPH Instrument ID: LC10
Sublist:

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:03:41 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:46

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.148	5.149	-0.001	30648H	200.0	208.3	
19 RDX							
1	7.398	7.406	-0.008	20278H	200.0	200.0	
3 Ethylene glycol dinitrate							
2	8.048	8.056	-0.008	23507H	200.0	194.8	
10 2,4,6-Trinitrophenol							
2	8.522	8.579	-0.057	61435H	500.0	470.1	
1	8.522	8.579	-0.057	42152H	500.0	458.8	
27 1,3,5-Trinitrobenzene							
1	9.615	9.623	-0.008	38448H	200.0	197.7	
24 1,3-Dinitrobenzene							
1	12.202	12.209	-0.007	37590H	200.0	201.2	
9 3,5-Dinitroaniline							
1	12.922	12.929	-0.007	22978H	200.0	186.8	
20 Tetryl							
1	13.442	13.449	-0.007	23257H	200.0	209.5	
5 Nitrobenzene							
1	13.922	13.939	-0.017	17139H	200.0	202.9	
7 Nitroglycerin							
2	14.739	14.749	-0.010	15198H	200.0	198.3	
25 2,4,6-Trinitrotoluene							
1	15.435	15.443	-0.008	23898H	200.0	210.3	
26 4-Amino-2,6-dinitrotoluene							
1	16.082	16.093	-0.011	18293H	200.0	199.9	
6 2-Amino-4,6-dinitrotoluene							
1	16.942	16.949	-0.007	20352H	200.0	199.3	
12 2,6-Dinitrotoluene							
1	18.519	18.526	-0.007	14659H	200.0	203.8	
23 2,4-Dinitrotoluene							
1	19.079	19.093	-0.014	23862H	200.0	201.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
16 o-Nitrotoluene							
1	22.449	22.463	-0.014	10293H	200.0	196.4	
15 p-Nitrotoluene							
1	24.079	24.083	-0.004	12330H	200.0	195.8	
8 m-Nitrotoluene							
1	25.842	25.843	-0.001	12292H	200.0	207.6	
21 PETN							M
2	28.309	28.309	0.000	8711H	200.0	196.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330IC_00028 Amount Added: 1.00 Units: mL

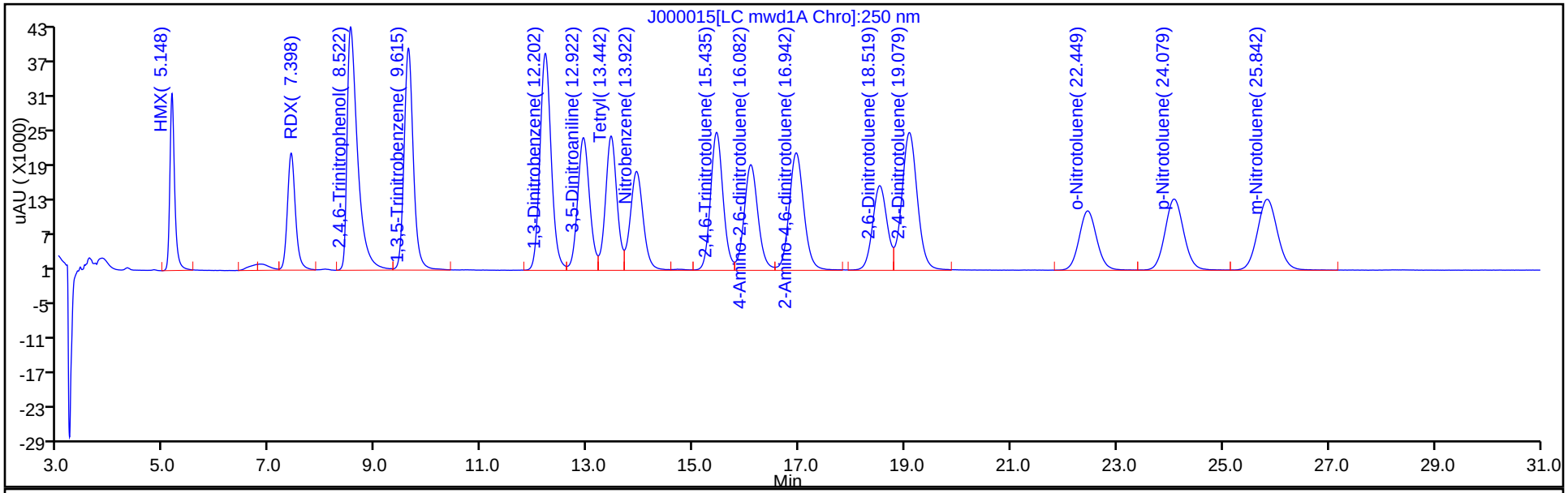
Report Date: 12-Mar-2015 11:04:14 Chrom Revision: 2.2 06-Mar-2015 13:13:48

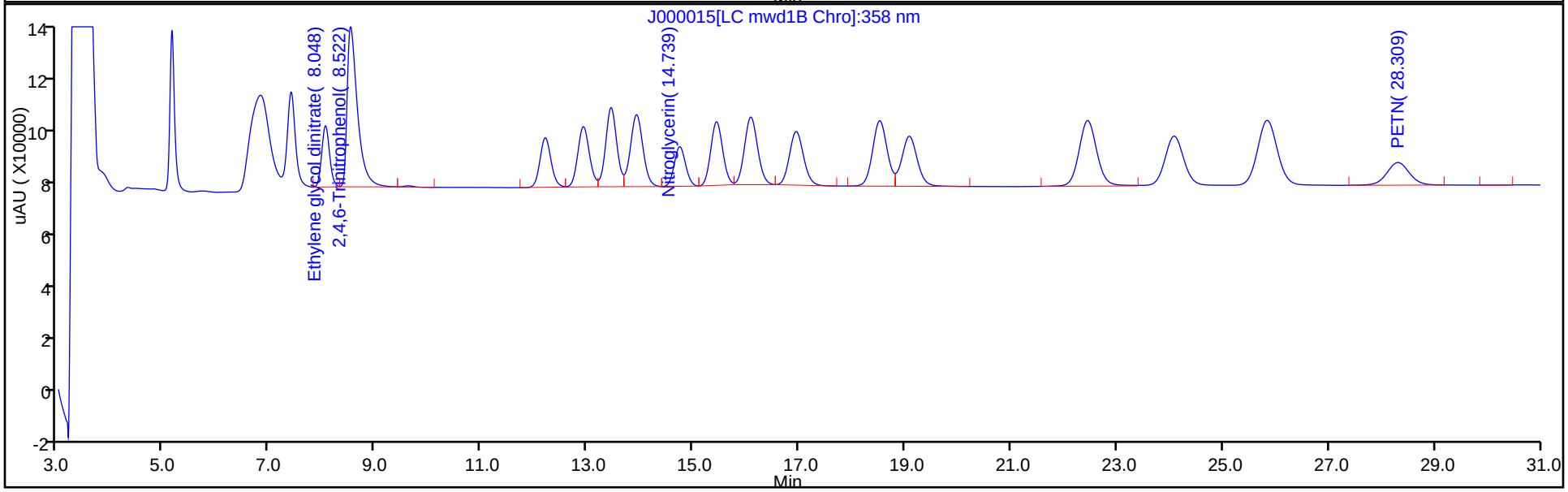
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000015.D

Injection Date:	11-Mar-2015 21:36:48	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

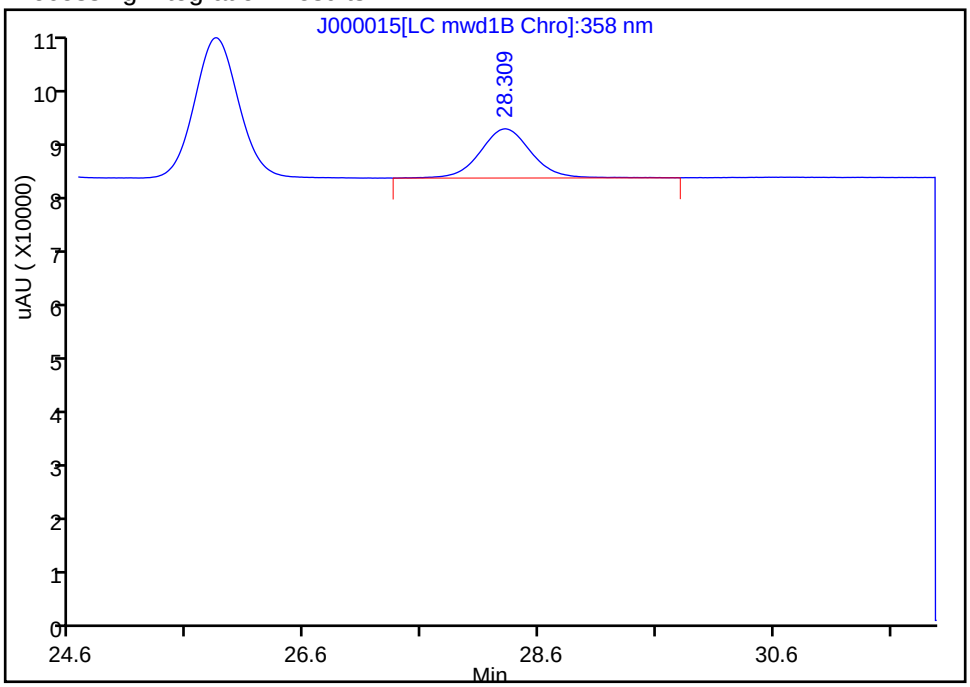
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000015.D
Injection Date: 11-Mar-2015 21:36:48 Instrument ID: LC10
Lims ID: ICV
Client ID:
Operator ID: YPH ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

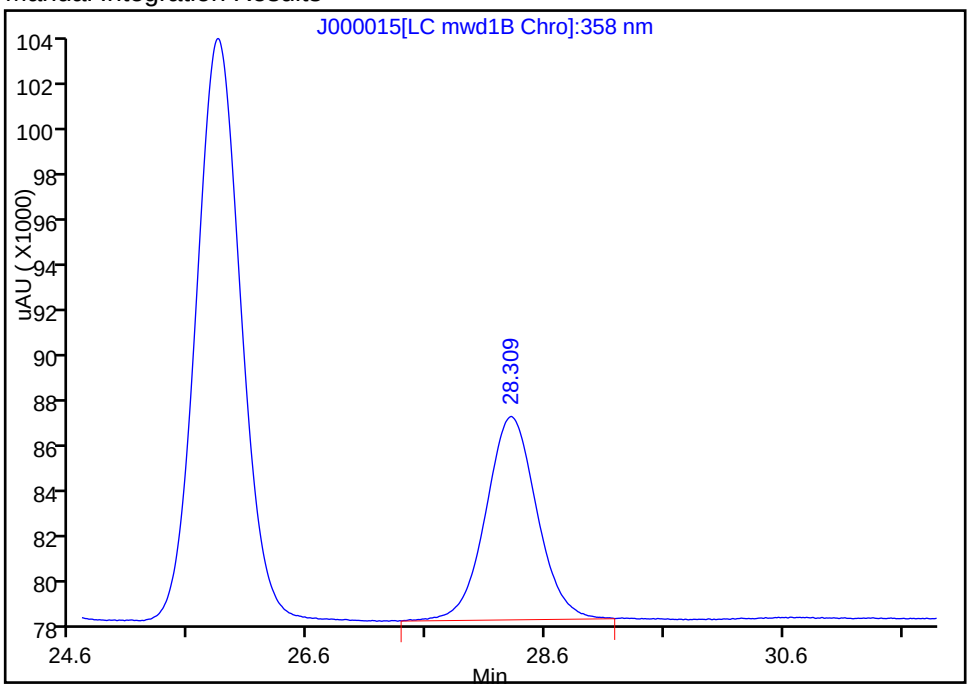
Processing Integration Results

RT: 28.31
Height: 8747
Amount: 194.2303
Amount Units: ng/ml



Manual Integration Results

RT: 28.31
Height: 8711
Amount: 196.0127
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:43:30
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 320-67883/13 Calibration Date: 03/11/2015 22:20

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000016.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	147.0		5.00	5.00	-0.0	
RDX	Ave	101.4	117.2		5.78	5.00	15.6	
Ethylene glycol dinitrate	Ave	120.7	123.9		20.5	20.0	2.6	
Picric acid	Ave	130.7	135.5		20.7	20.0	3.7	
1,3,5-Trinitrobenzene	Ave	194.5	208.2		5.35	5.00	7.1	
1,3-Dinitrobenzene	Ave	186.8	201.2		5.38	5.00	7.7	
3,5-Dinitroaniline	Ave	123.0	130.8		5.32	5.00	6.3	
Tetryl	Ave	111.0	126.0		5.68	5.00	13.5	
Nitrobenzene	Ave	84.47	92.20		5.46	5.00	9.1	
Nitroglycerin	Ave	76.63	81.50		21.3	20.0	6.4	
2,4,6-Trinitrotoluene	Ave	113.7	123.4		5.43	5.00	8.6	
4-Amino-2,6-dinitrotoluene	Ave	91.51	90.60		4.95	5.00	-1.0	
2-Amino-4,6-dinitrotoluene	Ave	102.1	105.2		5.15	5.00	3.0	
2,6-Dinitrotoluene	Ave	71.94	77.80		5.41	5.00	8.1	
2,4-Dinitrotoluene	Ave	118.3	131.2		5.55	5.00	10.9	
2-Nitrotoluene	Ave	52.41	56.80		5.42	5.00	8.4	
4-Nitrotoluene	Ave	62.96	67.40		5.35	5.00	7.1	
3-Nitrotoluene	Ave	59.21	65.20		5.51	5.00	10.1	
PETN	Ave	44.44	45.05		20.3	20.0	1.4	
3,4-Dinitrotoluene	Ave	67.04	70.20		5.24	5.00	4.7	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 320-67883/13 Calibration Date: 03/11/2015 22:20

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.15	4.90	5.40
RDX	7.40	7.16	7.66
Ethylene glycol dinitrate	8.05	7.81	8.31
Picric acid	8.63	8.33	8.83
1,3,5-Trinitrobenzene	9.62	9.37	9.87
1,3-Dinitrobenzene	12.21	11.96	12.46
3,5-Dinitroaniline	12.92	12.68	13.18
Tetryl	13.47	13.20	13.70
Nitrobenzene	13.94	13.69	14.19
Nitroglycerin	14.76	14.50	15.00
2,4,6-Trinitrotoluene	15.44	15.19	15.69
4-Amino-2,6-dinitrotoluene	16.11	15.84	16.34
2-Amino-4,6-dinitrotoluene	16.95	16.70	17.20
2,6-Dinitrotoluene	18.51	18.28	18.78
2,4-Dinitrotoluene	19.10	18.84	19.34
2-Nitrotoluene	22.47	22.21	22.71
4-Nitrotoluene	24.08	23.83	24.33
3-Nitrotoluene	25.88	25.59	26.09
PETN	28.37	28.06	28.56
3,4-Dinitrotoluene	16.55	16.29	16.79

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Lims ID: LODV
Client ID:
Sample Type: LODV
Inject. Date: 11-Mar-2015 22:20:25 ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-013
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:04:20 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:58

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.154	5.149	0.005	735H	5.00	5.00	
19 RDX							
1	7.404	7.406	-0.002	586H	5.00	5.78	
3 Ethylene glycol dinitrate							
2	8.054	8.056	-0.002	2477H	20.0	20.5	
10 2,4,6-Trinitrophenol							
2	8.627	8.579	0.048	2710H	20.0	20.7	
1	8.624	8.579	0.045	1904H	20.0	20.7	
27 1,3,5-Trinitrobenzene							
1	9.624	9.623	0.001	1041H	5.00	5.35	
24 1,3-Dinitrobenzene							M
1	12.211	12.209	0.002	1006H	5.00	5.38	M
9 3,5-Dinitroaniline							M
1	12.921	12.929	-0.008	654H	5.00	5.32	M
20 Tetryl							M
1	13.468	13.449	0.019	630H	5.00	5.68	M
5 Nitrobenzene							M
1	13.944	13.939	0.005	461H	5.00	5.46	M
7 Nitroglycerin							
2	14.764	14.749	0.015	1630H	20.0	21.3	
25 2,4,6-Trinitrotoluene							M
1	15.444	15.443	0.001	617H	5.00	5.43	M
26 4-Amino-2,6-dinitrotoluene							M
1	16.108	16.093	0.015	453H	5.00	4.95	M
$ 30 3,4-Dinitrotoluene							M
1	16.554	16.539	0.015	351H	5.00	5.24	M
2	16.558	16.539	0.019	726H	5.00	5.41	
6 2-Amino-4,6-dinitrotoluene							M
1	16.951	16.949	0.002	526H	5.00	5.15	M
12 2,6-Dinitrotoluene							M
1	18.511	18.526	-0.015	389H	5.00	5.41	M

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							M
1	19.098	19.093	0.005	656H	5.00	5.55	M
16 o-Nitrotoluene							M
1	22.468	22.463	0.005	284H	5.00	5.42	M
15 p-Nitrotoluene							M
1	24.081	24.083	-0.002	337H	5.00	5.35	M
8 m-Nitrotoluene							M
1	25.878	25.843	0.035	326H	5.00	5.51	M
21 PETN							M
2	28.368	28.309	0.059	901H	20.0	20.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330ICL_00019 Amount Added: 1.00 Units: mL

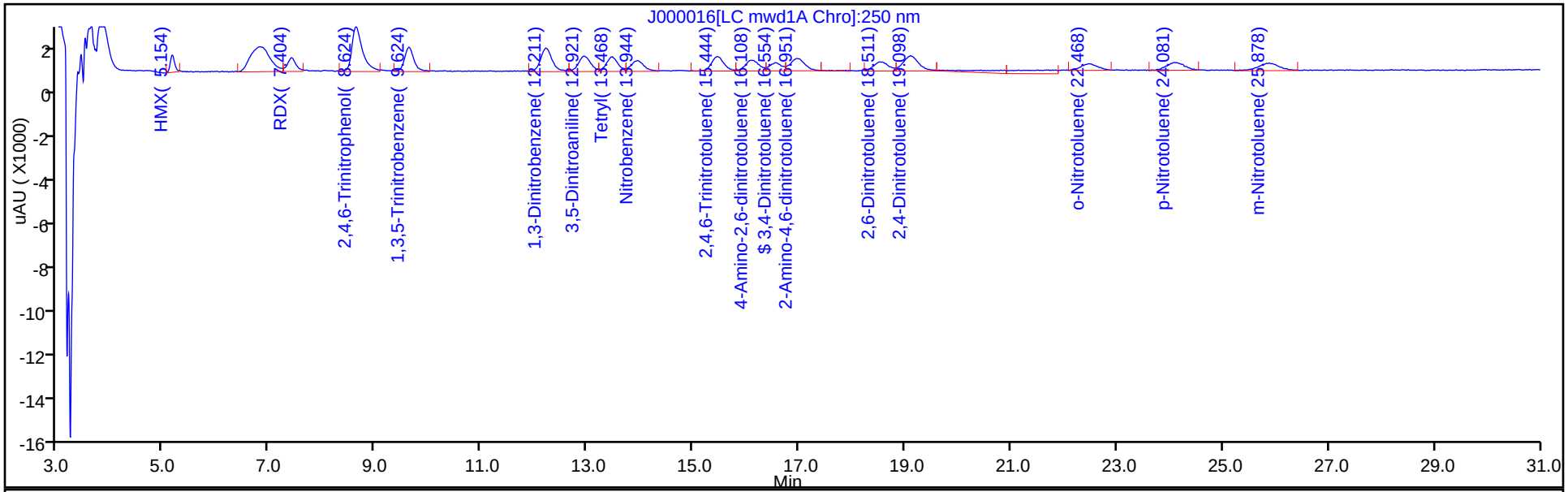
Report Date: 12-Mar-2015 11:04:22 Chrom Revision: 2.2 06-Mar-2015 13:13:48

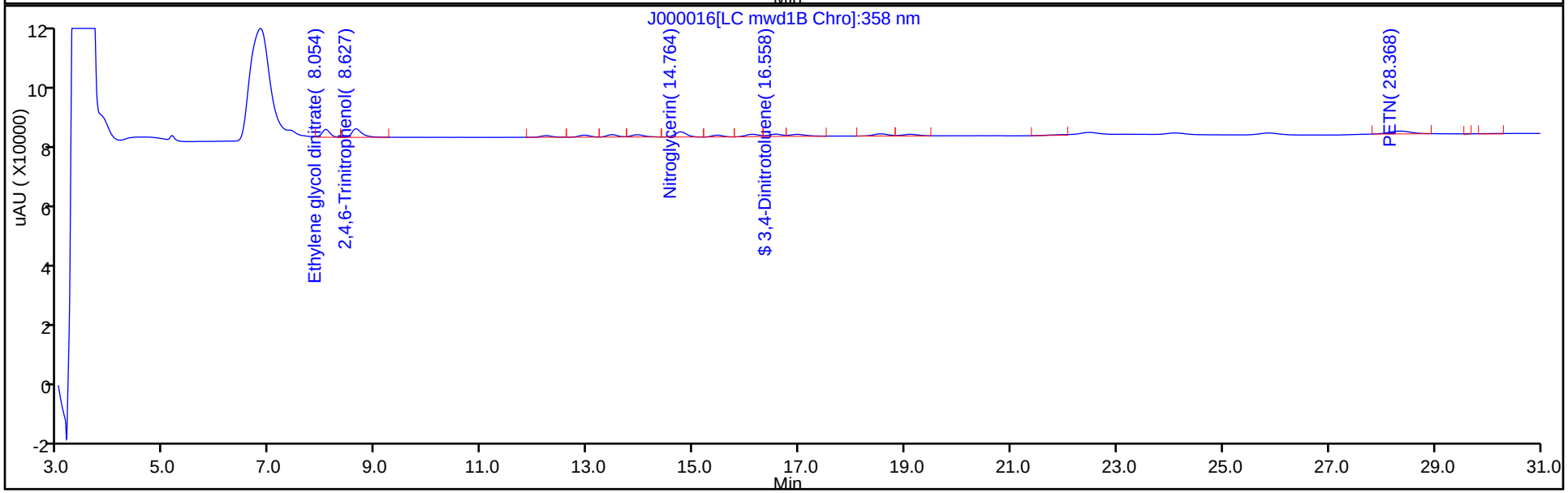
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D

Injection Date:	11-Mar-2015 22:20:25	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	LODV			Worklist Smp#:	13
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

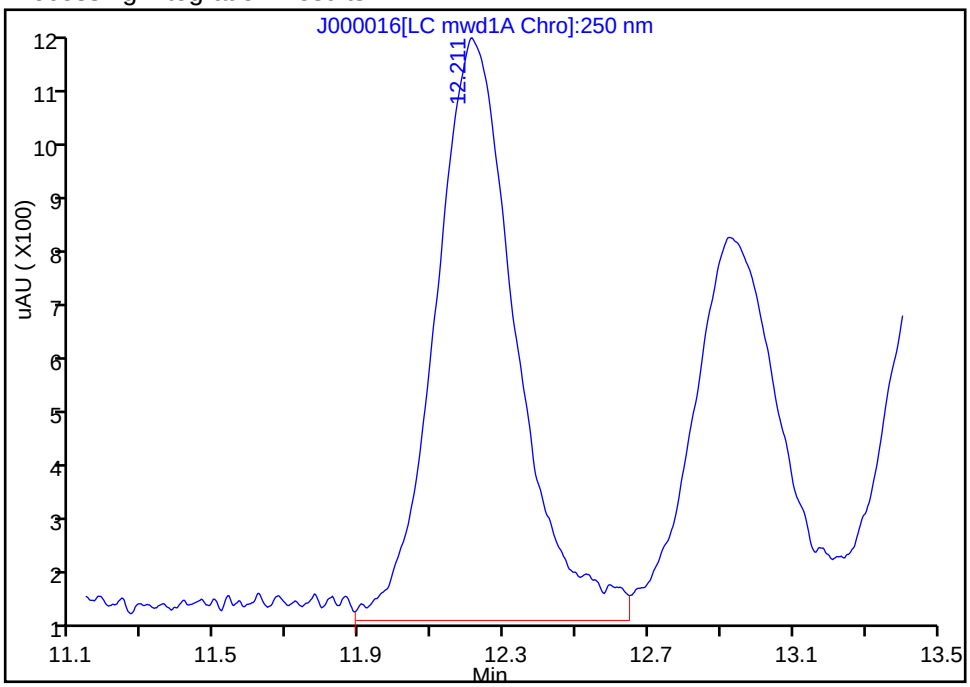
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

24 1,3-Dinitrobenzene, CAS: 99-65-0

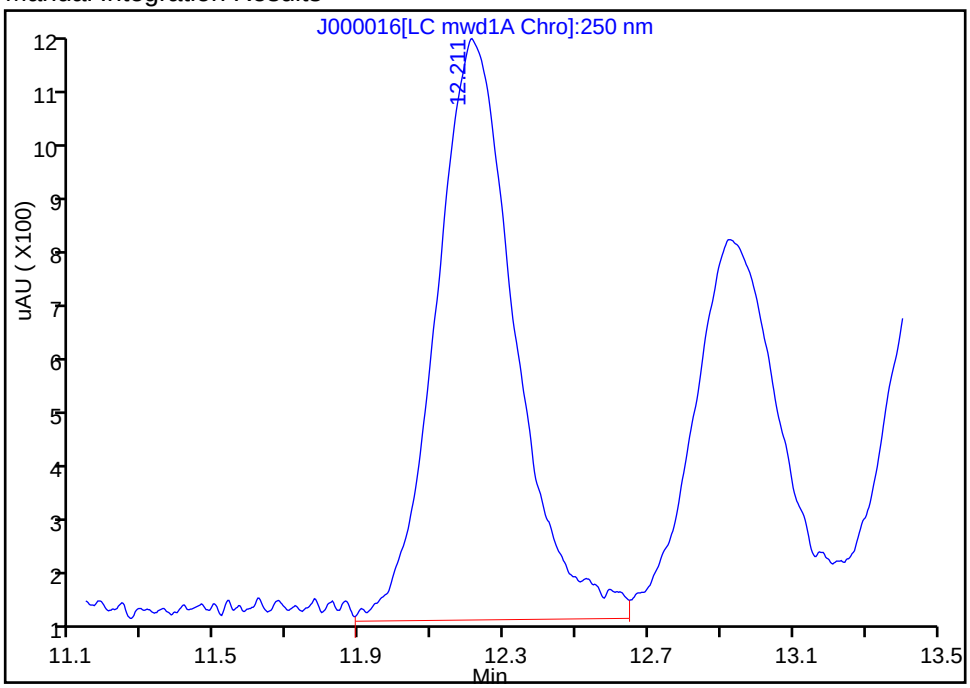
Processing Integration Results

RT: 12.21
Height: 1015
Amount: 5.432954
Amount Units: ng/ml



Manual Integration Results

RT: 12.21
Height: 1006
Amount: 5.384780
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

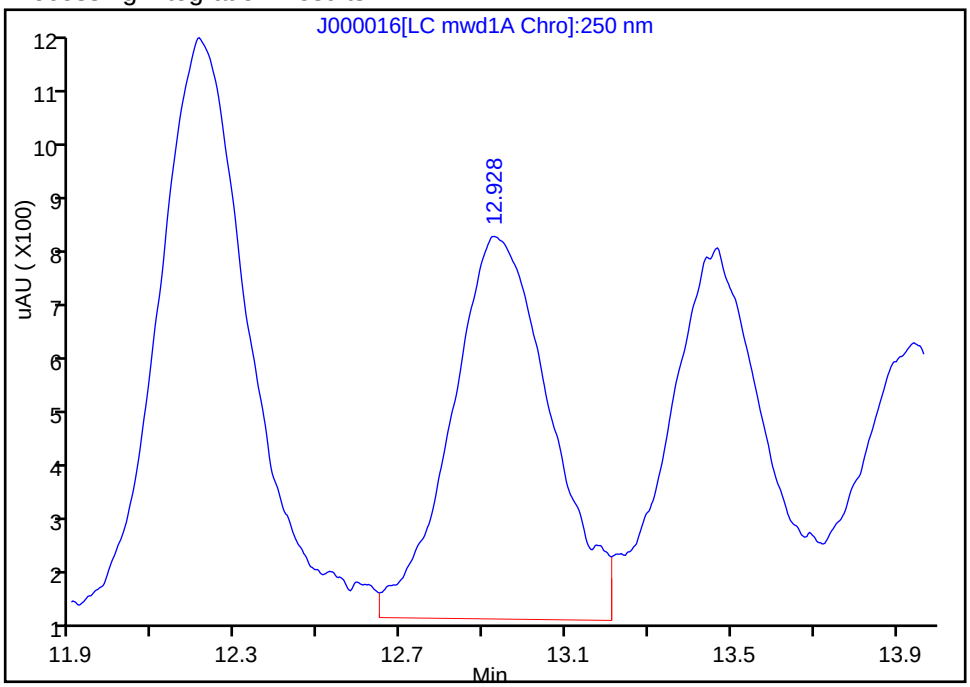
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

9 3,5-Dinitroaniline, CAS: 618-87-1

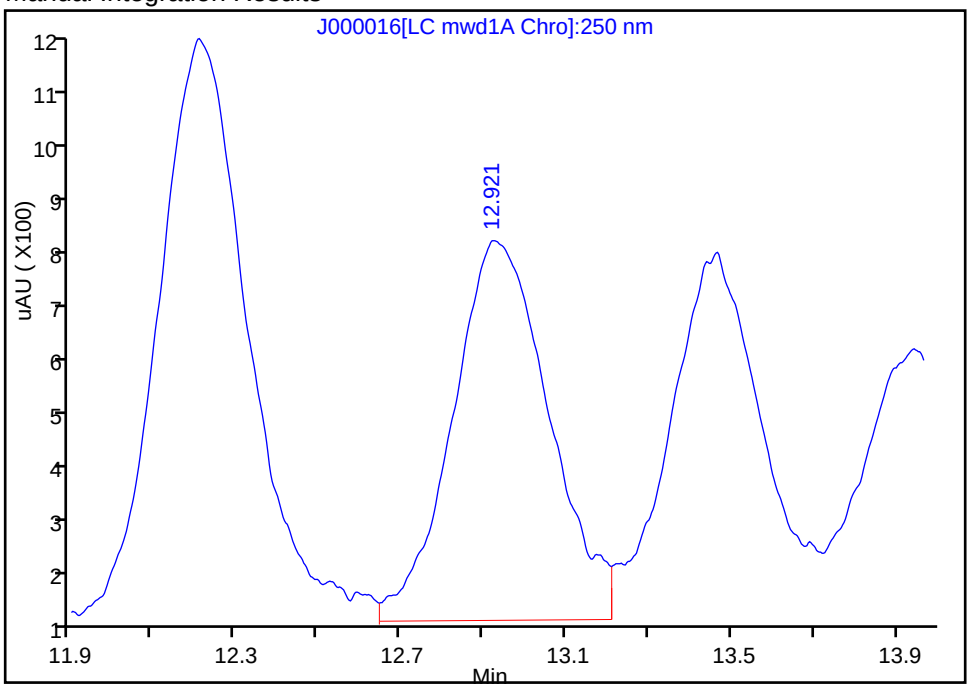
Processing Integration Results

RT: 12.93
Height: 670
Amount: 5.446832
Amount Units: ng/ml



Manual Integration Results

RT: 12.92
Height: 654
Amount: 5.316758
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

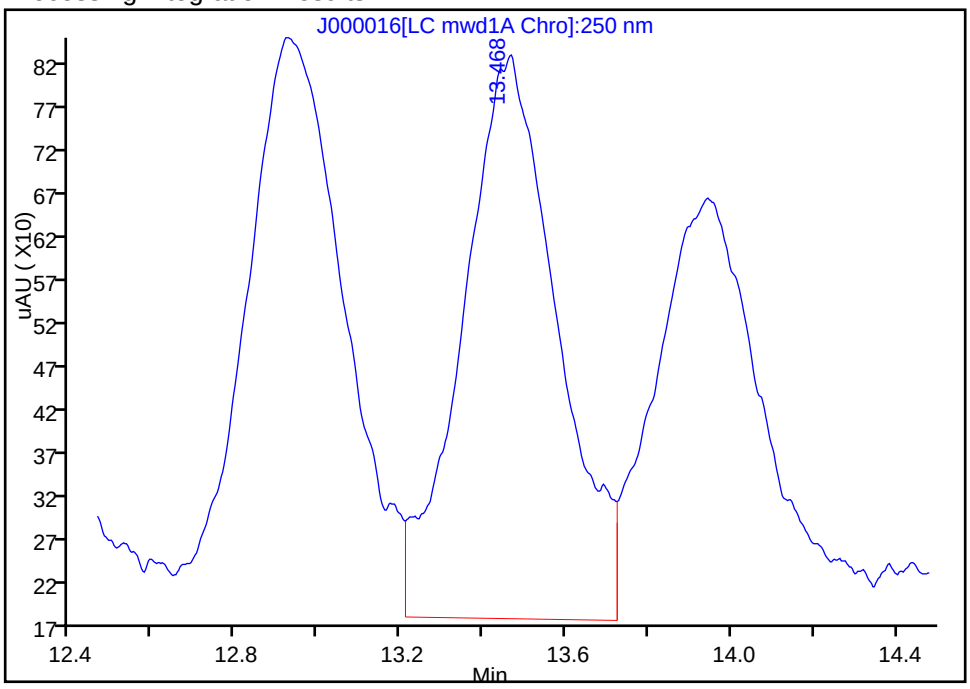
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D				
Injection Date:	11-Mar-2015 22:20:25	Instrument ID:	LC10		
Lims ID:	LODV				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	12	Worklist Smp#:	13
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

20 Tetryl, CAS: 479-45-8

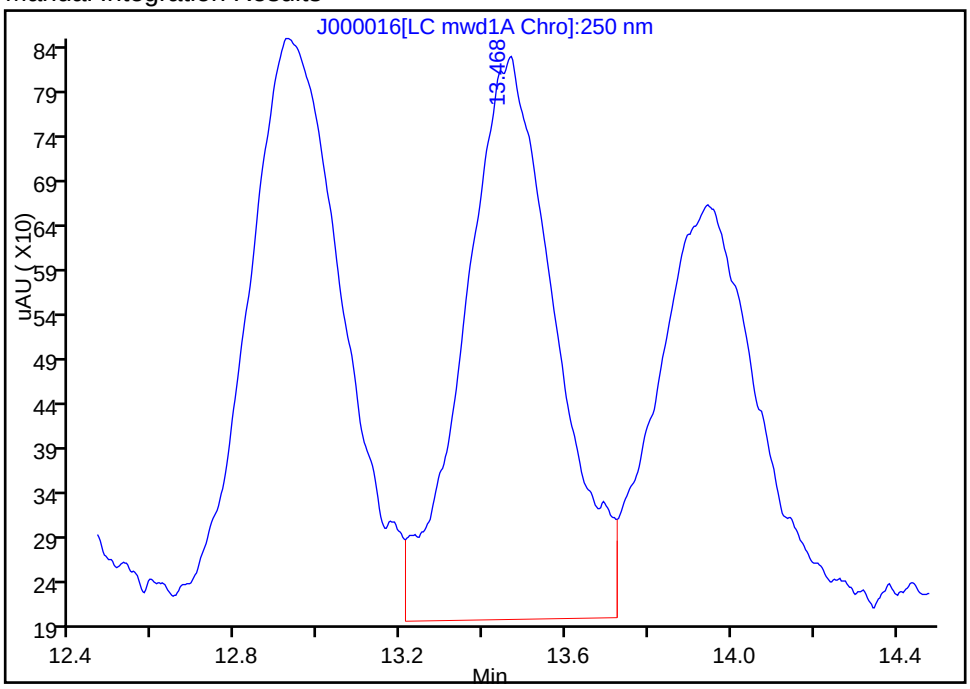
Processing Integration Results

RT: 13.47
Height: 654
Amount: 5.891930
Amount Units: ng/ml



Manual Integration Results

RT: 13.47
Height: 630
Amount: 5.675712
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

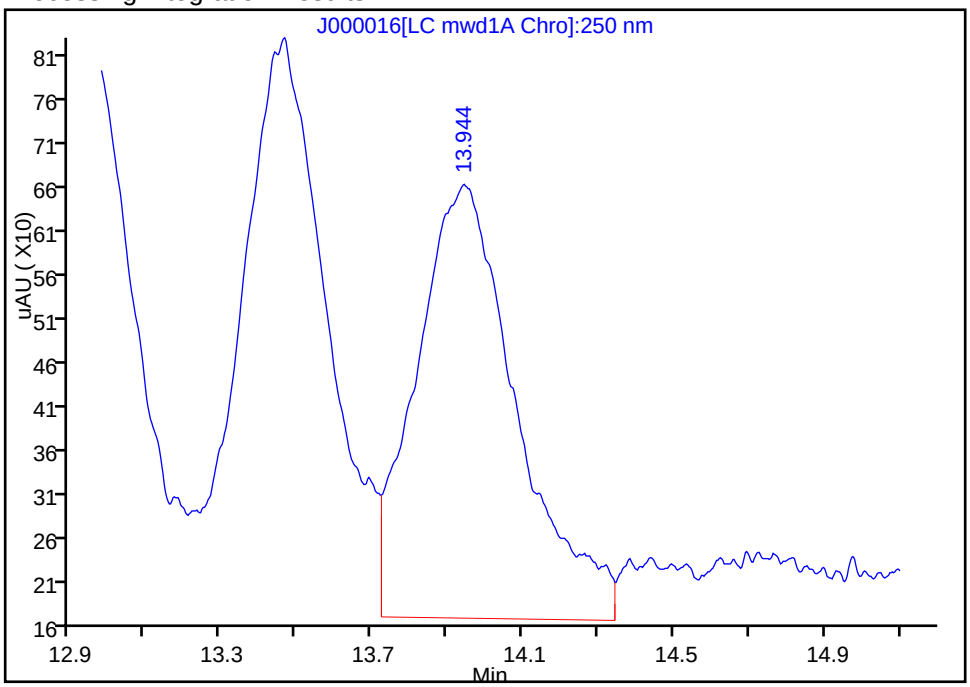
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

5 Nitrobenzene, CAS: 98-95-3

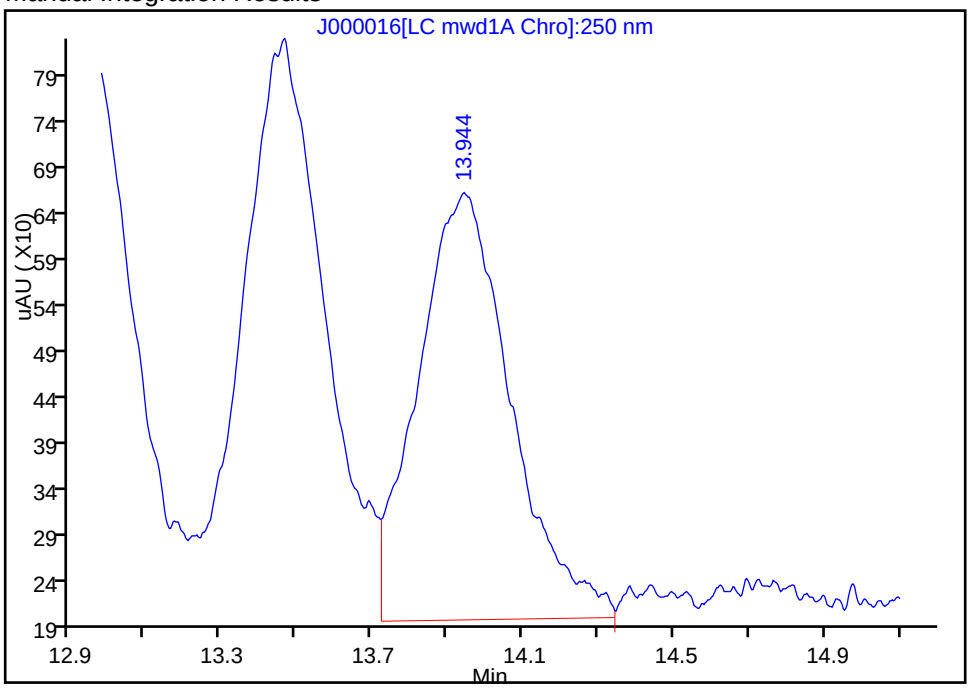
Processing Integration Results

RT: 13.94
Height: 492
Amount: 5.824307
Amount Units: ng/ml



Manual Integration Results

RT: 13.94
Height: 461
Amount: 5.457328
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

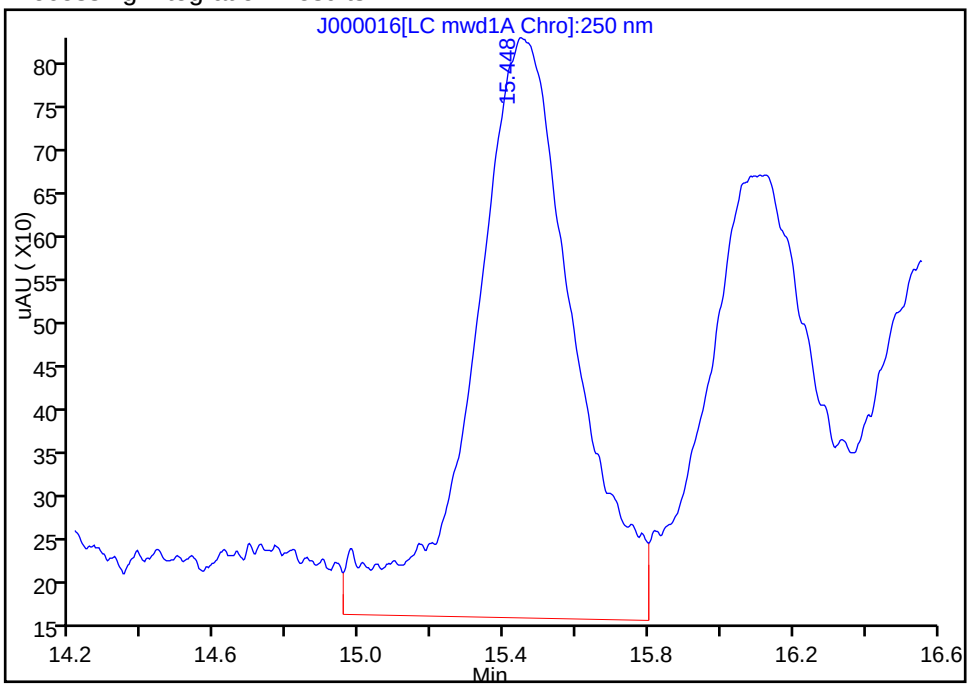
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

25 2,4,6-Trinitrotoluene, CAS: 118-96-7

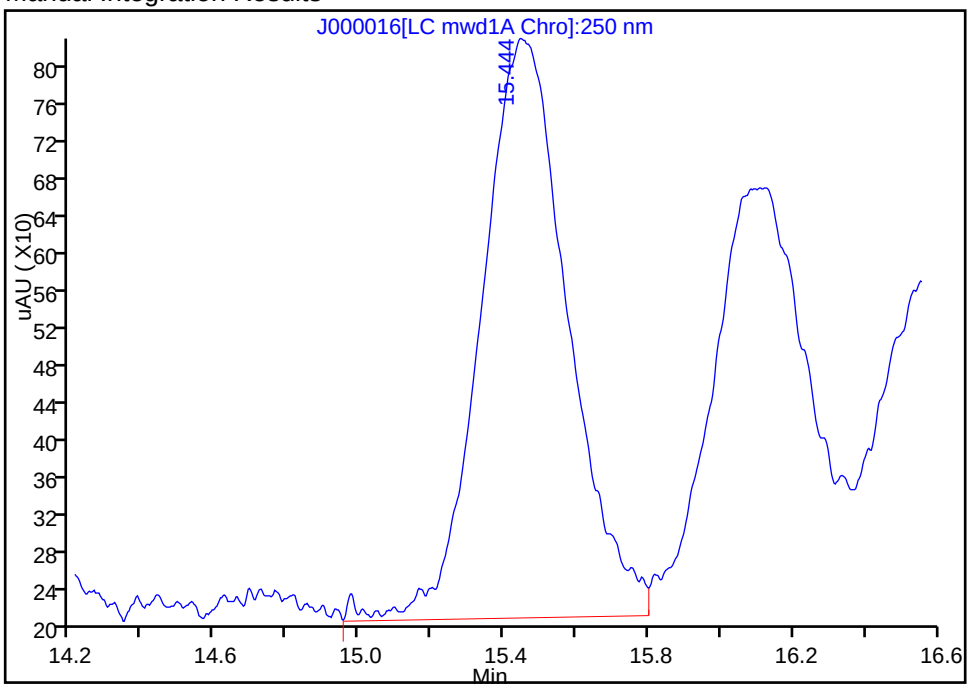
Processing Integration Results

RT: 15.45
Height: 672
Amount: 5.912720
Amount Units: ng/ml



Manual Integration Results

RT: 15.44
Height: 617
Amount: 5.428792
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

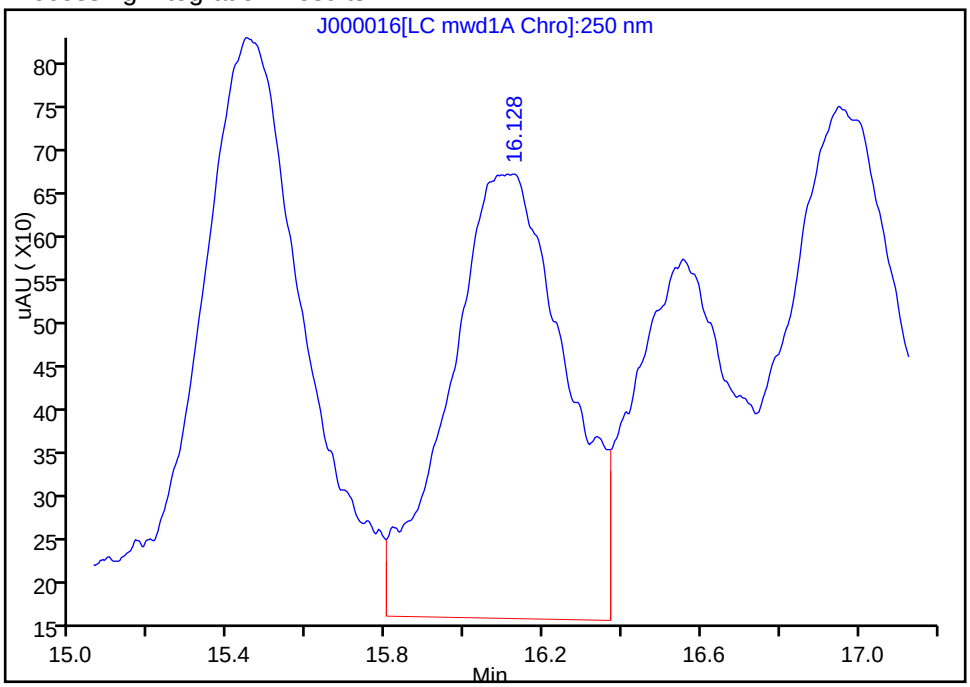
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

26 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

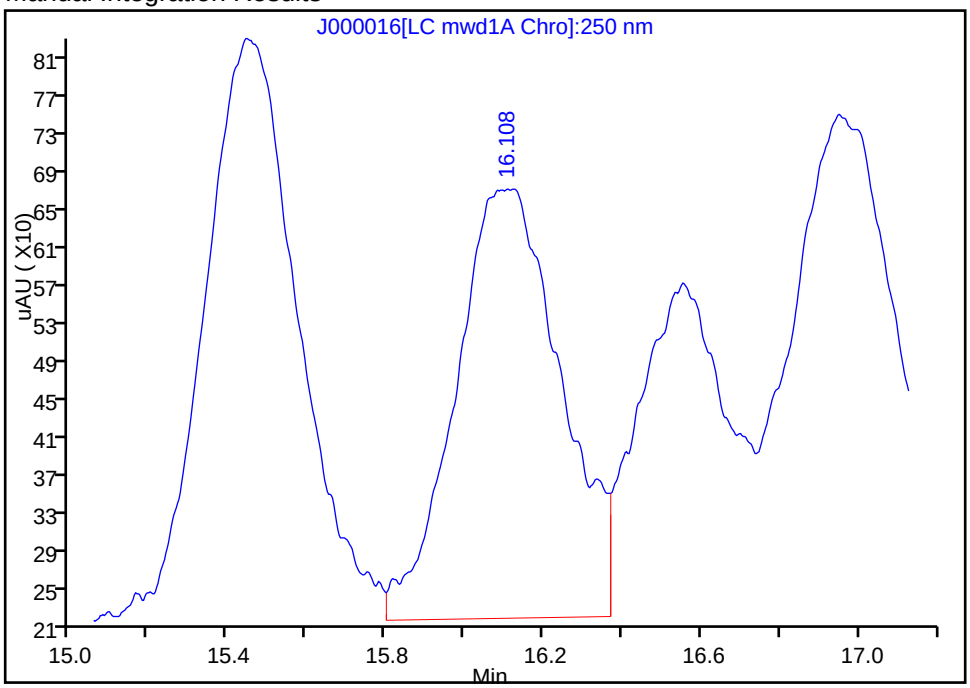
Processing Integration Results

RT: 16.13
Height: 518
Amount: 5.660301
Amount Units: ng/ml



Manual Integration Results

RT: 16.11
Height: 453
Amount: 4.950031
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

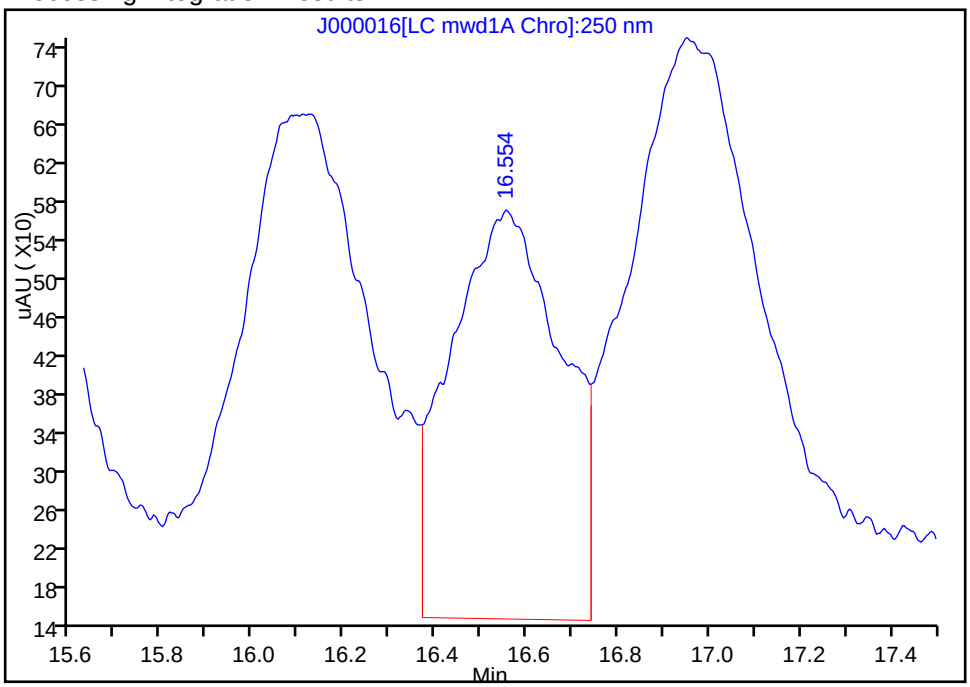
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

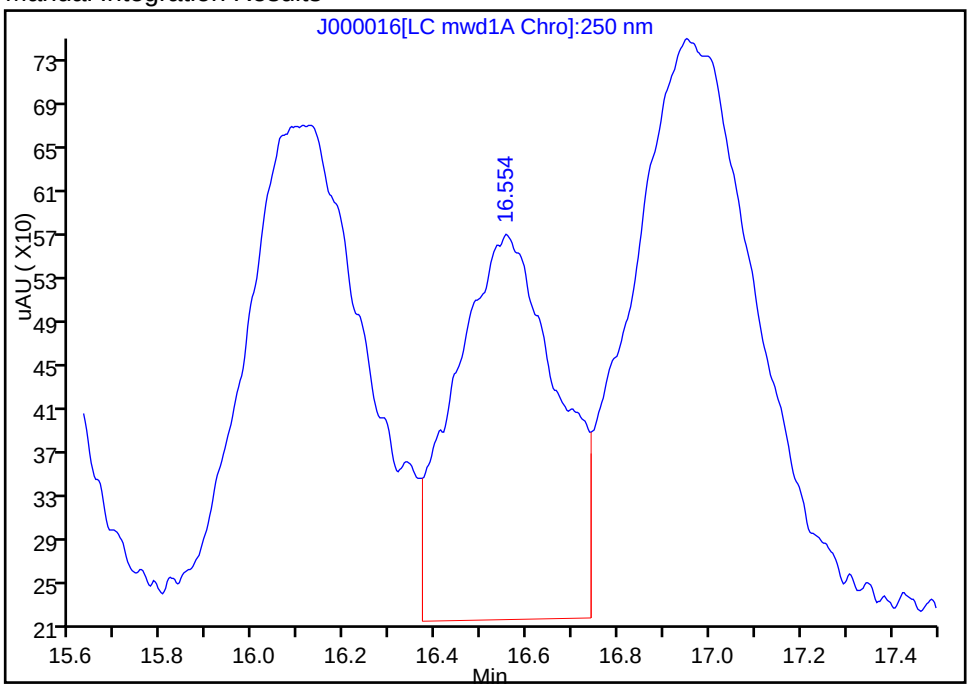
Processing Integration Results

RT: 16.55
Height: 423
Amount: 6.310123
Amount Units: ng/ml



Manual Integration Results

RT: 16.55
Height: 351
Amount: 5.236060
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

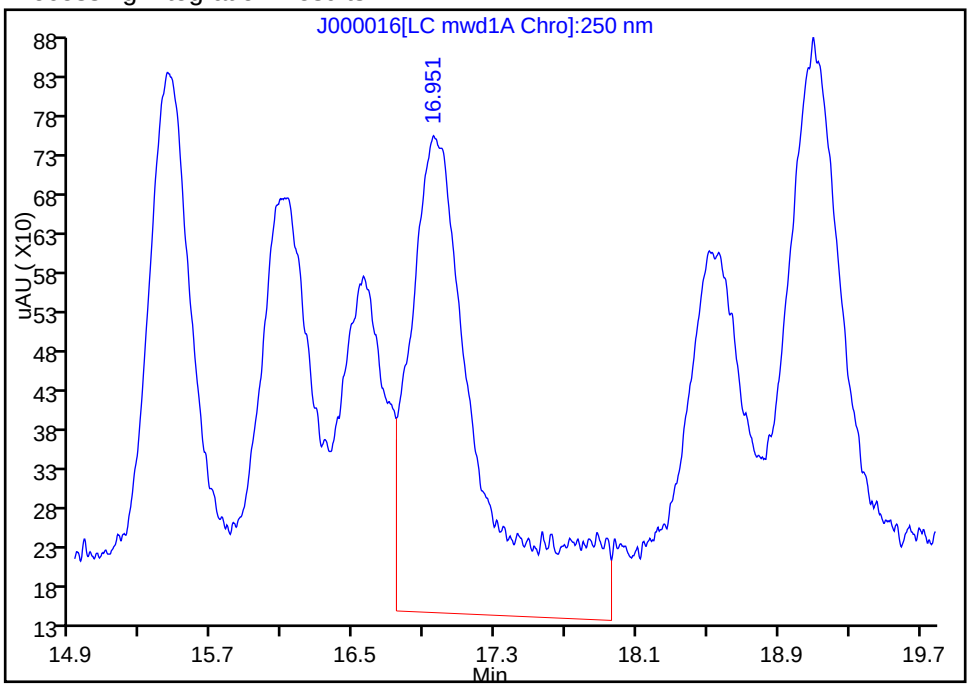
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

6 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

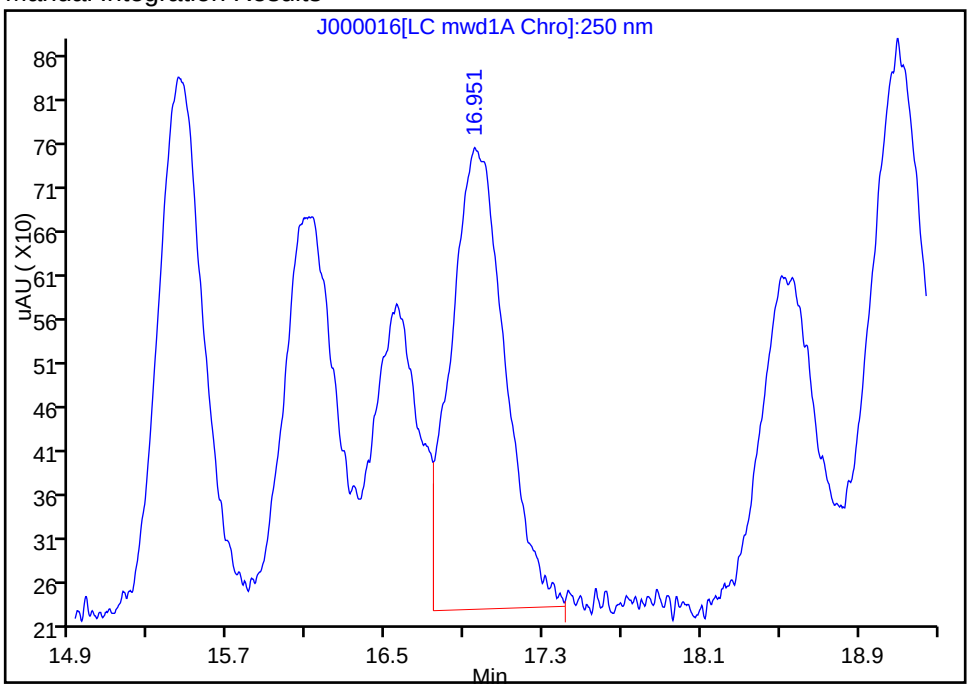
Processing Integration Results

RT: 16.95
Height: 605
Amount: 5.923483
Amount Units: ng/ml



Manual Integration Results

RT: 16.95
Height: 526
Amount: 5.150003
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

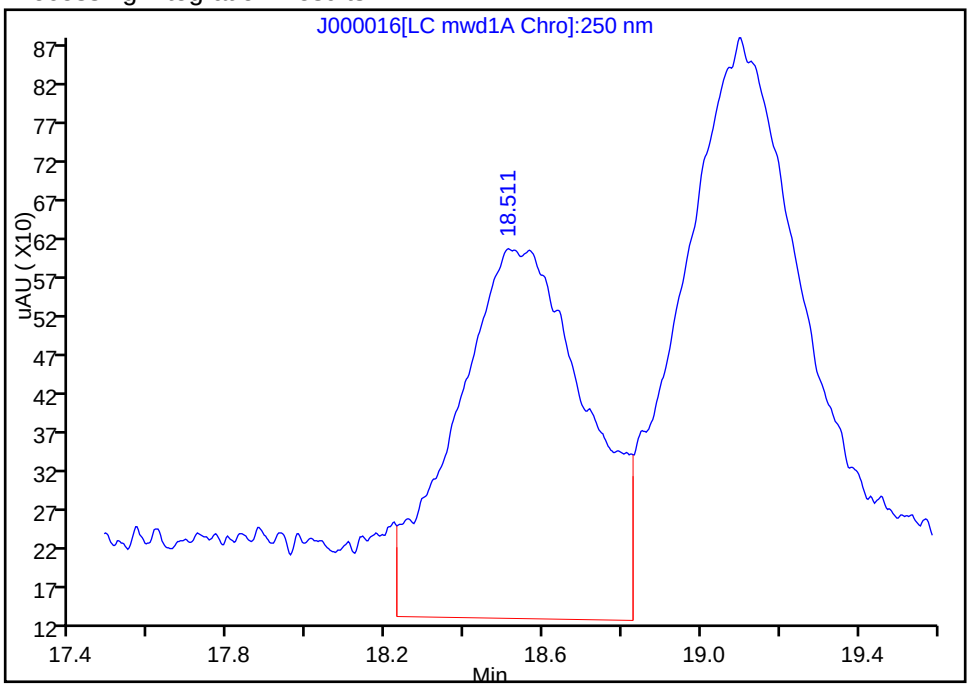
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

12 2,6-Dinitrotoluene, CAS: 606-20-2

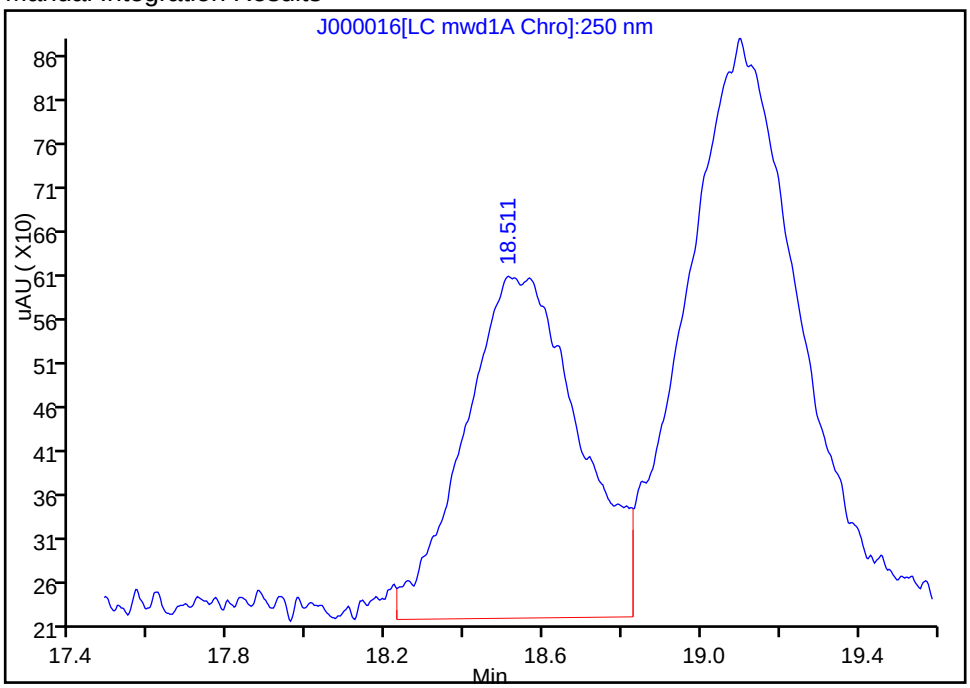
Processing Integration Results

RT: 18.51
Height: 474
Amount: 6.583438
Amount Units: ng/ml



Manual Integration Results

RT: 18.51
Height: 389
Amount: 5.407155
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

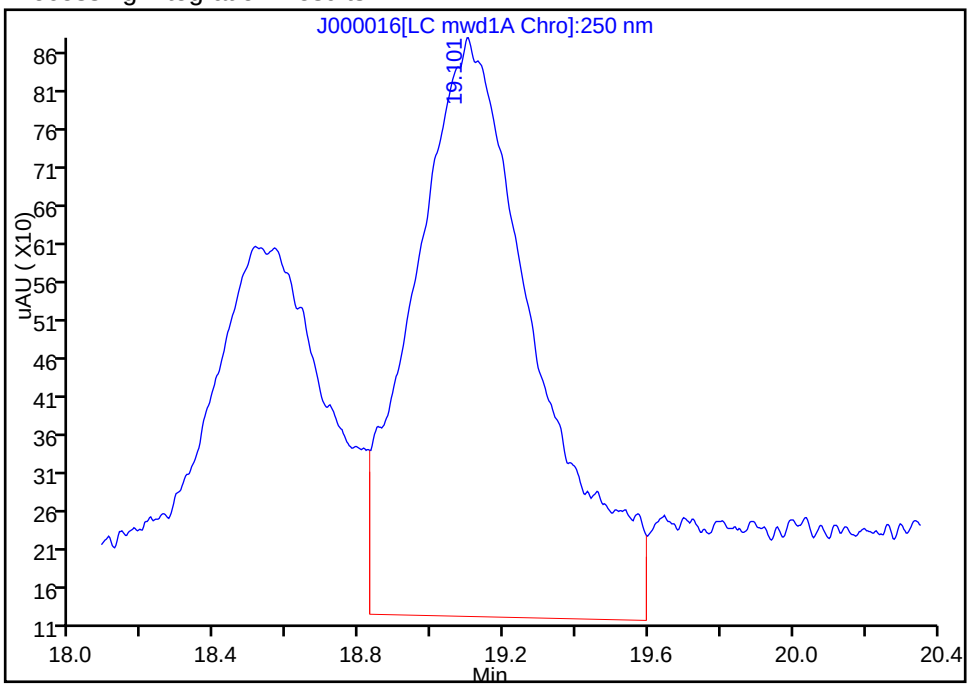
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

23 2,4-Dinitrotoluene, CAS: 121-14-2

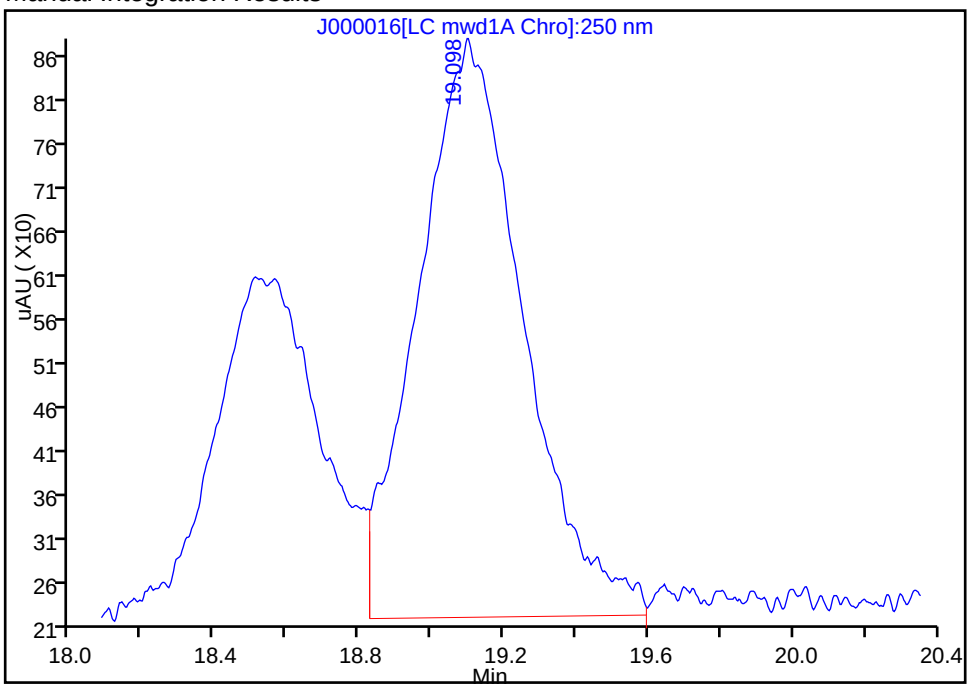
Processing Integration Results

RT: 19.10
Height: 749
Amount: 6.329167
Amount Units: ng/ml



Manual Integration Results

RT: 19.10
Height: 656
Amount: 5.545981
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

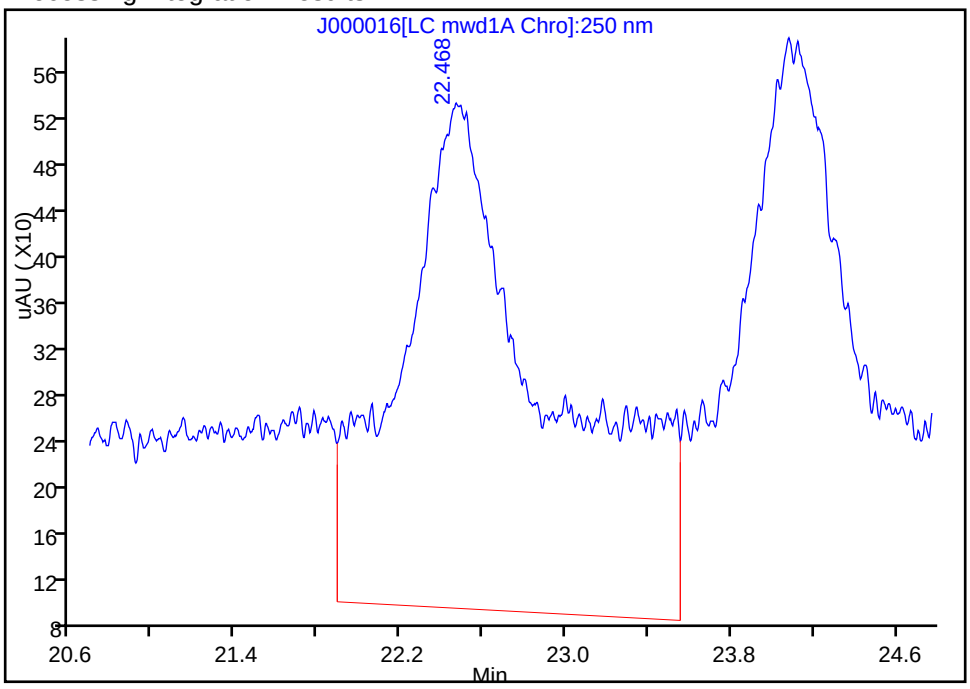
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

16 o-Nitrotoluene, CAS: 88-72-2

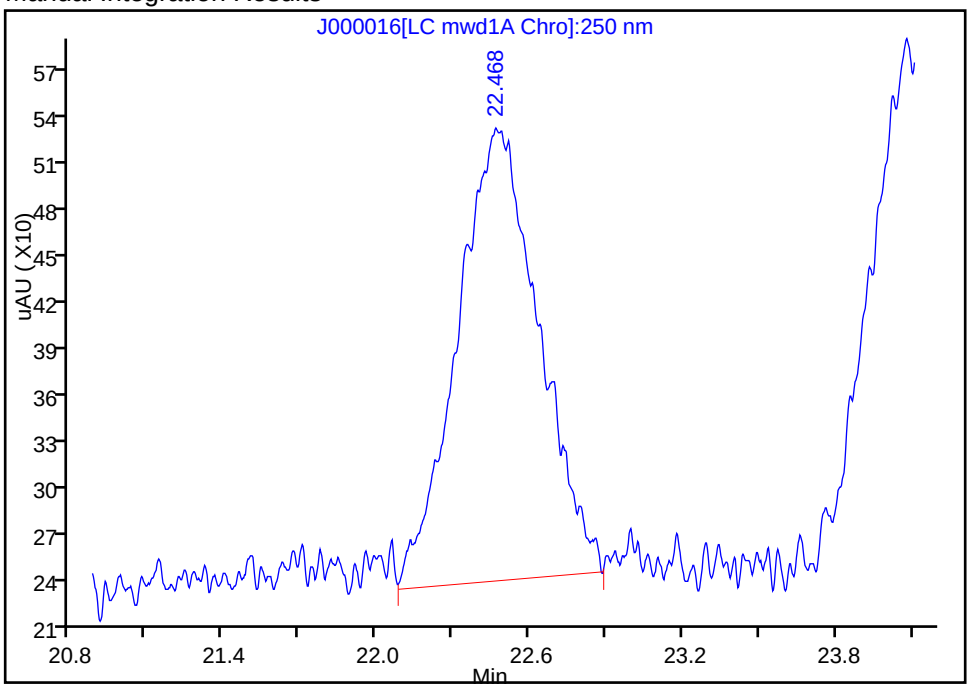
Processing Integration Results

RT: 22.47
Height: 434
Amount: 8.272384
Amount Units: ng/ml



Manual Integration Results

RT: 22.47
Height: 284
Amount: 5.419168
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

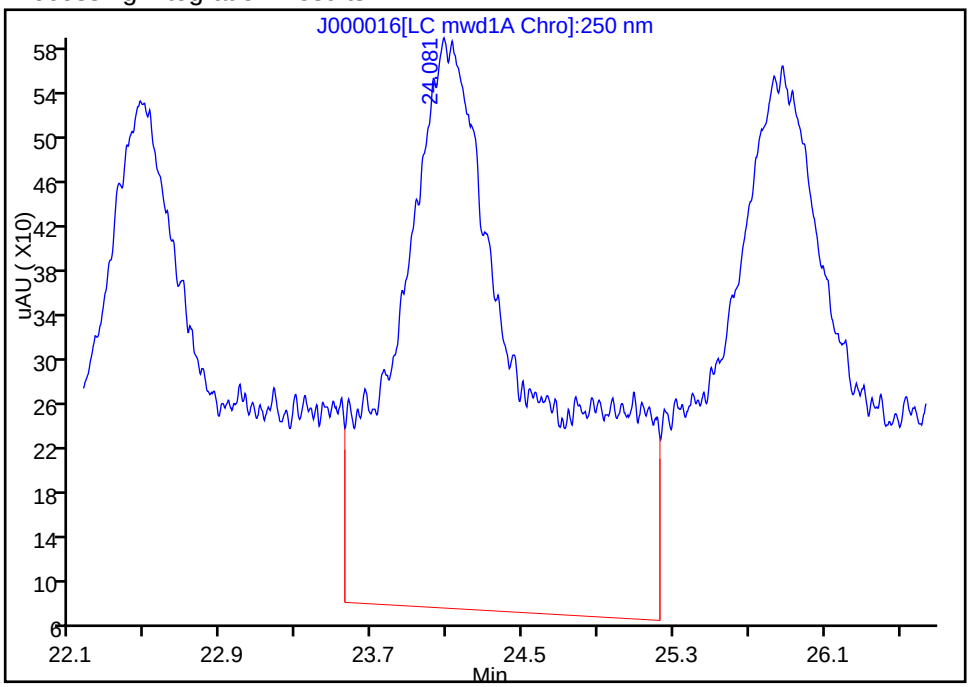
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

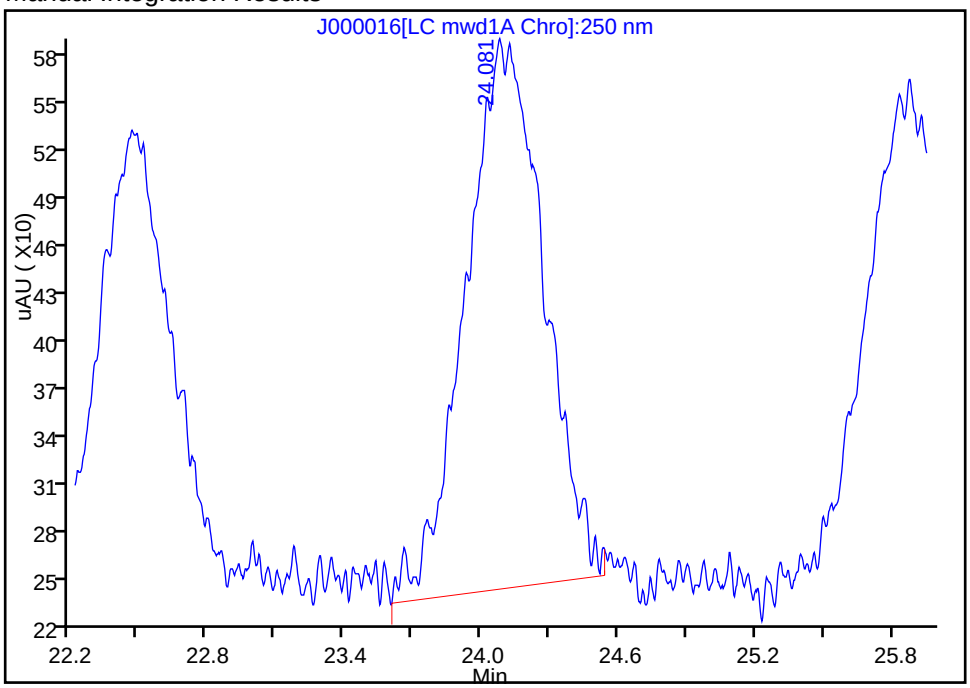
Processing Integration Results

RT: 24.08
Height: 506
Amount: 7.460973
Amount Units: ng/ml



Manual Integration Results

RT: 24.08
Height: 337
Amount: 5.352836
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

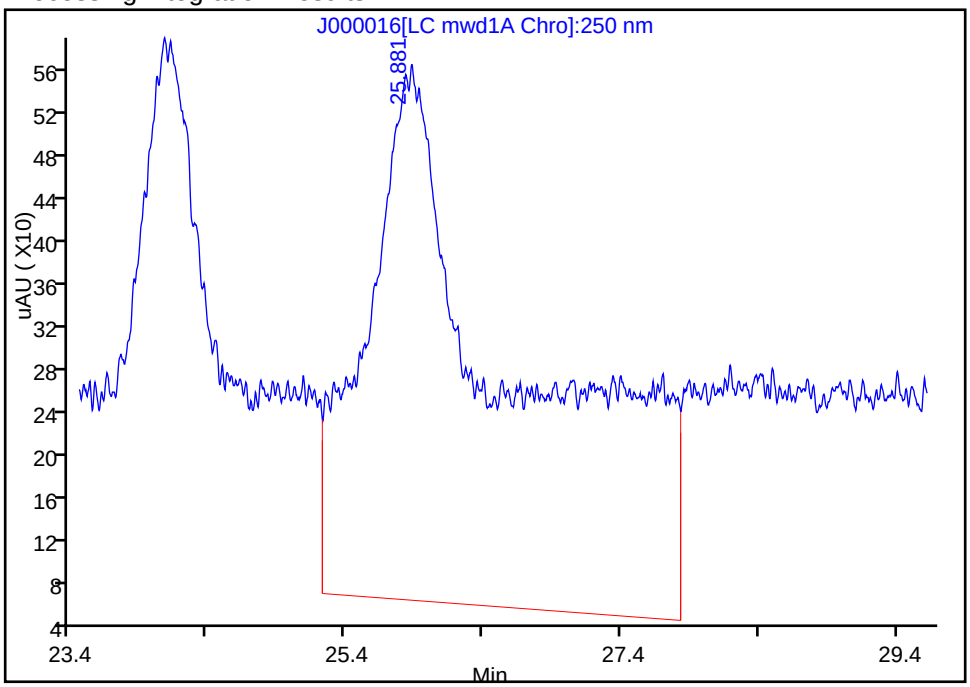
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

Processing Integration Results

RT: 25.88
Height: 498
Amount: 8.418399
Amount Units: ng/ml



Manual Integration Results

RT: 25.88
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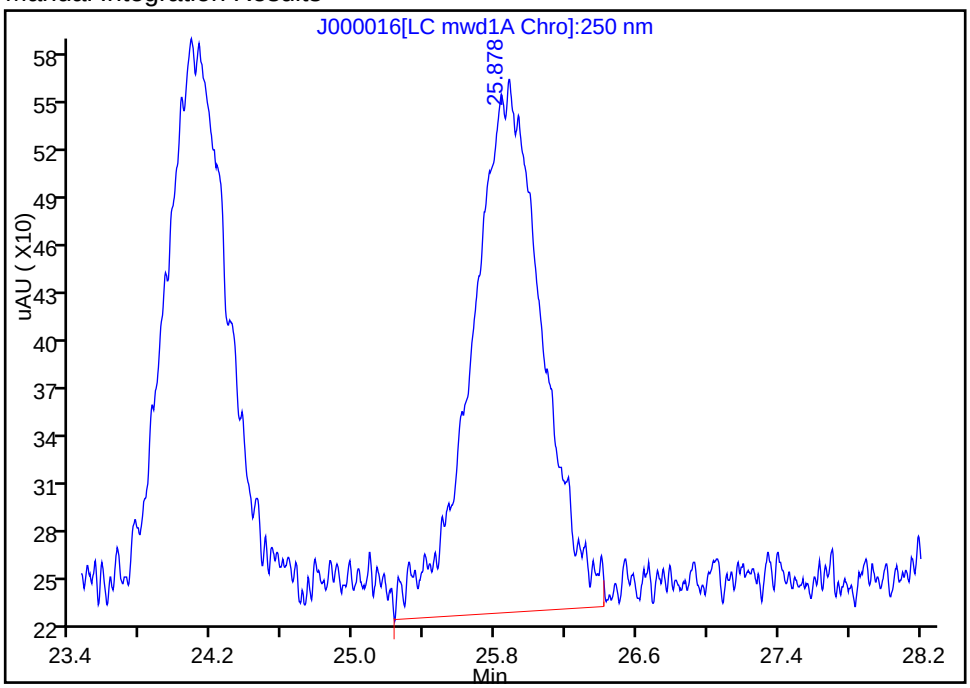
Amount: 5.505521
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

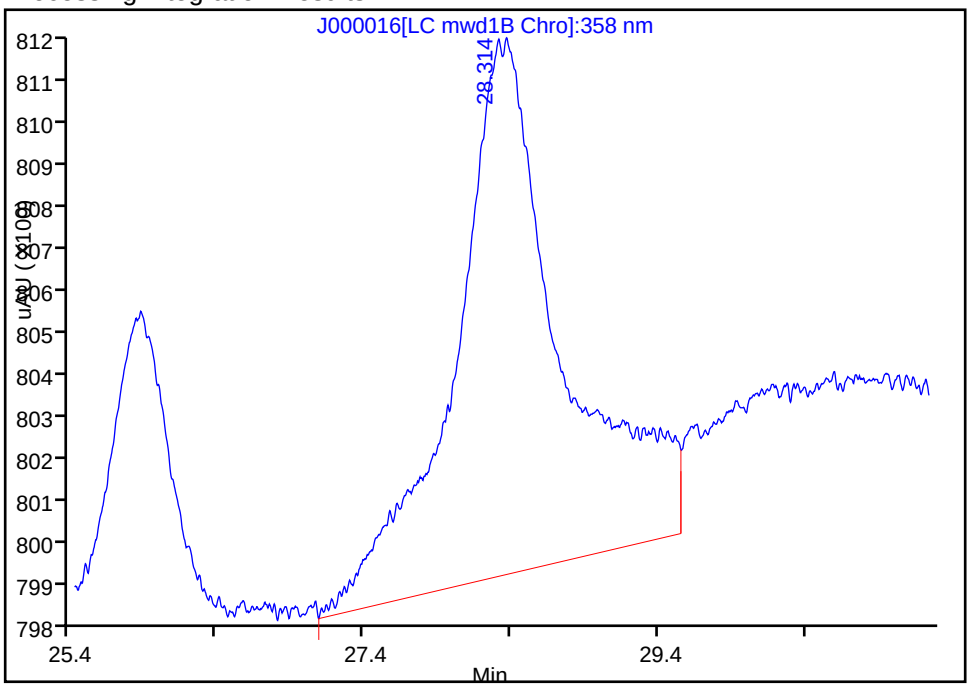
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

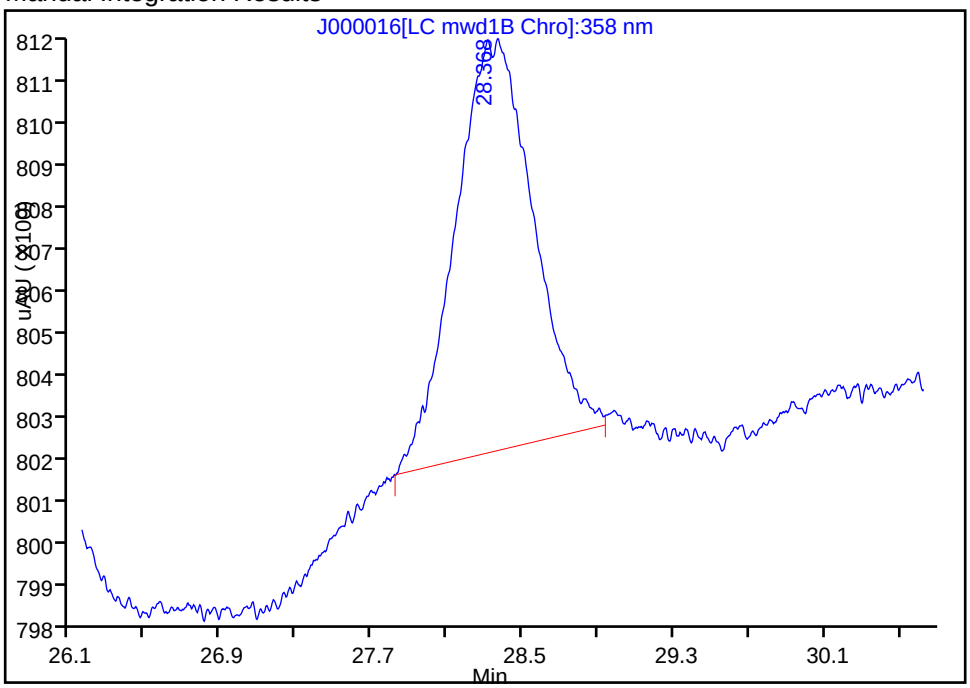
Processing Integration Results

RT: 28.31
Height: 1175
Amount: 26.091301
Amount Units: ng/ml



Manual Integration Results

RT: 28.37
Height: 901
Amount: 20.274071
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71173/3 Calibration Date: 04/15/2015 12:10

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000003.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	140.8		4.79	5.00	-4.3	30.0
RDX	Ave	101.4	109.0		5.38	5.00	7.5	30.0
Ethylene glycol dinitrate	Ave	120.7	119.5		19.8	20.0	-1.0	30.0
Picric acid	Ave	130.7	122.4		18.7	20.0	-6.3	30.0
1,3,5-Trinitrobenzene	Ave	194.5	195.8		5.03	5.00	0.7	30.0
1,3-Dinitrobenzene	Ave	186.8	186.6		4.99	5.00	-0.1	30.0
3,5-Dinitroaniline	Ave	123.0	125.8		5.11	5.00	2.3	30.0
Tetryl	Ave	111.0	117.4		5.29	5.00	5.8	30.0
Nitrobenzene	Ave	84.47	85.00		5.03	5.00	0.6	30.0
Nitroglycerin	Ave	76.63	74.35		19.4	20.0	-3.0	30.0
2,4,6-Trinitrotoluene	Ave	113.7	115.8		5.09	5.00	1.9	30.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	95.80		5.23	5.00	4.7	30.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	108.2		5.30	5.00	5.9	30.0
2,6-Dinitrotoluene	Ave	71.94	72.00		5.00	5.00	0.0	30.0
2,4-Dinitrotoluene	Ave	118.3	119.2		5.04	5.00	0.8	30.0
2-Nitrotoluene	Ave	52.41	53.00		5.06	5.00	1.1	30.0
4-Nitrotoluene	Ave	62.96	64.60		5.13	5.00	2.6	30.0
3-Nitrotoluene	Ave	59.21	60.40		5.10	5.00	2.0	30.0
PETN	Ave	44.44	46.10		20.7	20.0	3.7	30.0
3,4-Dinitrotoluene	Ave	67.04	71.80		5.36	5.00	7.1	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71173/3 Calibration Date: 04/15/2015 12:10

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.15	4.90	5.40
RDX	7.40	7.15	7.65
Ethylene glycol dinitrate	8.03	7.78	8.28
Picric acid	8.58	8.33	8.83
1,3,5-Trinitrobenzene	9.59	9.34	9.84
1,3-Dinitrobenzene	12.18	11.93	12.43
3,5-Dinitroaniline	12.89	12.64	13.14
Tetryl	13.39	13.14	13.64
Nitrobenzene	13.86	13.61	14.11
Nitroglycerin	14.69	14.44	14.94
2,4,6-Trinitrotoluene	15.37	15.12	15.62
4-Amino-2,6-dinitrotoluene	16.02	15.77	16.27
2-Amino-4,6-dinitrotoluene	16.87	16.62	17.12
2,6-Dinitrotoluene	18.42	18.17	18.67
2,4-Dinitrotoluene	18.98	18.73	19.23
2-Nitrotoluene	22.30	22.05	22.55
4-Nitrotoluene	23.98	23.73	24.23
3-Nitrotoluene	25.68	25.43	25.93
PETN	28.14	27.89	28.39
3,4-Dinitrotoluene	16.45	16.20	16.70

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000003.D
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 15-Apr-2015 12:10:36 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021039-003
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150415-21039.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 15-Apr-2015 13:39:48 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK050

First Level Reviewer: huangyun Date: 15-Apr-2015 13:39:48

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.147	5.147	0.000	704H	5.00	4.79	
19 RDX							
1	7.403	7.403	0.000	545H	5.00	5.38	
3 Ethylene glycol dinitrate							
2	8.033	8.033	0.000	2389H	20.0	19.8	
10 2,4,6-Trinitrophenol							
2	8.580	8.580	0.000	2448H	20.0	18.7	
1	8.580	8.580	0.000	1716H	20.0	18.7	
27 1,3,5-Trinitrobenzene							
1	9.593	9.593	0.000	979H	5.00	5.03	
24 1,3-Dinitrobenzene							
1	12.177	12.177	0.000	933H	5.00	4.99	
9 3,5-Dinitroaniline							
1	12.894	12.894	0.000	629H	5.00	5.11	
20 Tetryl							
1	13.390	13.390	0.000	587H	5.00	5.29	
5 Nitrobenzene							
1	13.864	13.864	0.000	425H	5.00	5.03	
7 Nitroglycerin							
2	14.687	14.687	0.000	1487H	20.0	19.4	
25 2,4,6-Trinitrotoluene							
1	15.370	15.370	0.000	579H	5.00	5.09	
26 4-Amino-2,6-dinitrotoluene							
1	16.017	16.017	0.000	479H	5.00	5.23	
$ 30 3,4-Dinitrotoluene							
1	16.454	16.454	0.000	359H	5.00	5.36	
2	16.454	16.454	0.000	822H	5.00	6.12	
6 2-Amino-4,6-dinitrotoluene							
1	16.874	16.874	0.000	541H	5.00	5.30	
12 2,6-Dinitrotoluene							
1	18.420	18.420	0.000	360H	5.00	5.00	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	18.980	18.980	0.000	596H	5.00	5.04	
16 o-Nitrotoluene							
1	22.300	22.300	0.000	265H	5.00	5.06	
15 p-Nitrotoluene							
1	23.984	23.984	0.000	323H	5.00	5.13	
8 m-Nitrotoluene							
1	25.677	25.677	0.000	302H	5.00	5.10	
21 PETN							
2	28.140	28.140	0.000	922H	20.0	20.7	

Reagents:

HP8330ICL_00023 Amount Added: 1.00 Units: mL

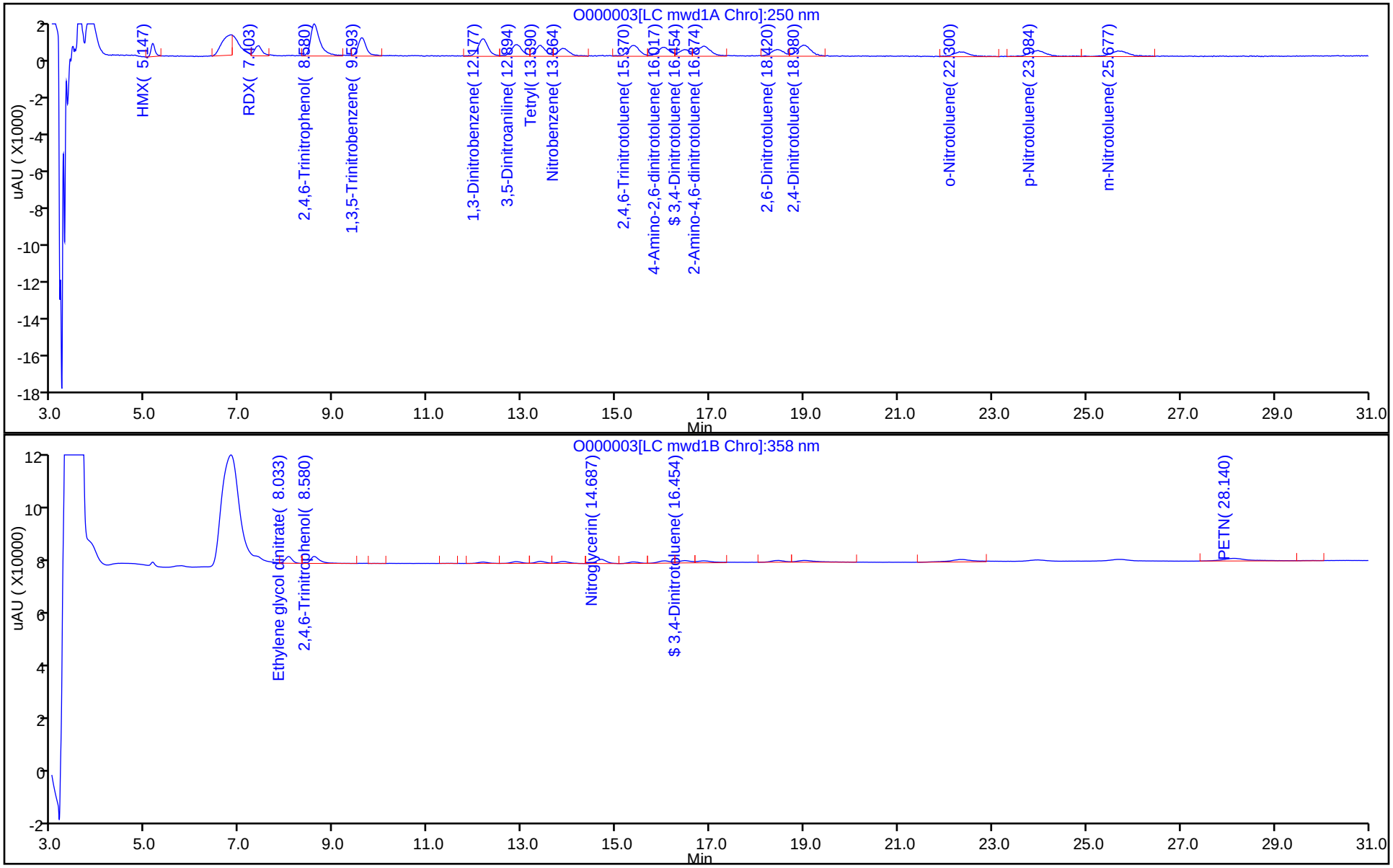
Report Date: 15-Apr-2015 13:39:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000003.D

Injection Date:	15-Apr-2015 12:10:36	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	3
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71173/4 Calibration Date: 04/15/2015 12:54

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000004.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	135.4		92.0	100	-8.0	20.0
RDX	Ave	101.4	91.10		89.9	100	-10.1	20.0
Ethylene glycol dinitrate	Ave	120.7	114.4		94.8	100	-5.2	20.0
Picric acid	Ave	130.7	134.6		206	200	3.0	20.0
1,3,5-Trinitrobenzene	Ave	194.5	178.3		91.7	100	-8.3	20.0
1,3-Dinitrobenzene	Ave	186.8	170.5		91.3	100	-8.7	20.0
3,5-Dinitroaniline	Ave	123.0	113.1		91.9	100	-8.1	20.0
Tetryl	Ave	111.0	101.8		91.7	100	-8.3	20.0
Nitrobenzene	Ave	84.47	76.66		90.8	100	-9.2	20.0
Nitroglycerin	Ave	76.63	73.06		95.3	100	-4.7	20.0
2,4,6-Trinitrotoluene	Ave	113.7	103.8		91.3	100	-8.7	20.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	83.78		91.5	100	-8.5	20.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	93.40		91.4	100	-8.6	20.0
2,6-Dinitrotoluene	Ave	71.94	65.93		91.6	100	-8.4	20.0
2,4-Dinitrotoluene	Ave	118.3	108.9		92.0	100	-8.0	20.0
2-Nitrotoluene	Ave	52.41	47.86		91.3	100	-8.7	20.0
4-Nitrotoluene	Ave	62.96	58.07		92.2	100	-7.8	20.0
3-Nitrotoluene	Ave	59.21	54.28		91.7	100	-8.3	20.0
PETN	Ave	44.44	44.66		100	100	0.5	20.0
3,4-Dinitrotoluene	Ave	67.04	61.14		91.2	100	-8.8	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71173/4 Calibration Date: 04/15/2015 12:54

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000004.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.14	4.89	5.39
RDX	7.38	7.13	7.63
Ethylene glycol dinitrate	8.03	7.78	8.28
Picric acid	8.53	8.28	8.78
1,3,5-Trinitrobenzene	9.59	9.34	9.84
1,3-Dinitrobenzene	12.16	11.91	12.41
3,5-Dinitroaniline	12.87	12.62	13.12
Tetryl	13.39	13.14	13.64
Nitrobenzene	13.88	13.63	14.13
Nitroglycerin	14.68	14.43	14.93
2,4,6-Trinitrotoluene	15.38	15.13	15.63
4-Amino-2,6-dinitrotoluene	16.02	15.77	16.27
2-Amino-4,6-dinitrotoluene	16.88	16.63	17.13
2,6-Dinitrotoluene	18.45	18.20	18.70
2,4-Dinitrotoluene	19.01	18.76	19.26
2-Nitrotoluene	22.35	22.10	22.60
4-Nitrotoluene	23.97	23.72	24.22
3-Nitrotoluene	25.71	25.46	25.96
PETN	28.13	27.88	28.38
3,4-Dinitrotoluene	16.47	16.22	16.72

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000004.D
Lims ID: CCV 05
Client ID:
Sample Type: CCVRT
Inject. Date: 15-Apr-2015 12:54:07 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021039-004
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150415-21039.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 15-Apr-2015 15:15:22 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK050

First Level Reviewer: huangyun Date: 15-Apr-2015 15:15:22

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.144	5.144	0.000	13535H	100.0	92.0	
19 RDX							
1	7.384	7.384	0.000	9110H	100.0	89.9	
3 Ethylene glycol dinitrate							
2	8.031	8.031	0.000	11442H	100.0	94.8	
10 2,4,6-Trinitrophenol							
2	8.531	8.531	0.000	26917H	200.0	206.0	
1	8.531	8.531	0.000	18574H	200.0	202.2	
27 1,3,5-Trinitrobenzene							
1	9.591	9.591	0.000	17827H	100.0	91.7	
24 1,3-Dinitrobenzene							
1	12.164	12.164	0.000	17053H	100.0	91.3	
9 3,5-Dinitroaniline							
1	12.874	12.874	0.000	11306H	100.0	91.9	
20 Tetryl							
1	13.388	13.388	0.000	10180H	100.0	91.7	
5 Nitrobenzene							
1	13.878	13.878	0.000	7666H	100.0	90.8	
7 Nitroglycerin							
2	14.684	14.684	0.000	7306H	100.0	95.3	
25 2,4,6-Trinitrotoluene							
1	15.381	15.381	0.000	10377H	100.0	91.3	
26 4-Amino-2,6-dinitrotoluene							
1	16.021	16.021	0.000	8378H	100.0	91.5	
$ 30 3,4-Dinitrotoluene							M
1	16.474	16.474	0.000	6114H	100.0	91.2	
2	16.474	16.474	0.000	11634H	100.0	86.6	M
6 2-Amino-4,6-dinitrotoluene							
1	16.878	16.878	0.000	9340H	100.0	91.4	
12 2,6-Dinitrotoluene							
1	18.448	18.448	0.000	6593H	100.0	91.6	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.011	19.011	0.000	10886H	100.0	92.0	
16 o-Nitrotoluene							
1	22.351	22.351	0.000	4786H	100.0	91.3	
15 p-Nitrotoluene							
1	23.974	23.974	0.000	5807H	100.0	92.2	
8 m-Nitrotoluene							
1	25.714	25.714	0.000	5428H	100.0	91.7	
21 PETN							
2	28.134	28.134	0.000	4466H	100.0	100.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L5_00034 Amount Added: 1.00 Units: mL

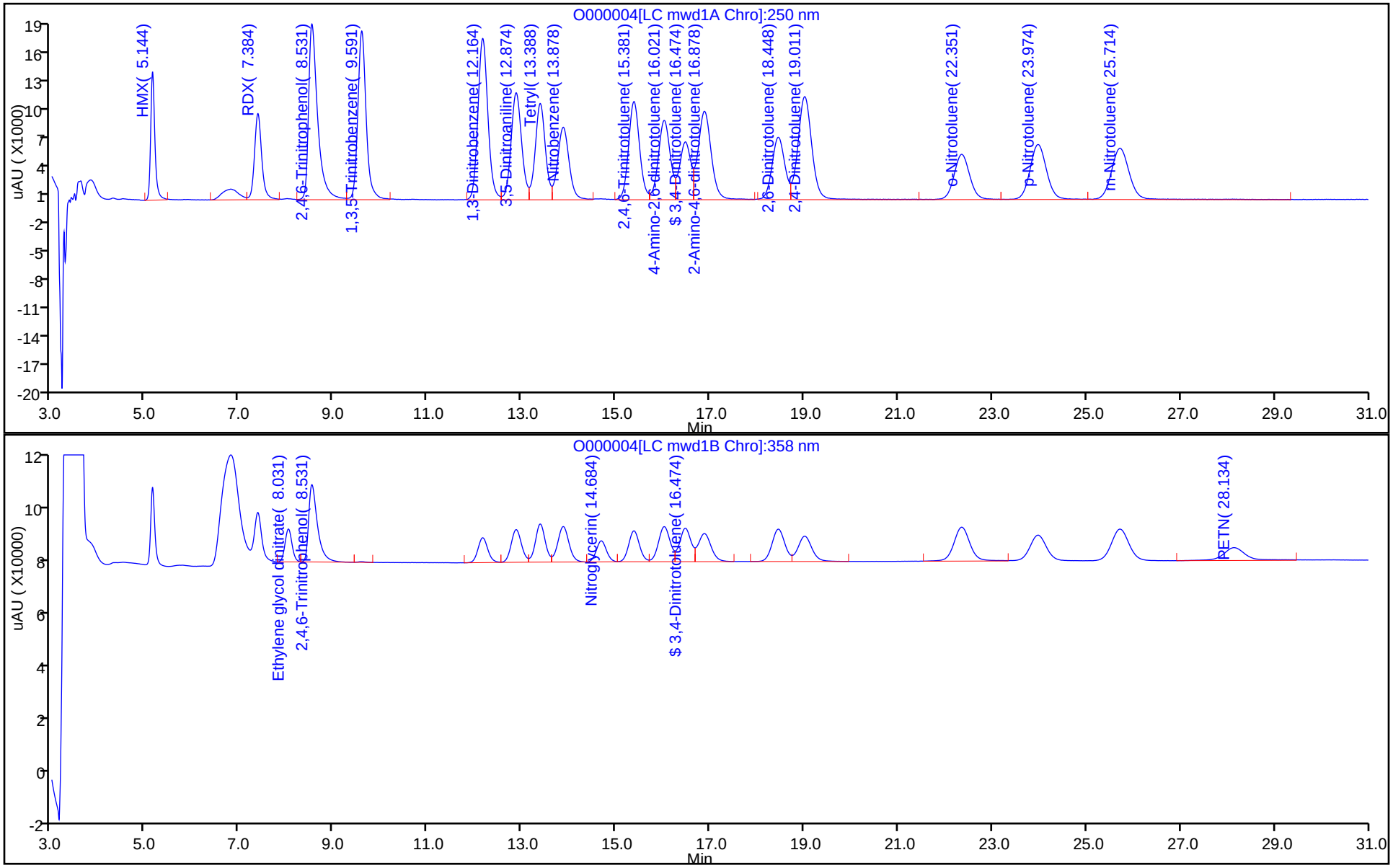
Report Date: 15-Apr-2015 15:15:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000004.D

Injection Date:	15-Apr-2015 12:54:07	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCV 05			Worklist Smp#:	4
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

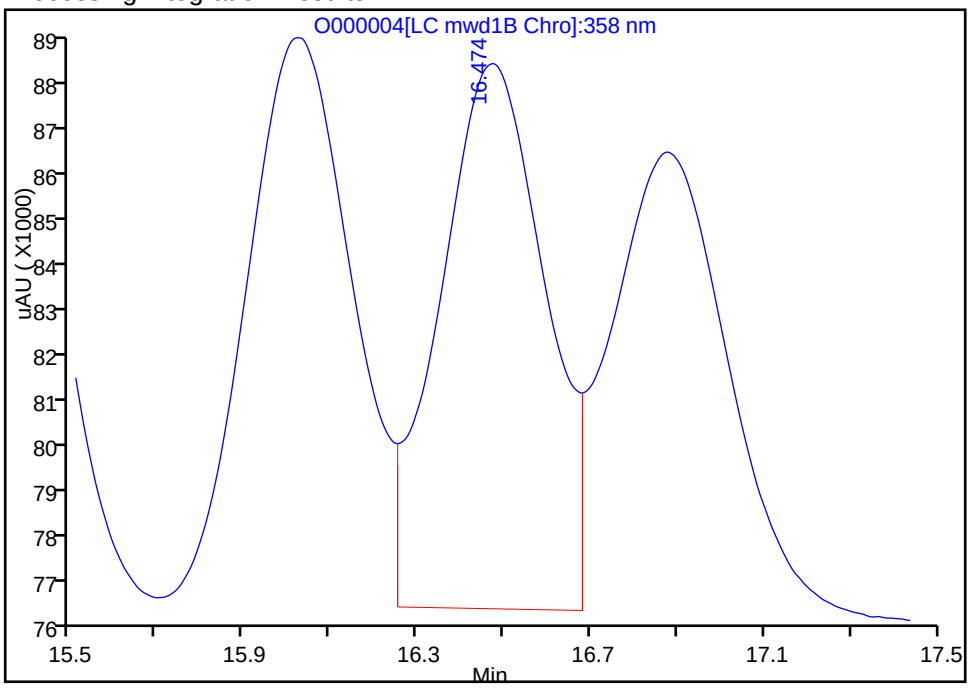
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000004.D
Injection Date: 15-Apr-2015 12:54:07 Instrument ID: LC10
Lims ID: CCV 05
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

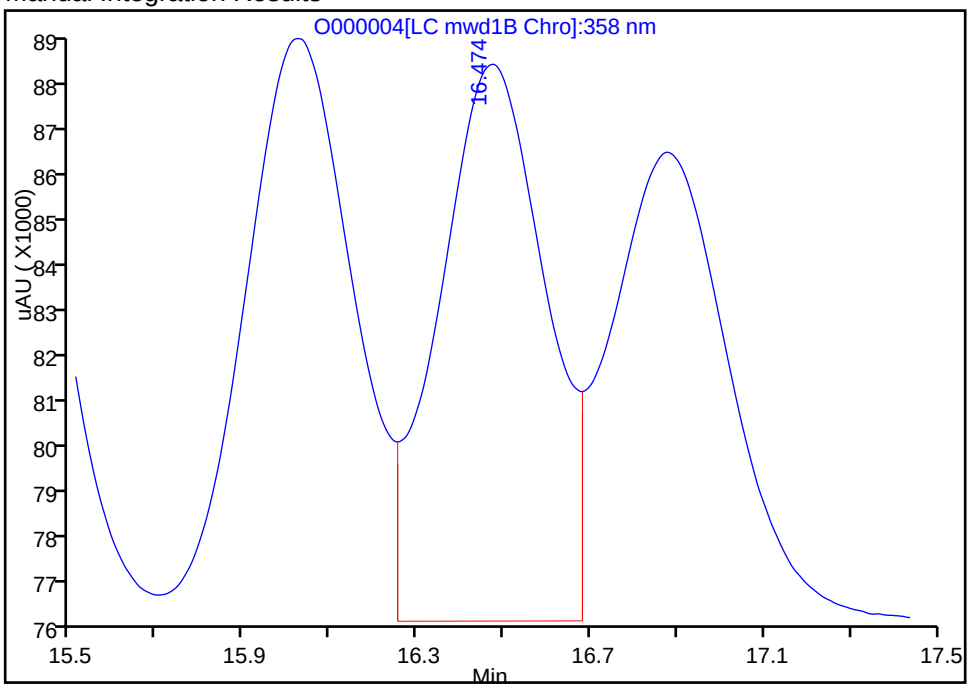
Processing Integration Results

RT: 16.47
Height: 11320
Amount: 84.307559
Amount Units: ng/ml



Manual Integration Results

RT: 16.47
Height: 11634
Amount: 86.646125
Amount Units: ng/ml



Reviewer: huangyun, 15-Apr-2015 15:15:22
Audit Action: Assigned New Baseline
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71173/15 Calibration Date: 04/15/2015 20:53

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000015.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	136.2		46.3	50.0	-7.4	20.0
RDX	Ave	101.4	95.48		47.1	50.0	-5.8	20.0
Ethylene glycol dinitrate	Ave	120.7	114.2		47.3	50.0	-5.4	20.0
Picric acid	Ave	130.7	138.6		106	100	6.0	20.0
1,3,5-Trinitrobenzene	Ave	194.5	179.2		46.1	50.0	-7.9	20.0
1,3-Dinitrobenzene	Ave	186.8	171.8		46.0	50.0	-8.1	20.0
3,5-Dinitroaniline	Ave	123.0	113.0		45.9	50.0	-8.2	20.0
Tetryl	Ave	111.0	102.0		45.9	50.0	-8.1	20.0
Nitrobenzene	Ave	84.47	77.56		45.9	50.0	-8.2	20.0
Nitroglycerin	Ave	76.63	75.16		49.0	50.0	-1.9	20.0
2,4,6-Trinitrotoluene	Ave	113.7	103.6		45.6	50.0	-8.8	20.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	83.44		45.6	50.0	-8.8	20.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	93.04		45.5	50.0	-8.9	20.0
2,6-Dinitrotoluene	Ave	71.94	66.10		45.9	50.0	-8.1	20.0
2,4-Dinitrotoluene	Ave	118.3	108.8		46.0	50.0	-8.0	20.0
2-Nitrotoluene	Ave	52.41	48.16		45.9	50.0	-8.1	20.0
4-Nitrotoluene	Ave	62.96	57.68		45.8	50.0	-8.4	20.0
3-Nitrotoluene	Ave	59.21	53.94		45.5	50.0	-8.9	20.0
PETN	Ave	44.44	46.40		52.2	50.0	4.4	20.0
3,4-Dinitrotoluene	Ave	67.04	62.40		46.5	50.0	-6.9	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71173/15 Calibration Date: 04/15/2015 20:53

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000015.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.15	4.90	5.40
RDX	7.39	7.14	7.64
Ethylene glycol dinitrate	8.03	7.78	8.28
Picric acid	8.50	8.25	8.75
1,3,5-Trinitrobenzene	9.59	9.34	9.84
1,3-Dinitrobenzene	12.16	11.91	12.41
3,5-Dinitroaniline	12.87	12.62	13.12
Tetryl	13.38	13.13	13.63
Nitrobenzene	13.88	13.63	14.13
Nitroglycerin	14.68	14.43	14.93
2,4,6-Trinitrotoluene	15.37	15.12	15.62
4-Amino-2,6-dinitrotoluene	16.01	15.76	16.26
2-Amino-4,6-dinitrotoluene	16.86	16.61	17.11
2,6-Dinitrotoluene	18.43	18.18	18.68
2,4-Dinitrotoluene	18.99	18.74	19.24
2-Nitrotoluene	22.33	22.08	22.58
4-Nitrotoluene	23.97	23.72	24.22
3-Nitrotoluene	25.71	25.46	25.96
PETN	28.17	27.92	28.42
3,4-Dinitrotoluene	16.45	16.20	16.70

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000015.D
Lims ID: CCV 04
Client ID:
Sample Type: CCVRT
Inject. Date: 15-Apr-2015 20:53:29 ALS Bottle#: 4 Worklist Smp#: 15
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021039-015
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150415-21039.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 16-Apr-2015 10:58:24 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK003

First Level Reviewer: huangyun Date: 16-Apr-2015 10:58:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.147	5.147	0.000	6809H	50.0	46.3	
19 RDX							
1	7.387	7.387	0.000	4774H	50.0	47.1	
3 Ethylene glycol dinitrate							
2	8.034	8.034	0.000	5709H	50.0	47.3	
10 2,4,6-Trinitrophenol							
2	8.504	8.504	0.000	13856H	100.0	106.0	
1	8.501	8.501	0.000	9663H	100.0	105.2	
27 1,3,5-Trinitrobenzene							
1	9.591	9.591	0.000	8959H	50.0	46.1	
24 1,3-Dinitrobenzene							
1	12.164	12.164	0.000	8588H	50.0	46.0	
9 3,5-Dinitroaniline							
1	12.874	12.874	0.000	5649H	50.0	45.9	
20 Tetryl							
1	13.384	13.384	0.000	5098H	50.0	45.9	
5 Nitrobenzene							
1	13.878	13.878	0.000	3878H	50.0	45.9	
7 Nitroglycerin							
2	14.678	14.678	0.000	3758H	50.0	49.0	
25 2,4,6-Trinitrotoluene							
1	15.368	15.368	0.000	5182H	50.0	45.6	
26 4-Amino-2,6-dinitrotoluene							
1	16.008	16.008	0.000	4172H	50.0	45.6	
$ 30 3,4-Dinitrotoluene							
1	16.454	16.454	0.000	3120H	50.0	46.5	
2	16.458	16.458	0.000	5861H	50.0	43.7	
6 2-Amino-4,6-dinitrotoluene							
1	16.858	16.858	0.000	4652H	50.0	45.5	
12 2,6-Dinitrotoluene							
1	18.434	18.434	0.000	3305H	50.0	45.9	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	18.991	18.991	0.000	5440H	50.0	46.0	
16 o-Nitrotoluene							
1	22.331	22.331	0.000	2408H	50.0	45.9	
15 p-Nitrotoluene							
1	23.968	23.968	0.000	2884H	50.0	45.8	
8 m-Nitrotoluene							
1	25.711	25.711	0.000	2697H	50.0	45.5	
21 PETN							
2	28.171	28.171	0.000	2320H	50.0	52.2	

Reagents:

HP8330L4_00025 Amount Added: 1.00 Units: mL

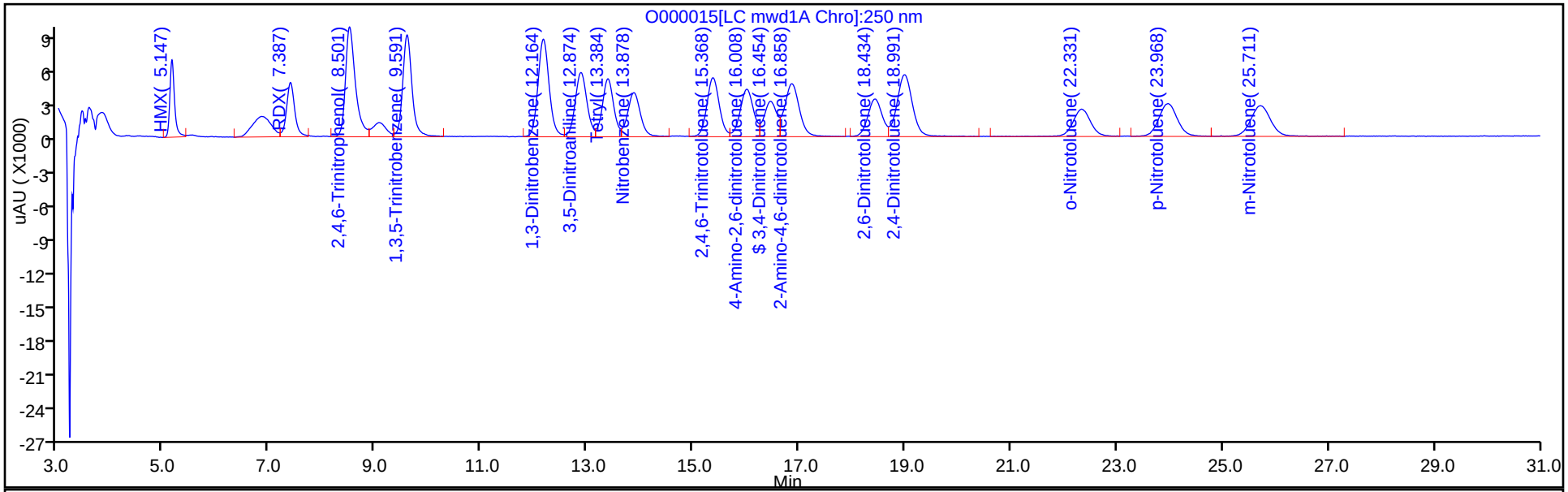
Report Date: 16-Apr-2015 10:58:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

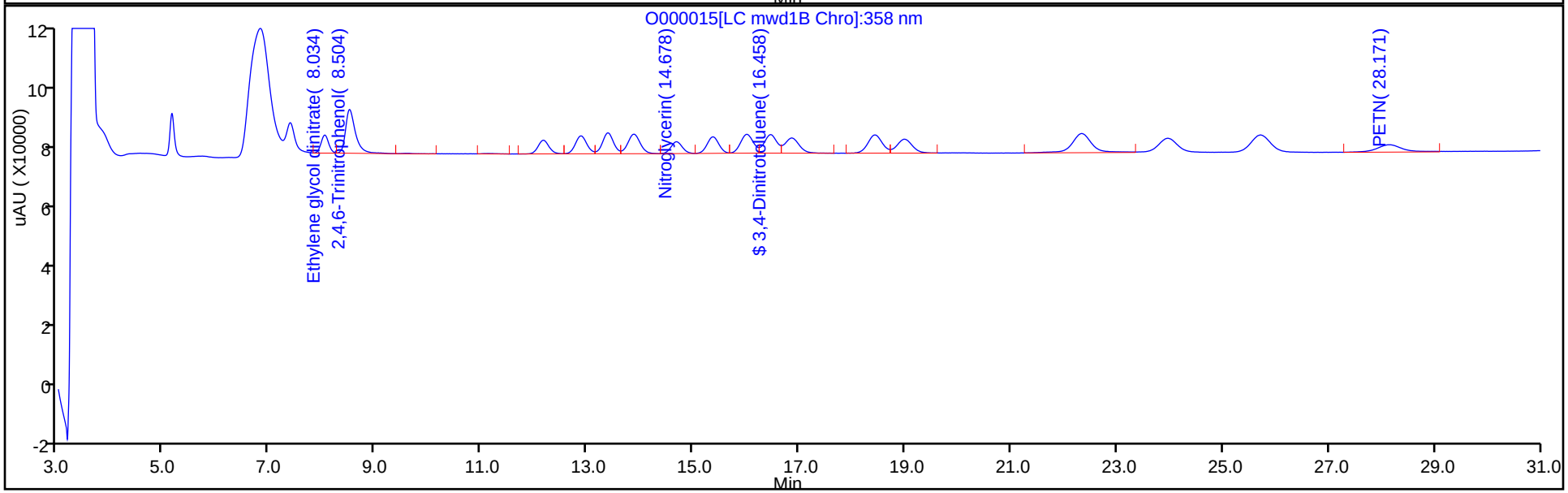
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000015.D

Injection Date:	15-Apr-2015 20:53:29	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCV 04			Worklist Smp#:	15
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71173/25 Calibration Date: 04/16/2015 04:09

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000025.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	145.2		4.94	5.00	-1.3	30.0
RDX	Ave	101.4	111.2		5.48	5.00	9.7	30.0
Ethylene glycol dinitrate	Ave	120.7	118.4		19.6	20.0	-1.9	30.0
Picric acid	Ave	130.7	131.9		20.2	20.0	0.9	30.0
1,3,5-Trinitrobenzene	Ave	194.5	198.6		5.11	5.00	2.1	30.0
1,3-Dinitrobenzene	Ave	186.8	191.0		5.11	5.00	2.2	30.0
3,5-Dinitroaniline	Ave	123.0	130.2		5.29	5.00	5.8	30.0
Tetryl	Ave	111.0	112.6		5.07	5.00	1.4	30.0
Nitrobenzene	Ave	84.47	77.80		4.60	5.00	-7.9	30.0
Nitroglycerin	Ave	76.63	76.75		20.0	20.0	0.2	30.0
2,4,6-Trinitrotoluene	Ave	113.7	116.2		5.11	5.00	2.2	30.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	96.20		5.26	5.00	5.1	30.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	106.6		5.22	5.00	4.4	30.0
2,6-Dinitrotoluene	Ave	71.94	74.80		5.20	5.00	4.0	30.0
2,4-Dinitrotoluene	Ave	118.3	123.4		5.22	5.00	4.3	30.0
2-Nitrotoluene	Ave	52.41	53.00		5.06	5.00	1.1	30.0
4-Nitrotoluene	Ave	62.96	64.00		5.08	5.00	1.7	30.0
3-Nitrotoluene	Ave	59.21	60.20		5.08	5.00	1.7	30.0
PETN	Ave	44.44	51.15		23.0	20.0	15.1	30.0
3,4-Dinitrotoluene	Ave	67.04	68.00		5.07	5.00	1.4	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71173/25 Calibration Date: 04/16/2015 04:09

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: O000025.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.14	4.89	5.39
RDX	7.38	7.13	7.63
Ethylene glycol dinitrate	8.03	7.78	8.28
Picric acid	8.55	8.30	8.80
1,3,5-Trinitrobenzene	9.58	9.33	9.83
1,3-Dinitrobenzene	12.15	11.90	12.40
3,5-Dinitroaniline	12.86	12.61	13.11
Tetryl	13.37	13.12	13.62
Nitrobenzene	13.84	13.59	14.09
Nitroglycerin	14.66	14.41	14.91
2,4,6-Trinitrotoluene	15.35	15.10	15.60
4-Amino-2,6-dinitrotoluene	15.97	15.72	16.22
2-Amino-4,6-dinitrotoluene	16.85	16.60	17.10
2,6-Dinitrotoluene	18.42	18.17	18.67
2,4-Dinitrotoluene	18.99	18.74	19.24
2-Nitrotoluene	22.28	22.03	22.53
4-Nitrotoluene	23.93	23.68	24.18
3-Nitrotoluene	25.64	25.39	25.89
PETN	28.11	27.86	28.36
3,4-Dinitrotoluene	16.40	16.15	16.65

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000025.D
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 16-Apr-2015 04:09:10 ALS Bottle#: 2 Worklist Smp#: 25
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021039-025
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150415-21039.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 16-Apr-2015 10:59:30 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK003

First Level Reviewer: huangyun Date: 16-Apr-2015 10:59:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.144	5.144	0.000	726H	5.00	4.94	
19 RDX							
1	7.377	7.377	0.000	556H	5.00	5.48	
3 Ethylene glycol dinitrate							
2	8.031	8.031	0.000	2367H	20.0	19.6	
10 2,4,6-Trinitrophenol							
2	8.547	8.547	0.000	2637H	20.0	20.2	
1	8.544	8.544	0.000	1846H	20.0	20.1	
27 1,3,5-Trinitrobenzene							
1	9.584	9.584	0.000	993H	5.00	5.11	
24 1,3-Dinitrobenzene							
1	12.154	12.154	0.000	955H	5.00	5.11	
9 3,5-Dinitroaniline							
1	12.864	12.864	0.000	651H	5.00	5.29	
20 Tetryl							
1	13.367	13.367	0.000	563H	5.00	5.07	
5 Nitrobenzene							
1	13.841	13.841	0.000	389H	5.00	4.60	
7 Nitroglycerin							
2	14.664	14.664	0.000	1535H	20.0	20.0	
25 2,4,6-Trinitrotoluene							
1	15.347	15.347	0.000	581H	5.00	5.11	
26 4-Amino-2,6-dinitrotoluene							
1	15.974	15.974	0.000	481H	5.00	5.26	
$ 30 3,4-Dinitrotoluene							
1	16.401	16.401	0.000	340H	5.00	5.07	
2	16.434	16.434	0.000	793H	5.00	5.91	
6 2-Amino-4,6-dinitrotoluene							
1	16.854	16.854	0.000	533H	5.00	5.22	
12 2,6-Dinitrotoluene							
1	18.417	18.417	0.000	374H	5.00	5.20	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	18.991	18.991	0.000	617H	5.00	5.22	
16 o-Nitrotoluene							
1	22.284	22.284	0.000	265H	5.00	5.06	
15 p-Nitrotoluene							
1	23.934	23.934	0.000	320H	5.00	5.08	
8 m-Nitrotoluene							
1	25.644	25.644	0.000	301H	5.00	5.08	
21 PETN							
2	28.114	28.114	0.000	1023H	20.0	23.0	

Reagents:

HP8330ICL_00023 Amount Added: 1.00 Units: mL

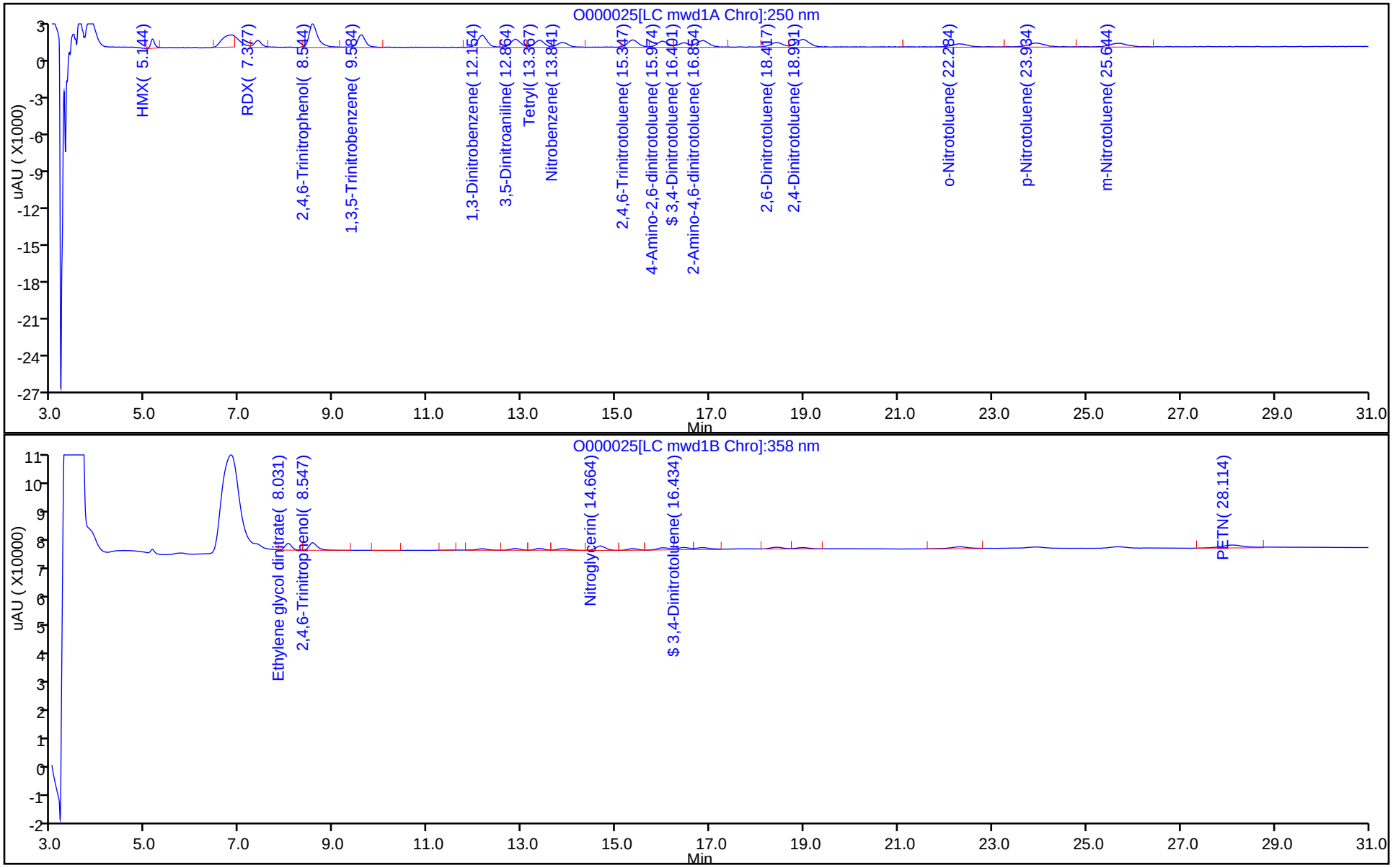
Report Date: 16-Apr-2015 10:59:30 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000025.D

Injection Date:	16-Apr-2015 04:09:10	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	25
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 320-63675/12 Calibration Date: 01/23/2015 23:28

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000012.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.26	48.96		203	200	1.4	20.0
Ethylene glycol dinitrate	Lin2		48.69		194	200	-3.0	20.0
1,3-Dinitrobenzene	Ave	105.6	103.4		196	200	-2.1	20.0
1,3,5-Trinitrobenzene	Ave	85.12	80.01		188	200	-6.0	20.0
2-Nitrotoluene	Ave	64.74	61.64		190	200	-4.8	20.0
4-Nitrotoluene	Ave	64.74	61.64		190	200	-4.8	20.0
3-Nitrotoluene	Lin2		37.89		214	200	7.0	20.0
3,5-Dinitroaniline	Ave	86.06	80.86		188	200	-6.0	20.0
RDX	Lin2		47.24		210	200	4.9	20.0
2,4-Dinitrotoluene	Ave	91.69	88.20		192	200	-3.8	20.0
2,6-Dinitrotoluene	Ave	55.03	53.46		194	200	-2.9	20.0
2-Amino-4,6-dinitrotoluene	Ave	78.89	75.91		192	200	-3.8	20.0
4-Amino-2,6-dinitrotoluene	Ave	66.06	64.27		195	200	-2.7	20.0
2,4,6-Trinitrotoluene	Ave	77.95	77.38		199	200	-0.7	20.0
HMX	Ave	59.64	59.09		198	200	-0.9	20.0
Nitroglycerin	Ave	88.51	85.46		193	200	-3.4	20.0
Tetryl	Ave	116.9	114.4		196	200	-2.1	20.0
PETN	Ave	134.8	132.0		196	200	-2.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICV 320-63675/12 Calibration Date: 01/23/2015 23:28

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	21.54	21.34	21.84
Ethylene glycol dinitrate	22.75	22.52	23.02
1,3-Dinitrobenzene	24.39	24.18	24.68
1,3,5-Trinitrobenzene	26.83	26.64	27.14
2-Nitrotoluene	28.17	27.98	28.48
4-Nitrotoluene	28.17	27.98	28.48
3-Nitrotoluene	28.74	28.55	29.05
3,5-Dinitroaniline	30.27	30.08	30.58
RDX	30.91	30.72	31.22
2,4-Dinitrotoluene	31.65	31.46	31.96
2,6-Dinitrotoluene	32.55	32.37	32.87
2-Amino-4,6-dinitrotoluene	34.81	34.63	35.13
4-Amino-2,6-dinitrotoluene	35.24	35.05	35.55
2,4,6-Trinitrotoluene	38.81	38.60	39.10
HMX	40.91	40.69	41.19
Nitroglycerin	43.28	43.07	43.57
Tetryl	45.02	44.79	45.29
PETN	51.57	51.34	51.84

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000012.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 23-Jan-2015 23:28:27 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-012
Operator ID: TQP Instrument ID: LC9
Sublist:

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:33 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:04:28

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.538	21.586	-0.048	9791H	200.0	202.9	
4 Ethylene glycol dinitrate							
2	22.745	22.772	-0.027	9738H	200.0	194.0	
5 1,3-Dinitrobenzene							
1	24.388	24.432	-0.044	20679H	200.0	195.8	
7 1,3,5-Trinitrobenzene							
1	26.828	26.886	-0.058	16002H	200.0	188.0	
9 p-Nitrotoluene							
1	28.165	28.226	-0.061	12327H	200.0	190.4	
8 o-Nitrotoluene							
1	28.165	28.226	-0.061	12327H	200.0	190.4	
10 m-Nitrotoluene							
1	28.735	28.802	-0.067	7577H	200.0	214.0	
11 3,5-Dinitroaniline							
1	30.272	30.326	-0.054	16172H	200.0	187.9	
12 RDX							
1	30.905	30.969	-0.064	9447H	200.0	209.8	
13 2,4-Dinitrotoluene							
1	31.652	31.709	-0.057	17640H	200.0	192.4	
14 2,6-Dinitrotoluene							
1	32.545	32.616	-0.071	10691H	200.0	194.3	
15 2-Amino-4,6-dinitrotoluene							
1	34.808	34.879	-0.071	15181H	200.0	192.4	
16 4-Amino-2,6-dinitrotoluene							
1	35.242	35.302	-0.060	12854H	200.0	194.6	
18 2,4,6-Trinitrotoluene							
1	38.805	38.852	-0.047	15475H	200.0	198.5	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
19 HMX							
1	40.905	40.939	-0.034	11817H	200.0	198.1	
20 Nitroglycerin							
2	43.282	43.315	-0.033	17092H	200.0	193.1	
21 Tetryl							
1	45.022	45.042	-0.020	22883H	200.0	195.7	
22 PETN							M
2	51.565	51.585	-0.020	26403H	200.0	195.9	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330IC_00025 Amount Added: 1.00 Units: mL

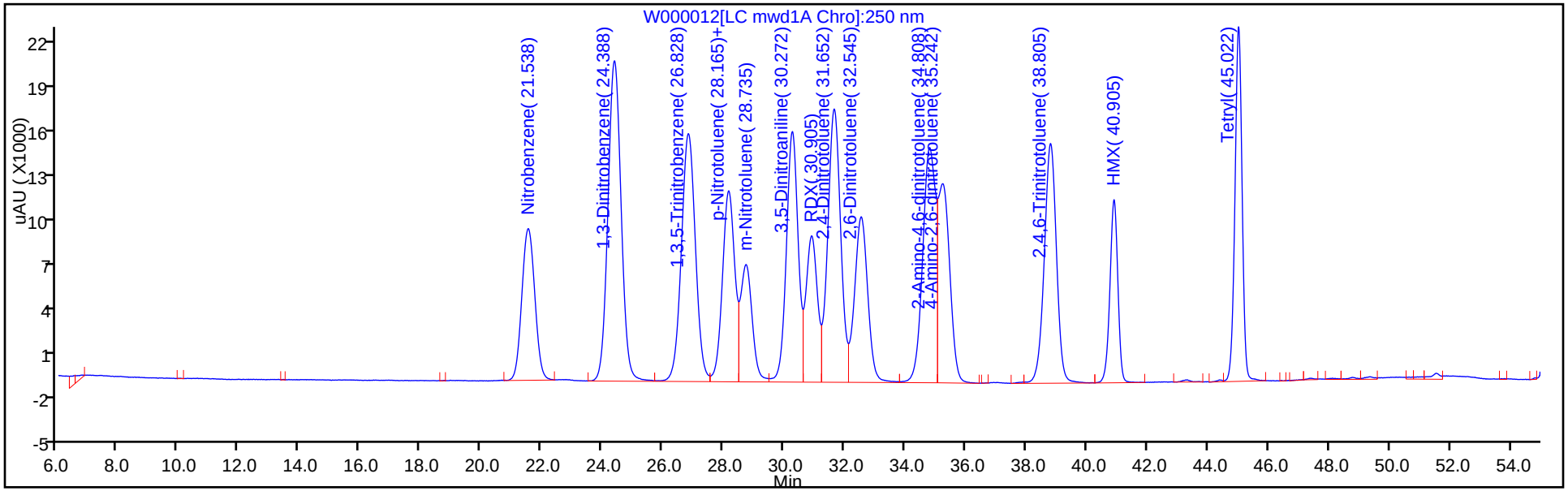
Report Date: 26-Jan-2015 12:47:36 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

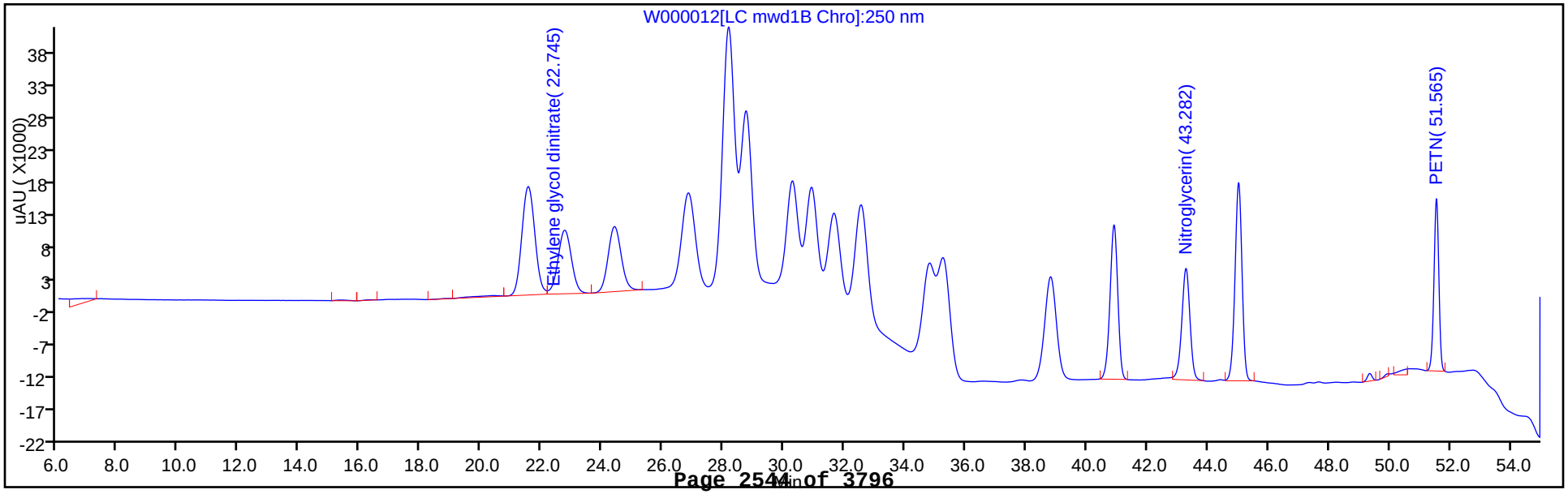
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000012.D

Injection Date:	23-Jan-2015 23:28:27	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

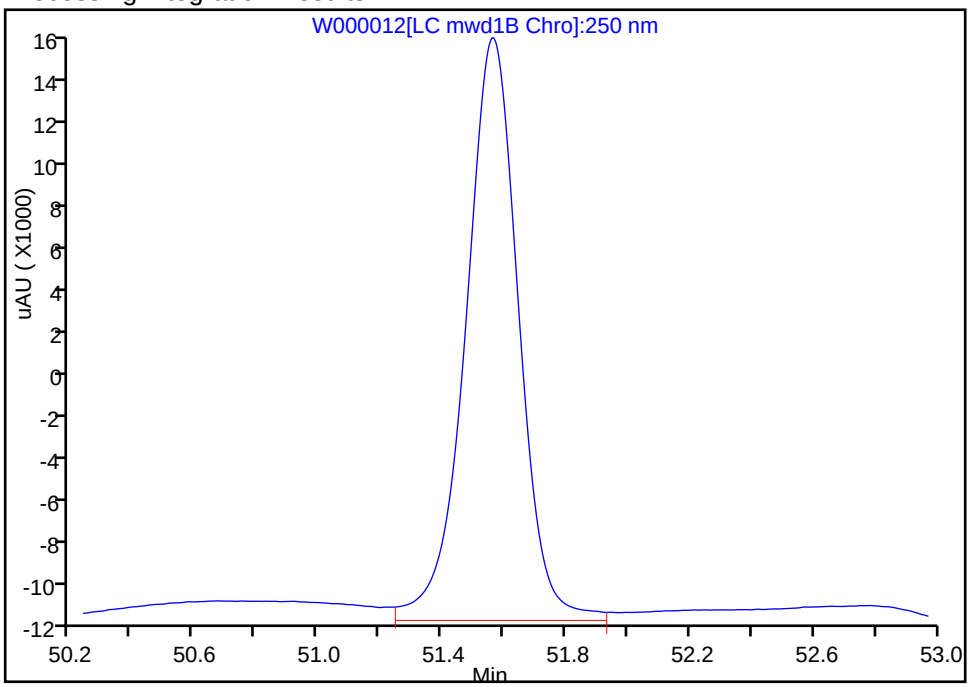
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000012.D
Injection Date: 23-Jan-2015 23:28:27 Instrument ID: LC9
Lims ID: ICV
Client ID:
Operator ID: TQP ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

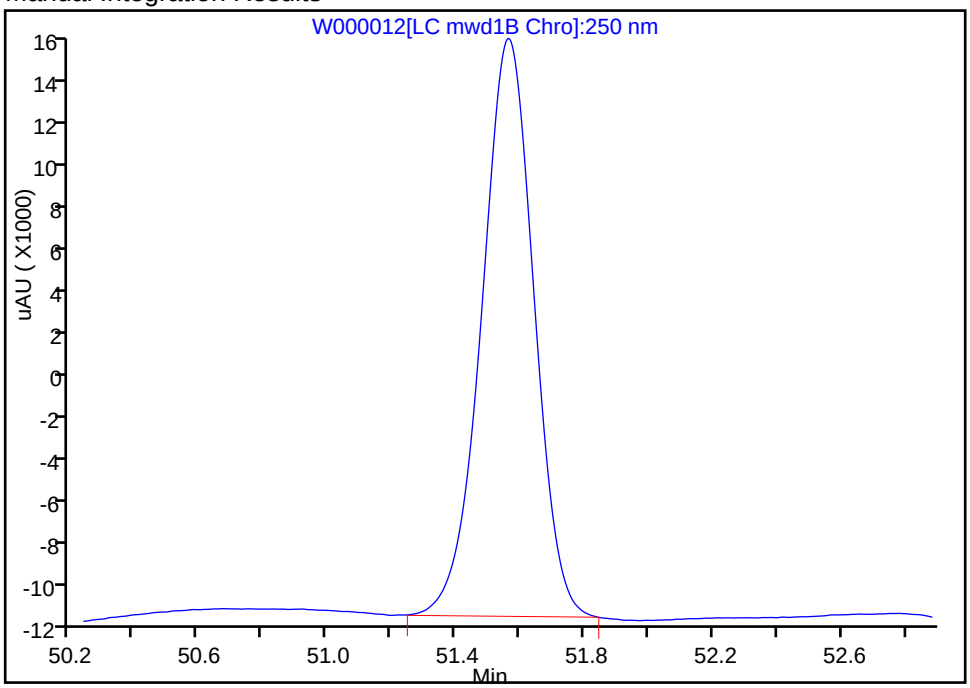
Processing Integration Results

RT: 51.56
Height: 26956
Amount: 179.1355
Amount Units: ng/ml



Manual Integration Results

RT: 51.56
Height: 26403
Amount: 195.8902
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:04:28
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 320-63675/13 Calibration Date: 01/24/2015 00:35

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000013.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.26	53.60		5.55	5.00	11.1	
Ethylene glycol dinitrate	Lin2		60.95		20.2	20.0	0.8	
1,3-Dinitrobenzene	Ave	105.6	113.8		5.39	5.00	7.8	
1,3,5-Trinitrobenzene	Ave	85.12	87.60		5.15	5.00	2.9	
2-Nitrotoluene	Ave	64.74	72.40		5.59	5.00	11.8	
4-Nitrotoluene	Ave	64.74	72.40		5.59	5.00	11.8	
3-Nitrotoluene	Lin2		46.80		4.38	5.00	-12.3	
3,5-Dinitroaniline	Ave	86.06	99.40		5.77	5.00	15.5	
RDX	Lin2		68.00		4.66	5.00	-6.9	
2,4-Dinitrotoluene	Ave	91.69	103.4		5.64	5.00	12.8	
2,6-Dinitrotoluene	Ave	55.03	64.40		5.85	5.00	17.0	
2-Amino-4,6-dinitrotoluene	Ave	78.89	89.60		5.68	5.00	13.6	
4-Amino-2,6-dinitrotoluene	Ave	66.06	74.60		5.65	5.00	12.9	
2,4,6-Trinitrotoluene	Ave	77.95	84.60		5.43	5.00	8.5	
HMX	Ave	59.64	64.40		5.40	5.00	8.0	
Nitroglycerin	Ave	88.51	97.35		22.0	20.0	10.0	
Tetryl	Ave	116.9	128.6		5.50	5.00	10.0	
PETN	Ave	134.8	131.6		19.5	20.0	-2.4	
3,4-Dinitrotoluene	Ave	47.37	52.60		5.55	5.00	11.0	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: LODV 320-63675/13 Calibration Date: 01/24/2015 00:35

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	21.53	21.34	21.84
Ethylene glycol dinitrate	22.76	22.52	23.02
1,3-Dinitrobenzene	24.41	24.18	24.68
1,3,5-Trinitrobenzene	26.87	26.64	27.14
2-Nitrotoluene	28.14	27.98	28.48
4-Nitrotoluene	28.14	27.98	28.48
3-Nitrotoluene	28.71	28.55	29.05
3,5-Dinitroaniline	30.30	30.08	30.58
RDX	30.92	30.72	31.22
2,4-Dinitrotoluene	31.68	31.46	31.96
2,6-Dinitrotoluene	32.54	32.37	32.87
2-Amino-4,6-dinitrotoluene	34.78	34.63	35.13
4-Amino-2,6-dinitrotoluene	35.19	35.05	35.55
2,4,6-Trinitrotoluene	38.80	38.60	39.10
HMX	40.91	40.69	41.19
Nitroglycerin	43.26	43.07	43.57
Tetryl	44.98	44.79	45.29
PETN	51.53	51.34	51.84
3,4-Dinitrotoluene	36.97	36.76	37.26

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000013.D
Lims ID: LODV
Client ID:
Sample Type: LODV
Inject. Date: 24-Jan-2015 00:35:09 ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0018933-013
Operator ID: TQP Instrument ID: LC9

Method: \\SACChrom\ChromData\LC9\20150123-18933.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 26-Jan-2015 12:47:33 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK031

First Level Reviewer: phant Date: 26-Jan-2015 10:04:45

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.529	21.586	-0.057	268H	5.00	5.55	
4 Ethylene glycol dinitrate							
2	22.763	22.772	-0.009	1219H	20.0	20.2	
5 1,3-Dinitrobenzene							
1	24.406	24.432	-0.026	569H	5.00	5.39	
7 1,3,5-Trinitrobenzene							M
1	26.873	26.886	-0.013	438H	5.00	5.15	M
9 p-Nitrotoluene							
1	28.139	28.226	-0.087	362H	5.00	5.59	
8 o-Nitrotoluene							
1	28.139	28.226	-0.087	362H	5.00	5.59	
10 m-Nitrotoluene							
1	28.713	28.802	-0.089	234H	5.00	4.38	
11 3,5-Dinitroaniline							
1	30.299	30.326	-0.027	497H	5.00	5.77	
12 RDX							
1	30.919	30.969	-0.050	340H	5.00	4.66	
13 2,4-Dinitrotoluene							
1	31.683	31.709	-0.026	517H	5.00	5.64	
14 2,6-Dinitrotoluene							
1	32.536	32.616	-0.080	322H	5.00	5.85	
15 2-Amino-4,6-dinitrotoluene							M
1	34.783	34.879	-0.096	448H	5.00	5.68	M
16 4-Amino-2,6-dinitrotoluene							M
1	35.193	35.302	-0.109	373H	5.00	5.65	M
$ 17 3,4-Dinitrotoluene							
1	36.969	37.005	-0.036	263H	5.00	5.55	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
18 2,4,6-Trinitrotoluene							
1	38.799	38.852	-0.053	423H	5.00	5.43	
19 HMX							
1	40.906	40.939	-0.033	322H	5.00	5.40	
20 Nitroglycerin							
2	43.263	43.315	-0.052	1947H	20.0	22.0	
21 Tetryl							
1	44.983	45.042	-0.059	643H	5.00	5.50	
22 PETN							M
2	51.533	51.585	-0.052	2631H	20.0	19.5	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330ICL_00019 Amount Added: 1.00 Units: mL

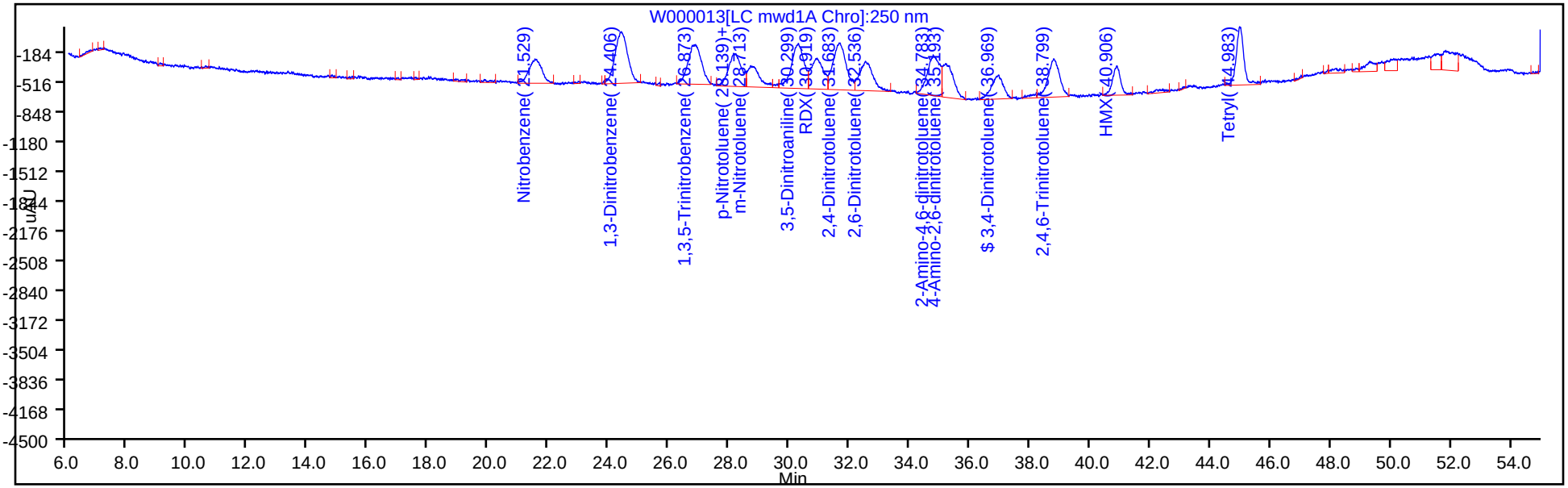
Report Date: 26-Jan-2015 12:47:37 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Sacramento

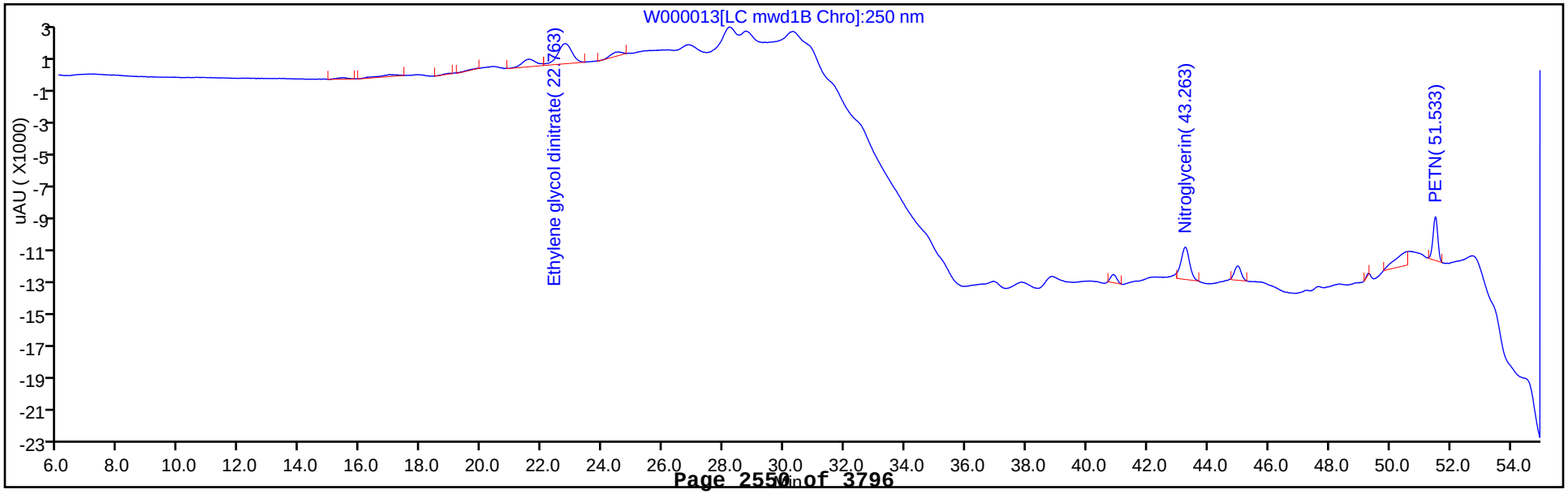
Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000013.D

Injection Date:	24-Jan-2015 00:35:09	Instrument ID:	LC9	Operator ID:	TQP
Lims ID:	LODV			Worklist Smp#:	13
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

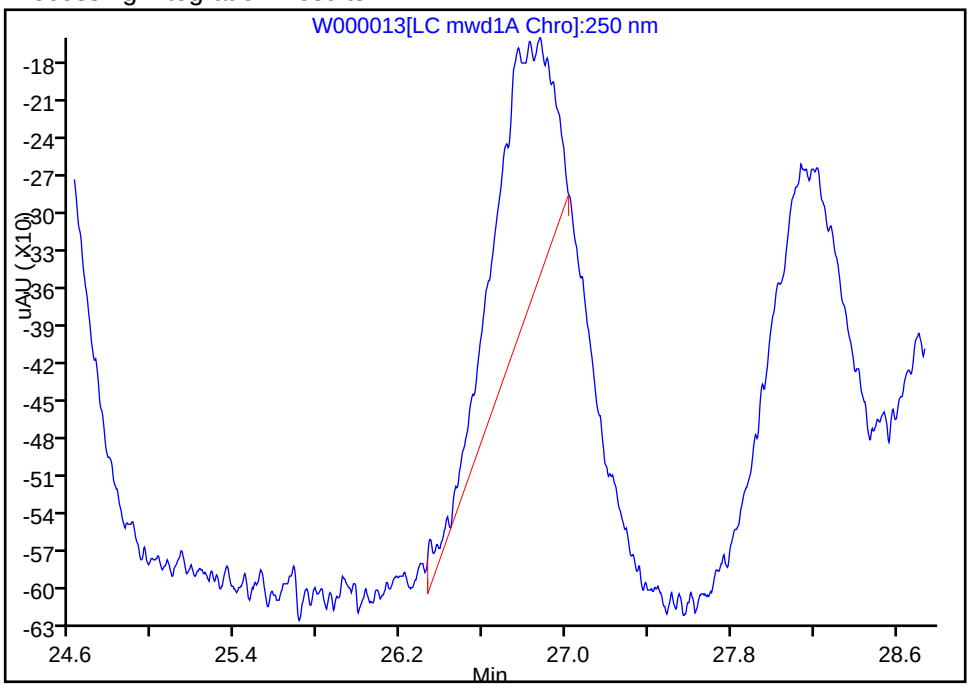
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000013.D
Injection Date: 24-Jan-2015 00:35:09 Instrument ID: LC9
Lims ID: LODV
Client ID:
Operator ID: TQP ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

7 1,3,5-Trinitrobenzene, CAS: 99-35-4

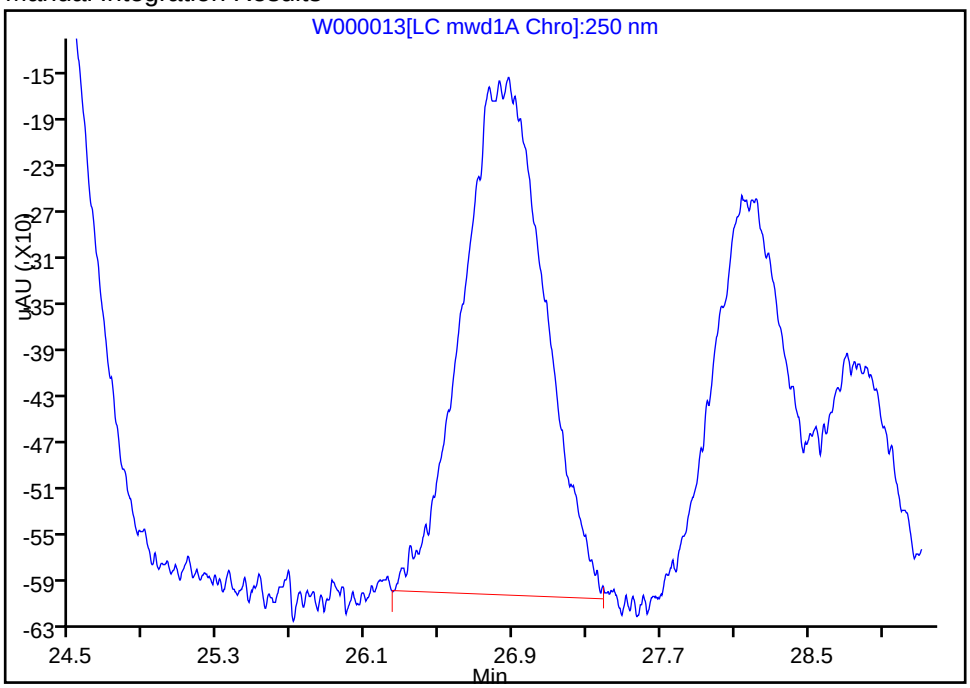
Processing Integration Results

RT: 26.77
Height: 228
Amount: 2.678567
Amount Units: ng/ml



Manual Integration Results

RT: 26.87
Height: 438
Amount: 5.145668
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:19:51
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

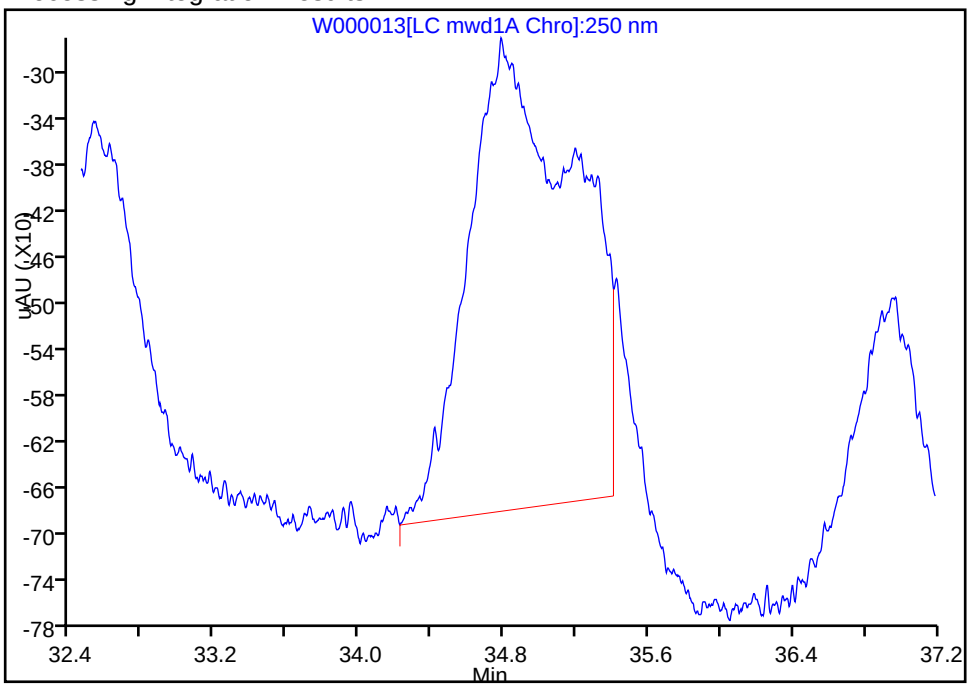
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000013.D
Injection Date: 24-Jan-2015 00:35:09 Instrument ID: LC9
Lims ID: LODV
Client ID:
Operator ID: TQP ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

15 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

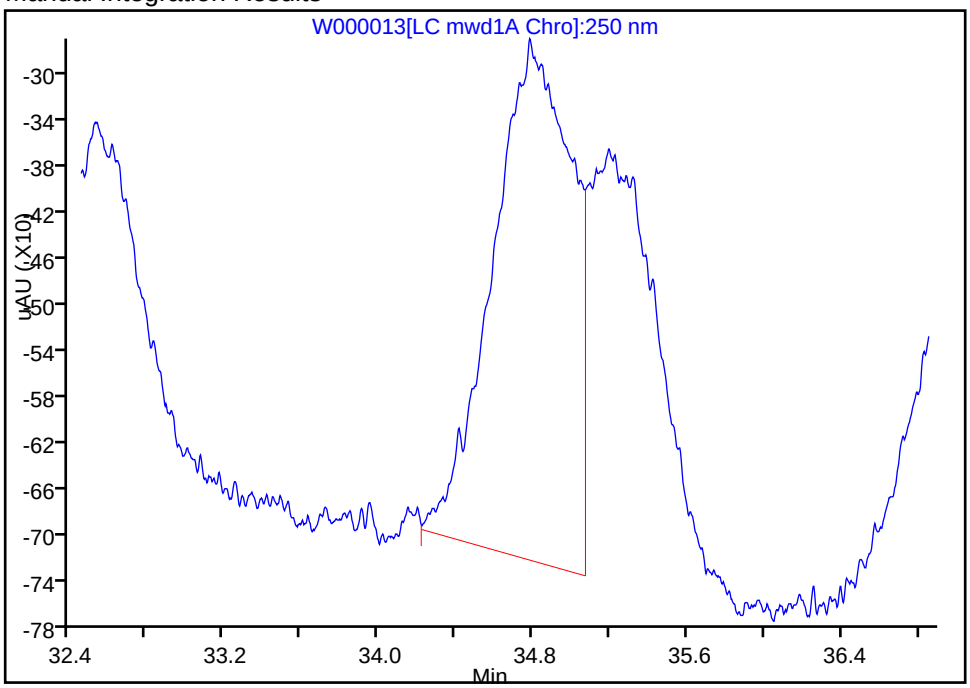
Processing Integration Results

RT: 34.78
Height: 407
Amount: 5.157896
Amount Units: ng/ml



Manual Integration Results

RT: 34.78
Height: 448
Amount: 5.678721
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:19:51
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

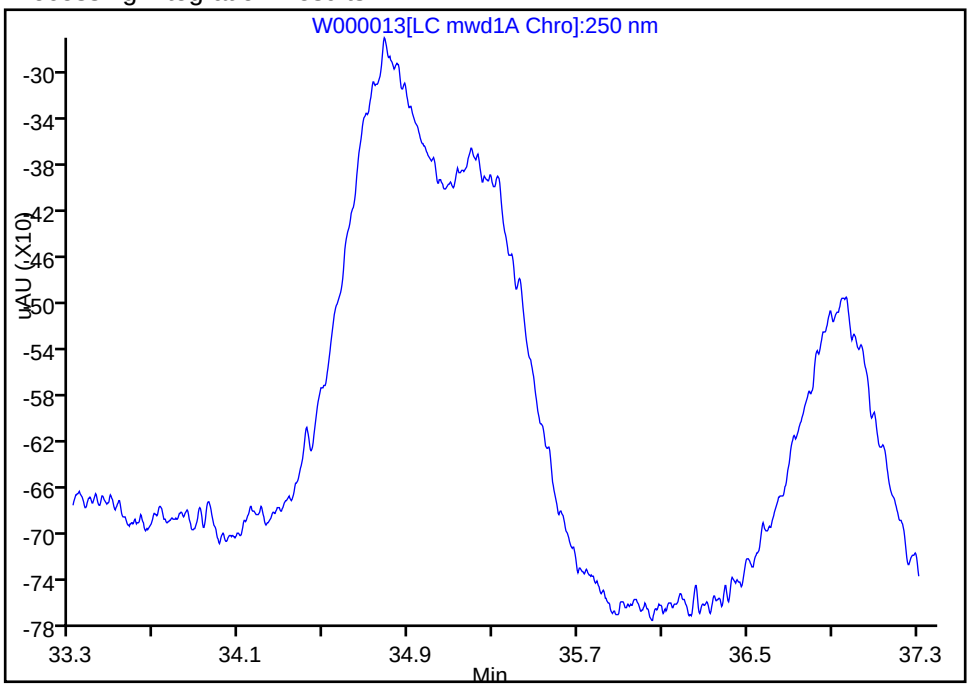
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000013.D
Injection Date: 24-Jan-2015 00:35:09 Instrument ID: LC9
Lims ID: LODV
Client ID:
Operator ID: TQP ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

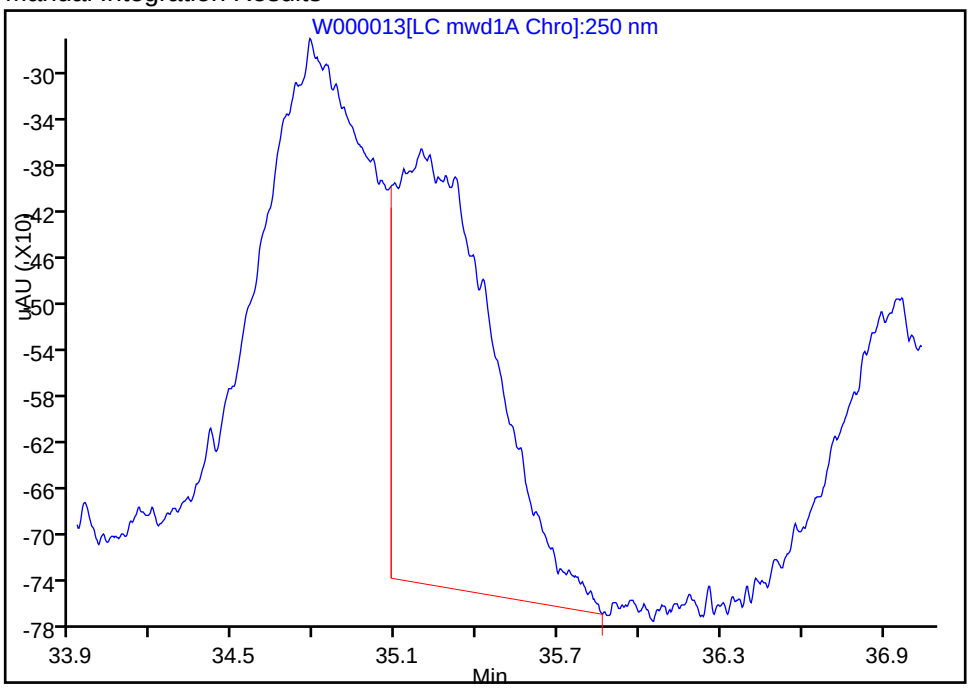
Not Detected
Expected RT: 35.30

Processing Integration Results



Manual Integration Results

RT: 35.19
Height: 373
Amount: 5.646187
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:19:51
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

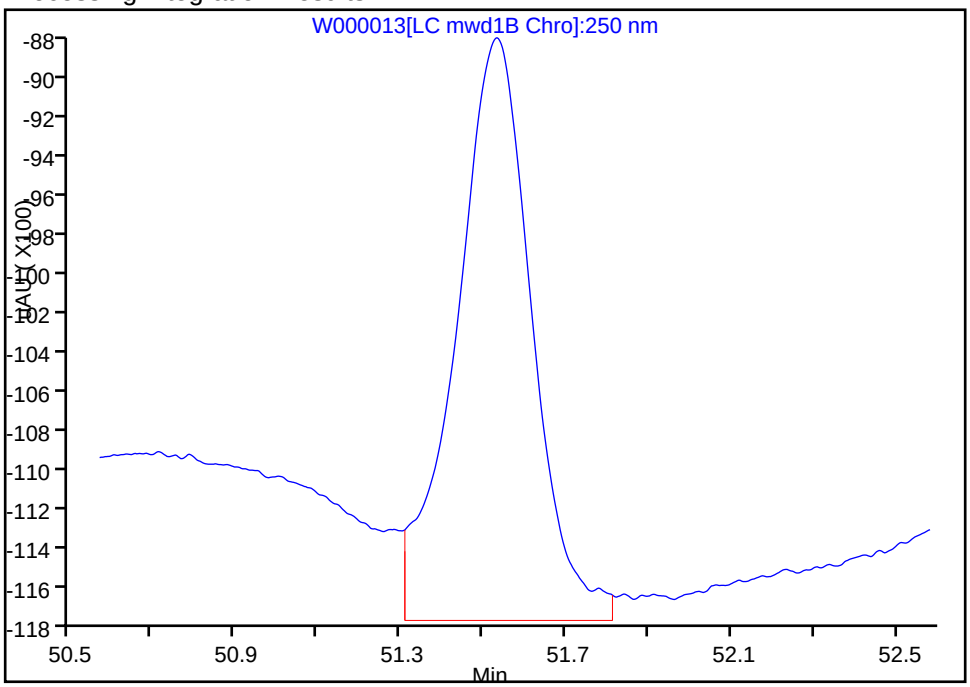
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000013.D
Injection Date: 24-Jan-2015 00:35:09 Instrument ID: LC9
Lims ID: LODV
Client ID:
Operator ID: TQP ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

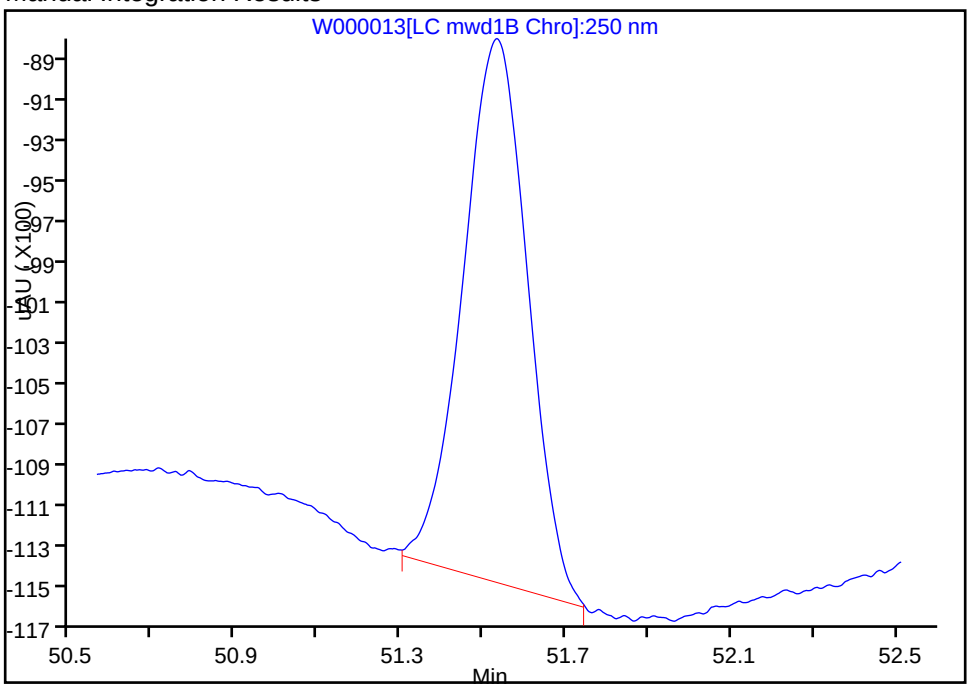
Processing Integration Results

RT: 51.53
Height: 2924
Amount: 19.431375
Amount Units: ng/ml



Manual Integration Results

RT: 51.53
Height: 2631
Amount: 19.520025
Amount Units: ng/ml



Reviewer: phant, 26-Jan-2015 10:04:45
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71996/3 Calibration Date: 04/23/2015 18:05

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000003.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.26	52.40		5.43	5.00	8.6	30.0
Ethylene glycol dinitrate	Lin2		51.95		16.5	20.0	-17.6	30.0
1,3-Dinitrobenzene	Ave	105.6	101.4		4.80	5.00	-4.0	30.0
1,3,5-Trinitrobenzene	Ave	85.12	81.00		4.76	5.00	-4.8	30.0
2-Nitrotoluene	Ave	64.74	65.60		5.07	5.00	1.3	30.0
4-Nitrotoluene	Ave	64.74	65.60		5.07	5.00	1.3	30.0
3,5-Dinitroaniline	Ave	86.06	83.60		4.86	5.00	-2.9	30.0
2,4-Dinitrotoluene	Ave	91.69	93.80		5.12	5.00	2.3	30.0
2,6-Dinitrotoluene	Ave	55.03	48.80		4.43	5.00	-11.3	30.0
2-Amino-4,6-dinitrotoluene	Ave	78.89	79.40		5.03	5.00	0.6	30.0
4-Amino-2,6-dinitrotoluene	Ave	66.06	67.80		5.13	5.00	2.6	30.0
2,4,6-Trinitrotoluene	Ave	77.95	75.80		4.86	5.00	-2.8	30.0
HMX	Ave	59.64	61.20		5.13	5.00	2.6	30.0
Nitroglycerin	Ave	88.51	83.60		18.9	20.0	-5.5	30.0
Tetryl	Ave	116.9	112.8		4.82	5.00	-3.5	30.0
PETN	Ave	134.8	135.5		20.1	20.0	0.5	30.0
3,4-Dinitrotoluene	Ave	47.37	52.00		5.49	5.00	9.8	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71996/3 Calibration Date: 04/23/2015 18:05

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	21.45	21.20	21.70
Ethylene glycol dinitrate	22.67	22.42	22.92
1,3-Dinitrobenzene	24.31	24.06	24.56
1,3,5-Trinitrobenzene	26.71	26.46	26.96
2-Nitrotoluene	28.11	27.86	28.36
4-Nitrotoluene	28.11	27.86	28.36
3,5-Dinitroaniline	30.17	29.92	30.42
2,4-Dinitrotoluene	31.56	31.31	31.81
2,6-Dinitrotoluene	32.39	32.14	32.64
2-Amino-4,6-dinitrotoluene	34.66	34.41	34.91
4-Amino-2,6-dinitrotoluene	35.11	34.87	35.37
2,4,6-Trinitrotoluene	38.67	38.42	38.92
HMX	40.82	40.57	41.07
Nitroglycerin	43.17	42.92	43.42
Tetryl	44.90	44.65	45.15
PETN	51.37	51.12	51.62
3,4-Dinitrotoluene	36.79	36.54	37.04

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000003.D
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 23-Apr-2015 18:05:46 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021276-003
Operator ID: YPH Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150423-21276.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 17:16:16 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 17:16:16

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.453	21.453	0.000	262H	5.00	5.43	
4 Ethylene glycol dinitrate							
2	22.670	22.670	0.000	1039H	20.0	16.5	
5 1,3-Dinitrobenzene							
1	24.306	24.306	0.000	507H	5.00	4.80	
7 1,3,5-Trinitrobenzene							
1	26.710	26.710	0.000	405H	5.00	4.76	
9 p-Nitrotoluene							
1	28.113	28.113	0.000	328H	5.00	5.07	
8 o-Nitrotoluene							
1	28.113	28.113	0.000	328H	5.00	5.07	
10 m-Nitrotoluene							
1	28.630	28.630	0.000	195H	5.00	3.27	
11 3,5-Dinitroaniline							M
1	30.166	30.166	0.000	418H	5.00	4.86	M
12 RDX							M
1	30.783	30.783	0.000	276H	5.00	3.22	M
13 2,4-Dinitrotoluene							M
1	31.560	31.560	0.000	469H	5.00	5.12	M
14 2,6-Dinitrotoluene							
1	32.393	32.393	0.000	244H	5.00	4.43	
15 2-Amino-4,6-dinitrotoluene							M
1	34.663	34.663	0.000	397H	5.00	5.03	M
16 4-Amino-2,6-dinitrotoluene							M
1	35.113	35.124	-0.011	339H	5.00	5.13	M
$ 17 3,4-Dinitrotoluene							
1	36.793	36.793	0.000	260H	5.00	5.49	
18 2,4,6-Trinitrotoluene							
1	38.669	38.669	0.000	379H	5.00	4.86	
19 HMX							
1	40.823	40.823	0.000	306H	5.00	5.13	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
20 Nitroglycerin							
2	43.166	43.166	0.000	1672H	20.0	18.9	
21 Tetryl							
1	44.896	44.896	0.000	564H	5.00	4.82	
22 PETN							M
2	51.373	51.373	0.000	2709H	20.0	20.1	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330icl_00025 Amount Added: 1.00 Units: mL

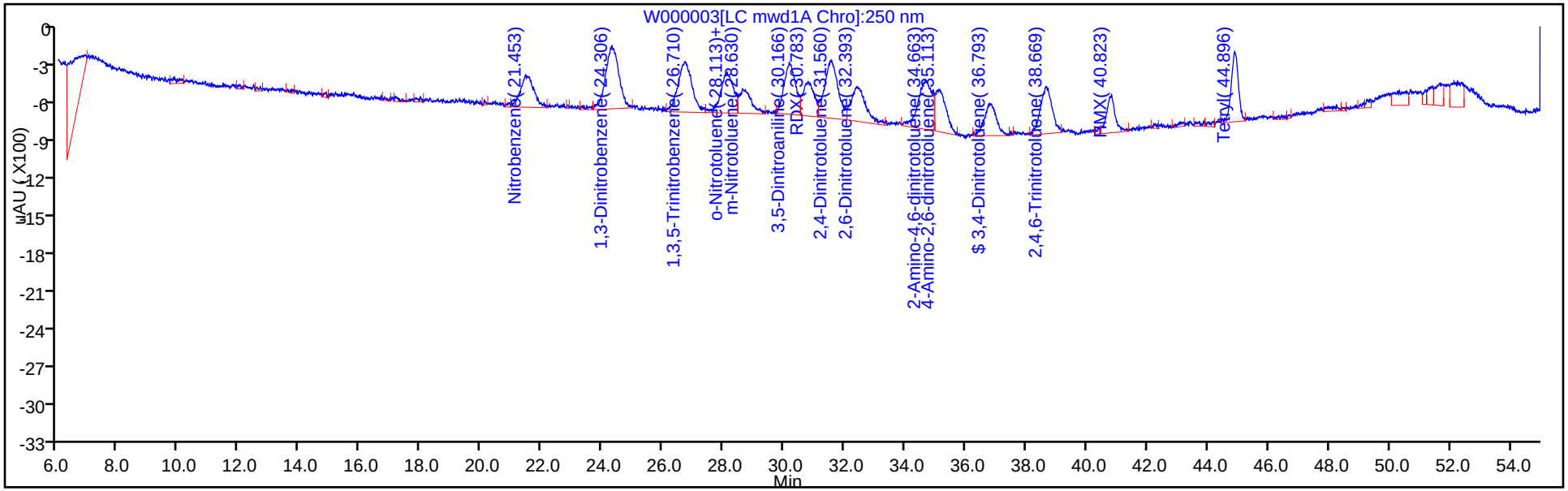
Report Date: 24-Apr-2015 17:16:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

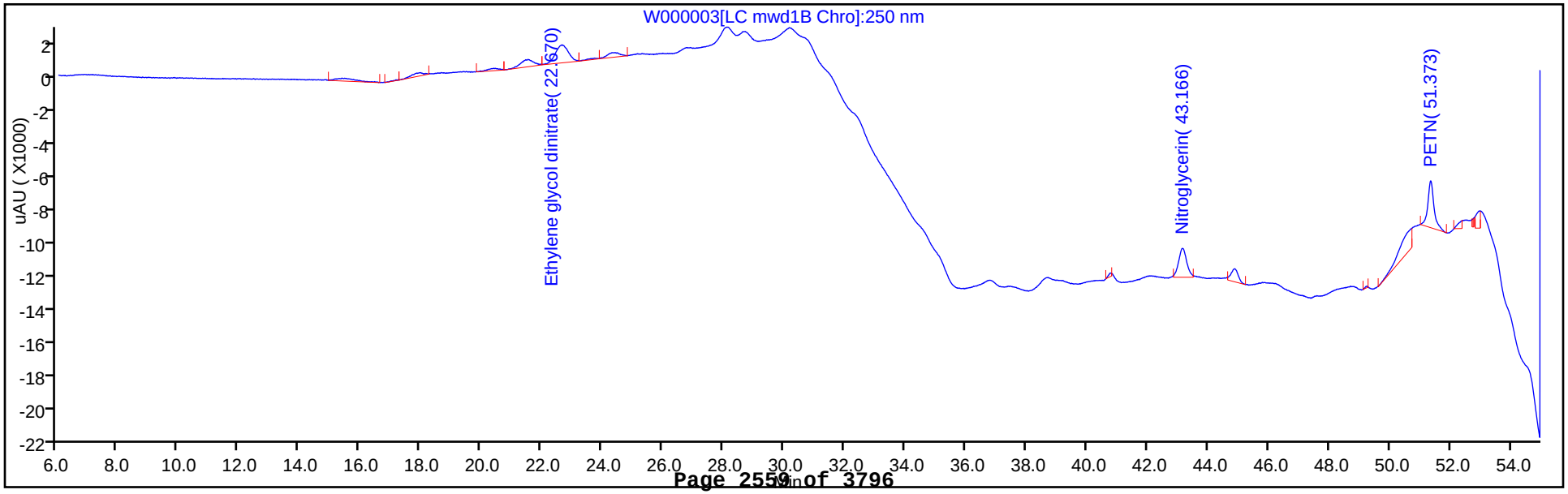
Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000003.D

Injection Date:	23-Apr-2015 18:05:46	Instrument ID:	LC9	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	3
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

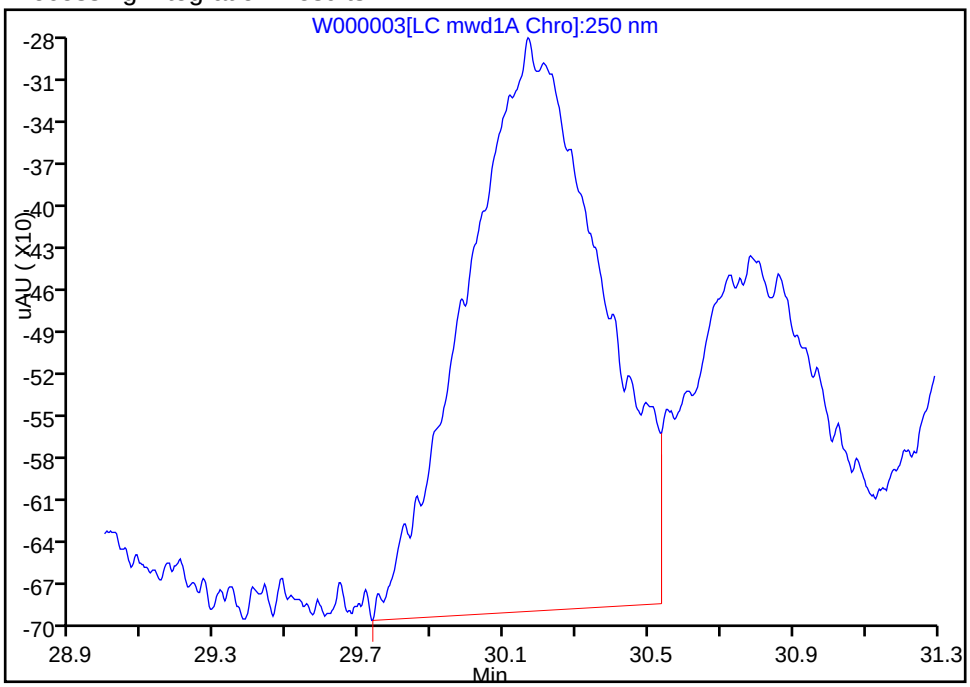
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000003.D
Injection Date: 23-Apr-2015 18:05:46 Instrument ID: LC9
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

11 3,5-Dinitroaniline, CAS: 618-87-1

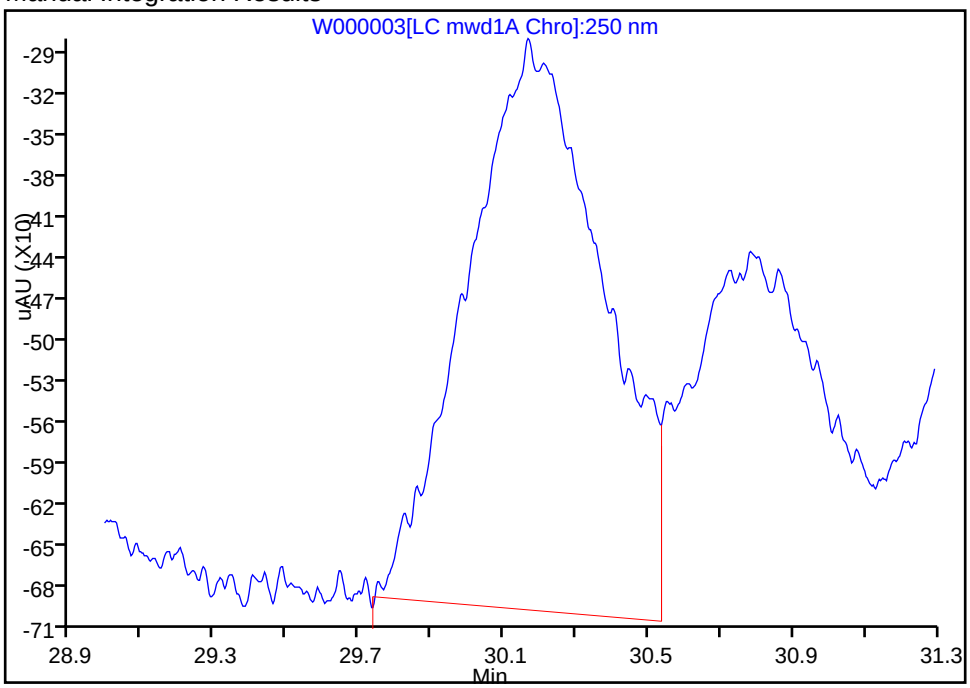
Processing Integration Results

RT: 30.17
Height: 410
Amount: 4.764007
Amount Units: ng/ml



Manual Integration Results

RT: 30.17
Height: 418
Amount: 4.856964
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:16:16
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

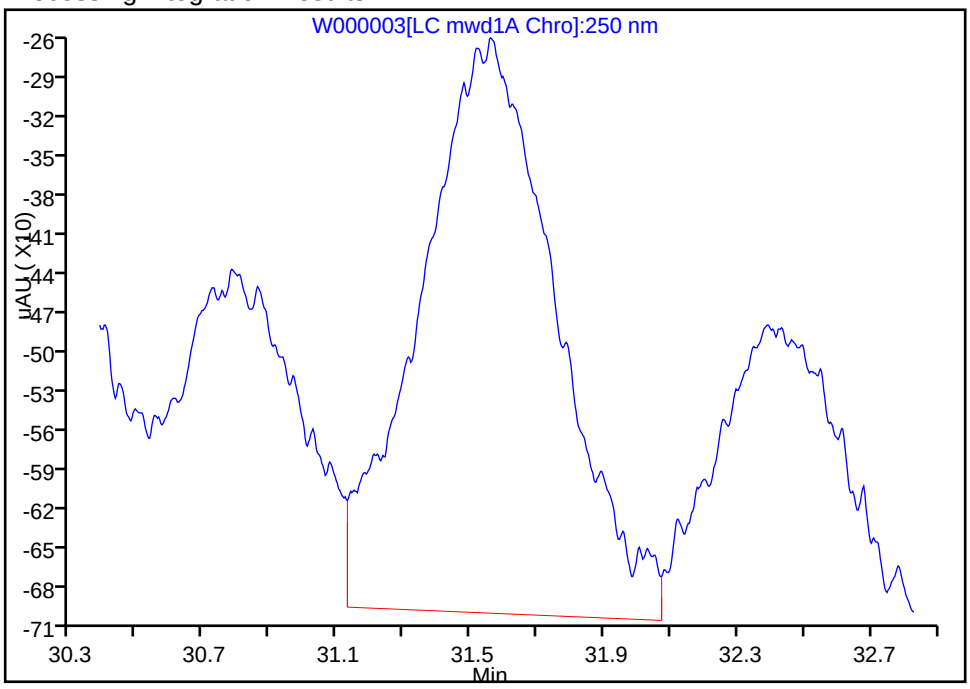
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000003.D
Injection Date: 23-Apr-2015 18:05:46 Instrument ID: LC9
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

13 2,4-Dinitrotoluene, CAS: 121-14-2

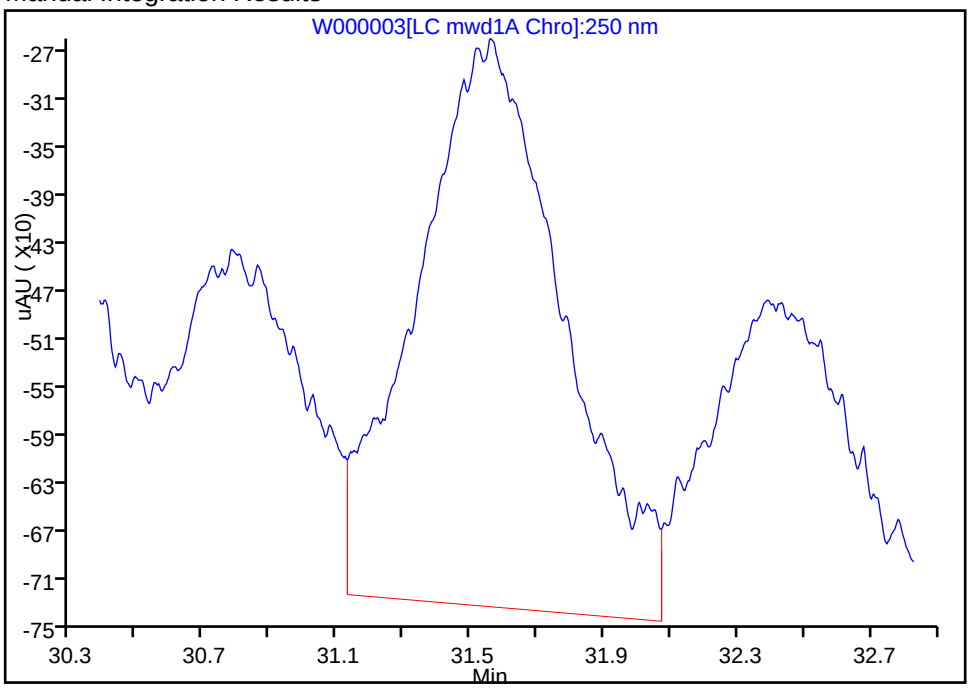
Processing Integration Results

RT: 31.56
Height: 432
Amount: 4.711778
Amount Units: ng/ml



Manual Integration Results

RT: 31.56
Height: 469
Amount: 5.115333
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:16:16
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

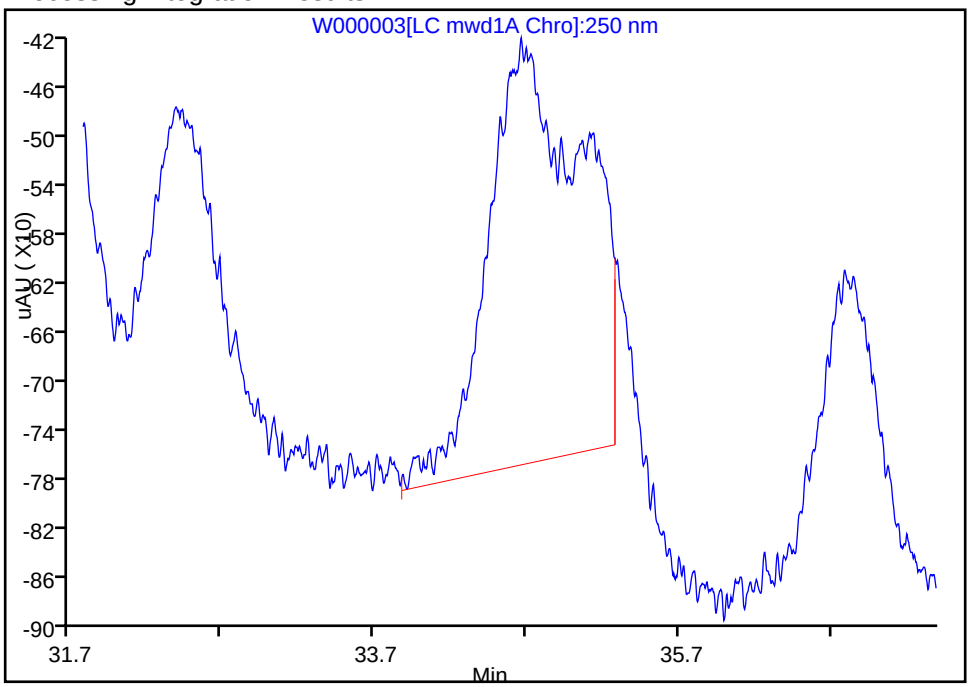
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000003.D
Injection Date: 23-Apr-2015 18:05:46 Instrument ID: LC9
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

15 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

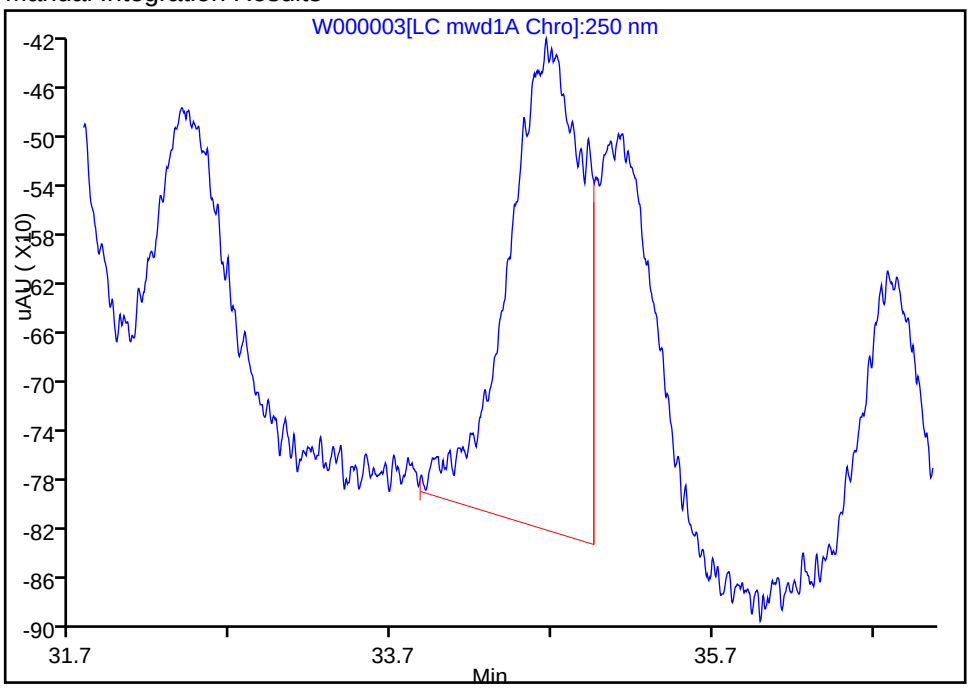
Processing Integration Results

RT: 34.66
Height: 345
Amount: 4.373122
Amount Units: ng/ml



Manual Integration Results

RT: 34.66
Height: 397
Amount: 5.032260
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:16:16
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

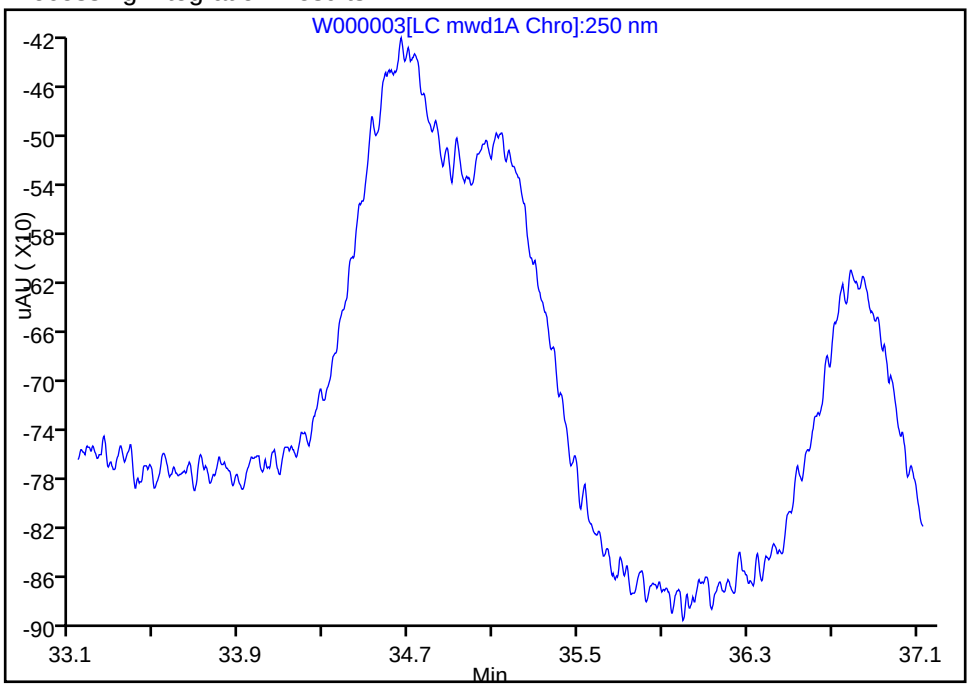
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000003.D
Injection Date: 23-Apr-2015 18:05:46 Instrument ID: LC9
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

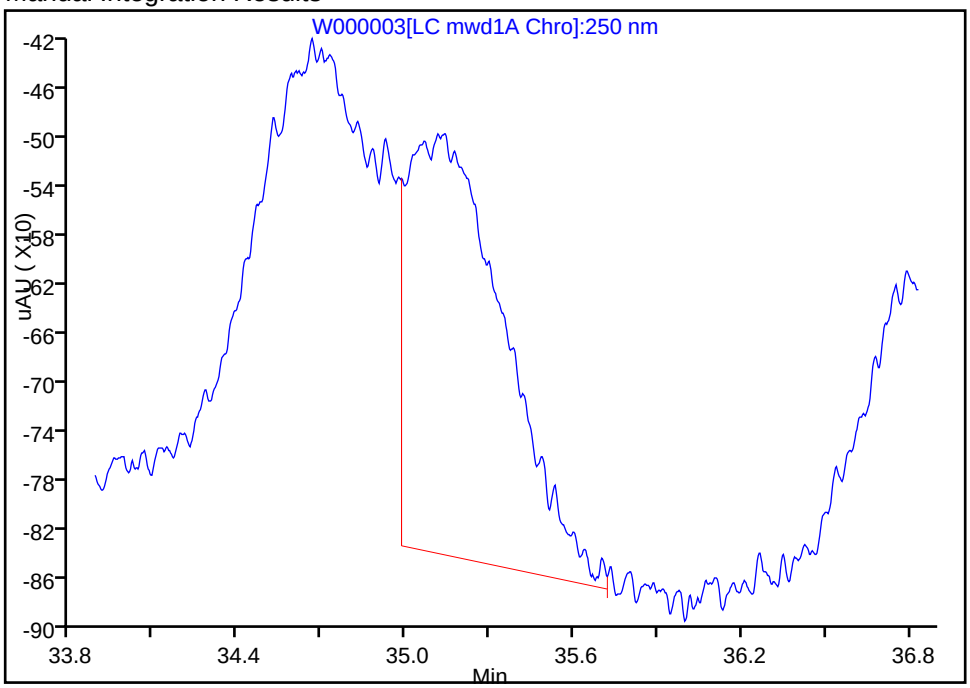
Not Detected
Expected RT: 35.12

Processing Integration Results



Manual Integration Results

RT: 35.11
Height: 339
Amount: 5.131521
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:16:16
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

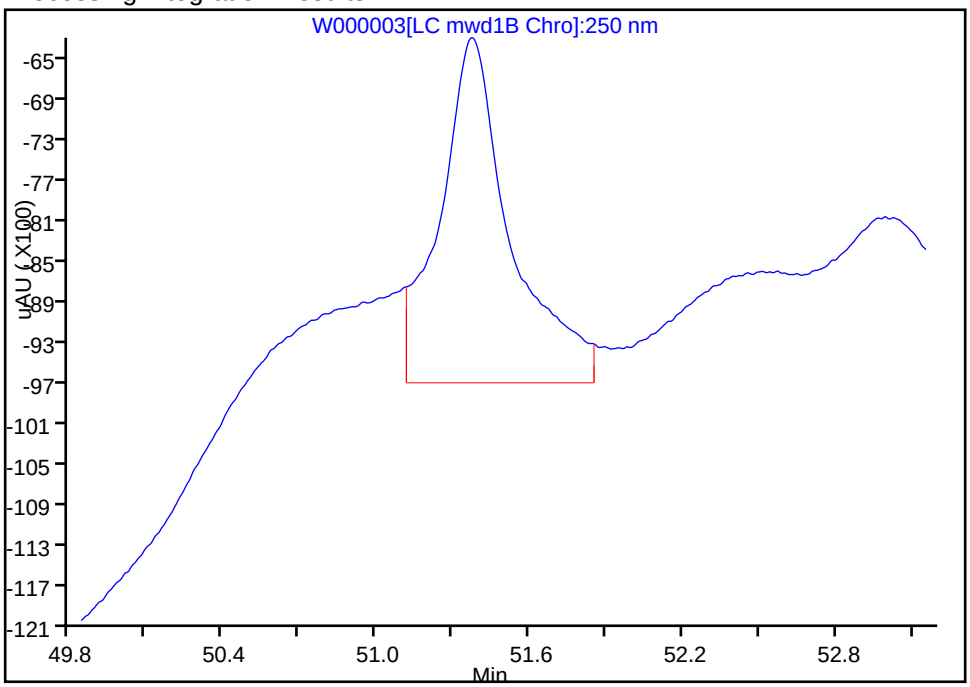
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000003.D
Injection Date: 23-Apr-2015 18:05:46 Instrument ID: LC9
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

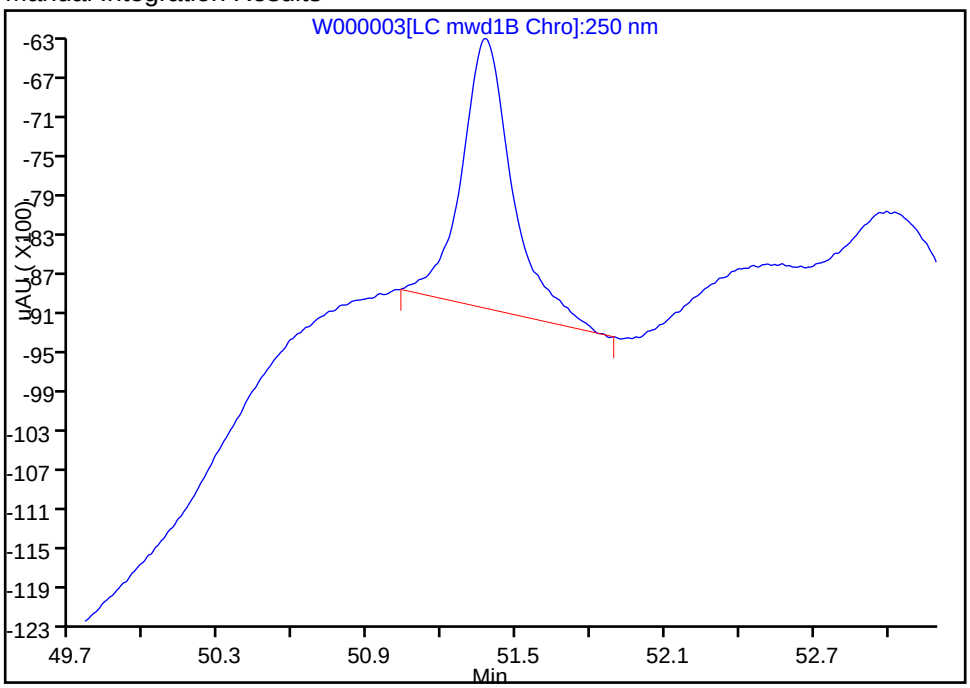
Processing Integration Results

RT: 51.37
Height: 3347
Amount: 24.832201
Amount Units: ng/ml



Manual Integration Results

RT: 51.37
Height: 2709
Amount: 20.098725
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:16:16
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71996/4 Calibration Date: 04/23/2015 19:12

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000004.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.26	45.03		93.3	100	-6.7	20.0
Ethylene glycol dinitrate	Lin2		48.40		94.1	100	-5.9	20.0
1,3-Dinitrobenzene	Ave	105.6	94.92		89.9	100	-10.1	20.0
1,3,5-Trinitrobenzene	Ave	85.12	75.50		88.7	100	-11.3	20.0
2-Nitrotoluene	Ave	64.74	58.99		91.1	100	-8.9	20.0
4-Nitrotoluene	Ave	64.74	58.99		91.1	100	-8.9	20.0
3-Nitrotoluene	Lin2		34.51		96.2	100	-3.8	20.0
3,5-Dinitroaniline	Ave	86.06	75.42		87.6	100	-12.4	20.0
RDX	Lin2		44.38		96.9	100	-3.1	20.0
2,4-Dinitrotoluene	Ave	91.69	83.42		91.0	100	-9.0	20.0
2,6-Dinitrotoluene	Ave	55.03	50.20		91.2	100	-8.8	20.0
2-Amino-4,6-dinitrotoluene	Ave	78.89	70.92		89.9	100	-10.1	20.0
4-Amino-2,6-dinitrotoluene	Ave	66.06	60.75		92.0	100	-8.0	20.0
2,4,6-Trinitrotoluene	Ave	77.95	72.51		93.0	100	-7.0	20.0
HMX	Ave	59.64	54.91		92.1	100	-7.9	20.0
Nitroglycerin	Ave	88.51	77.10		87.1	100	-12.9	20.0
Tetryl	Ave	116.9	108.7		93.0	100	-7.0	20.0
PETN	Ave	134.8	123.7		91.8	100	-8.2	20.0
3,4-Dinitrotoluene	Ave	47.37	41.79		88.2	100	-11.8	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71996/4 Calibration Date: 04/23/2015 19:12

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000004.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	21.49	21.24	21.74
Ethylene glycol dinitrate	22.63	22.38	22.88
1,3-Dinitrobenzene	24.31	24.06	24.56
1,3,5-Trinitrobenzene	26.72	26.47	26.97
2-Nitrotoluene	28.11	27.86	28.36
4-Nitrotoluene	28.11	27.86	28.36
3-Nitrotoluene	28.68	28.43	28.93
3,5-Dinitroaniline	30.17	29.92	30.42
RDX	30.80	30.55	31.05
2,4-Dinitrotoluene	31.56	31.31	31.81
2,6-Dinitrotoluene	32.46	32.21	32.71
2-Amino-4,6-dinitrotoluene	34.67	34.42	34.92
4-Amino-2,6-dinitrotoluene	35.10	34.85	35.35
2,4,6-Trinitrotoluene	38.66	38.41	38.91
HMX	40.80	40.55	41.05
Nitroglycerin	43.16	42.91	43.41
Tetryl	44.89	44.64	45.14
PETN	51.35	51.10	51.60
3,4-Dinitrotoluene	36.84	36.59	37.09

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000004.D
Lims ID: CCV 05
Client ID:
Sample Type: CCVRT
Inject. Date: 23-Apr-2015 19:12:28 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021276-004
Operator ID: YPH Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150423-21276.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 09:54:51 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 09:54:51

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
	3 Nitrobenzene						
1	21.492	21.492	0.000	4503H	100.0	93.3	
	4 Ethylene glycol dinitrate						
2	22.628	22.628	0.000	4840H	100.0	94.1	
	5 1,3-Dinitrobenzene						
1	24.312	24.312	0.000	9492H	100.0	89.9	
	7 1,3,5-Trinitrobenzene						
1	26.718	26.718	0.000	7550H	100.0	88.7	
	9 p-Nitrotoluene						
1	28.108	28.108	0.000	5899H	100.0	91.1	
	8 o-Nitrotoluene						
1	28.108	28.108	0.000	5899H	100.0	91.1	
	10 m-Nitrotoluene						
1	28.675	28.675	0.000	3451H	100.0	96.2	
	11 3,5-Dinitroaniline						
1	30.172	30.172	0.000	7542H	100.0	87.6	
	12 RDX						
1	30.798	30.798	0.000	4438H	100.0	96.9	
	13 2,4-Dinitrotoluene						
1	31.562	31.562	0.000	8342H	100.0	91.0	
	14 2,6-Dinitrotoluene						
1	32.458	32.458	0.000	5020H	100.0	91.2	
	15 2-Amino-4,6-dinitrotoluene						
1	34.665	34.665	0.000	7092H	100.0	89.9	
	16 4-Amino-2,6-dinitrotoluene						
1	35.102	35.102	0.000	6075H	100.0	92.0	
$	17 3,4-Dinitrotoluene						
1	36.838	36.838	0.000	4179H	100.0	88.2	
	18 2,4,6-Trinitrotoluene						
1	38.661	38.661	0.000	7251H	100.0	93.0	
	19 HMX						
1	40.798	40.798	0.000	5491H	100.0	92.1	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
20 Nitroglycerin							
2	43.161	43.161	0.000	7710H	100.0	87.1	
21 Tetryl							
1	44.888	44.888	0.000	10870H	100.0	93.0	
22 PETN							
2	51.351	51.351	0.000	12370H	100.0	91.8	

Reagents:

hp8330L5_00035 Amount Added: 1.00 Units: mL

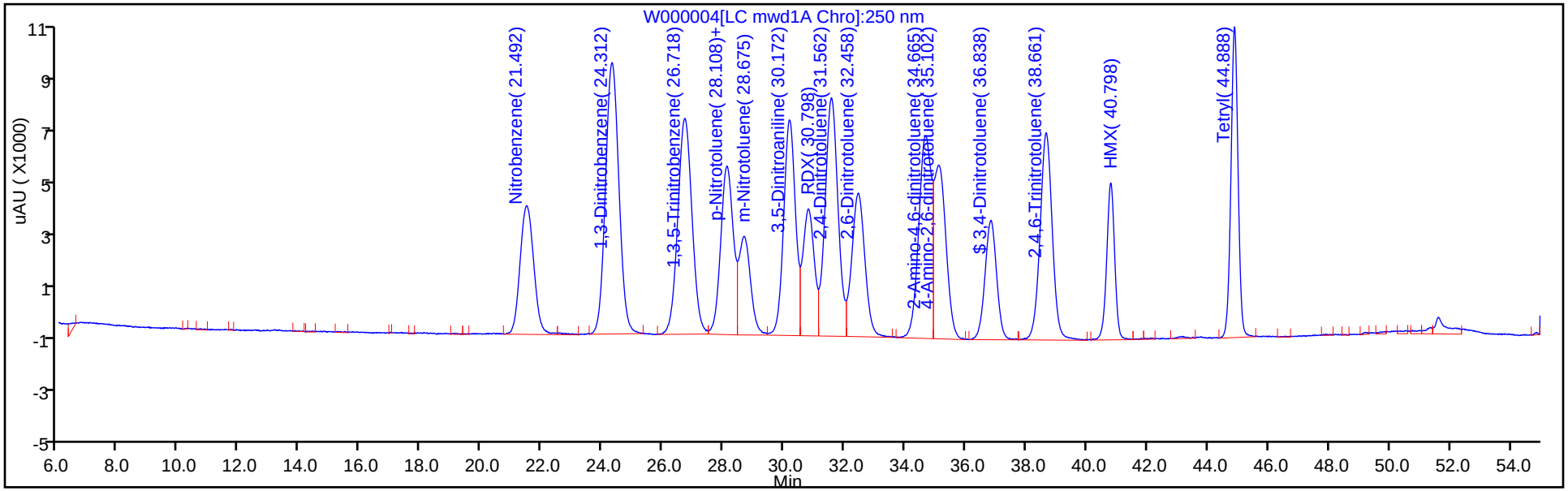
Report Date: 24-Apr-2015 09:54:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

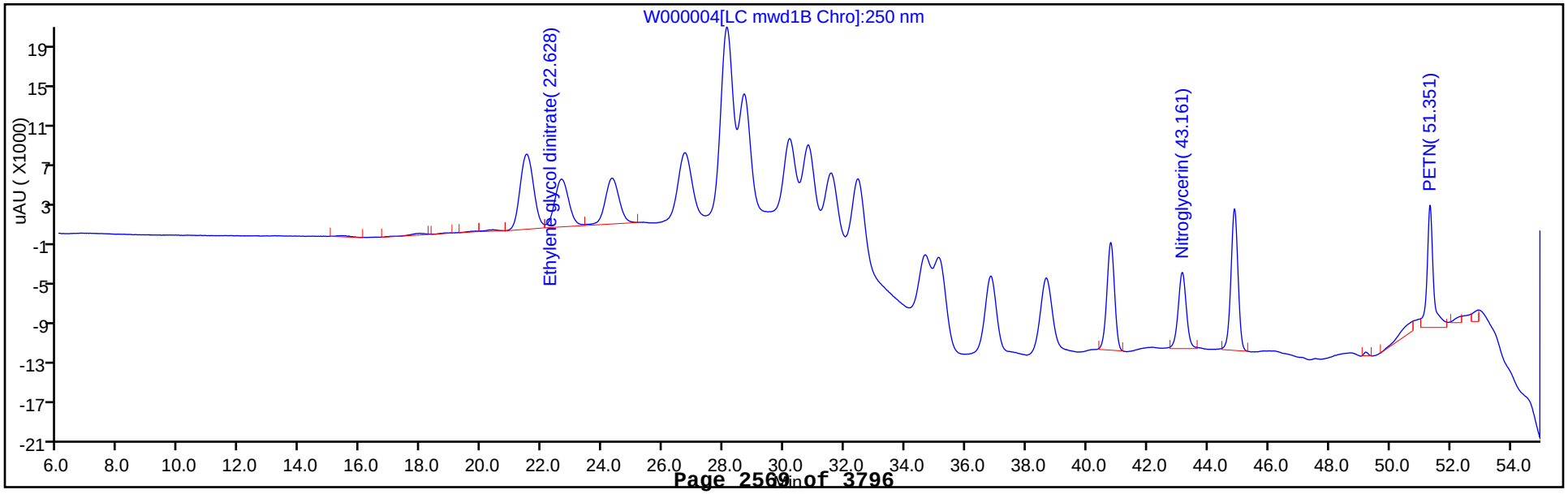
Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000004.D

Injection Date:	23-Apr-2015 19:12:28	Instrument ID:	LC9	Operator ID:	YPH
Lims ID:	CCV 05			Worklist Smp#:	4
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71996/12 Calibration Date: 04/24/2015 04:05

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000012.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.26	46.08		47.7	50.0	-4.5	20.0
Ethylene glycol dinitrate	Lin2		48.42		44.7	50.0	-10.6	20.0
1,3-Dinitrobenzene	Ave	105.6	97.46		46.1	50.0	-7.7	20.0
1,3,5-Trinitrobenzene	Ave	85.12	77.94		45.8	50.0	-8.4	20.0
2-Nitrotoluene	Ave	64.74	61.26		47.3	50.0	-5.4	20.0
4-Nitrotoluene	Ave	64.74	61.26		47.3	50.0	-5.4	20.0
3-Nitrotoluene	Lin2		35.80		48.8	50.0	-2.4	20.0
3,5-Dinitroaniline	Ave	86.06	77.74		45.2	50.0	-9.7	20.0
RDX	Lin2		46.48		49.3	50.0	-1.3	20.0
2,4-Dinitrotoluene	Ave	91.69	86.86		47.4	50.0	-5.3	20.0
2,6-Dinitrotoluene	Ave	55.03	51.76		47.0	50.0	-5.9	20.0
2-Amino-4,6-dinitrotoluene	Ave	78.89	72.56		46.0	50.0	-8.0	20.0
4-Amino-2,6-dinitrotoluene	Ave	66.06	62.12		47.0	50.0	-6.0	20.0
2,4,6-Trinitrotoluene	Ave	77.95	71.36		45.8	50.0	-8.5	20.0
HMX	Ave	59.64	55.66		46.7	50.0	-6.7	20.0
Nitroglycerin	Ave	88.51	76.90		43.4	50.0	-13.1	20.0
Tetryl	Ave	116.9	111.3		47.6	50.0	-4.8	20.0
PETN	Ave	134.8	116.4		43.2	50.0	-13.6	20.0
3,4-Dinitrotoluene	Ave	47.37	42.12		44.5	50.0	-11.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCV 320-71996/12 Calibration Date: 04/24/2015 04:05

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	21.36	21.11	21.61
Ethylene glycol dinitrate	22.52	22.27	22.77
1,3-Dinitrobenzene	24.15	23.90	24.40
1,3,5-Trinitrobenzene	26.57	26.32	26.82
2-Nitrotoluene	27.91	27.66	28.16
4-Nitrotoluene	27.91	27.66	28.16
3-Nitrotoluene	28.48	28.23	28.73
3,5-Dinitroaniline	29.97	29.72	30.22
RDX	30.59	30.34	30.84
2,4-Dinitrotoluene	31.32	31.07	31.57
2,6-Dinitrotoluene	32.18	32.21	32.71
2-Amino-4,6-dinitrotoluene	34.38	34.13	34.63
4-Amino-2,6-dinitrotoluene	34.81	34.85	35.35
2,4,6-Trinitrotoluene	38.41	38.16	38.66
HMX	40.61	40.36	40.86
Nitroglycerin	42.99	42.74	43.24
Tetryl	44.74	44.49	44.99
PETN	51.23	50.98	51.48
3,4-Dinitrotoluene	36.56	36.59	37.09

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000012.D
Lims ID: CCV 04
Client ID:
Sample Type: CCVRT
Inject. Date: 24-Apr-2015 04:05:55 ALS Bottle#: 4 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021276-012
Operator ID: YPH Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150423-21276.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 09:56:22 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 09:56:22

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
	3 Nitrobenzene						
1	21.358	21.358	0.000	2304H	50.0	47.7	
	4 Ethylene glycol dinitrate						
2	22.524	22.524	0.000	2421H	50.0	44.7	
	5 1,3-Dinitrobenzene						
1	24.154	24.154	0.000	4873H	50.0	46.1	
	7 1,3,5-Trinitrobenzene						
1	26.568	26.568	0.000	3897H	50.0	45.8	
	9 p-Nitrotoluene						
1	27.914	27.914	0.000	3063H	50.0	47.3	
	8 o-Nitrotoluene						
1	27.914	27.914	0.000	3063H	50.0	47.3	
	10 m-Nitrotoluene						
1	28.478	28.478	0.000	1790H	50.0	48.8	
	11 3,5-Dinitroaniline						
1	29.968	29.968	0.000	3887H	50.0	45.2	
	12 RDX						
1	30.594	30.594	0.000	2324H	50.0	49.3	
	13 2,4-Dinitrotoluene						
1	31.318	31.318	0.000	4343H	50.0	47.4	
	14 2,6-Dinitrotoluene						
1	32.184	32.458	-0.274	2588H	50.0	47.0	
	15 2-Amino-4,6-dinitrotoluene						
1	34.384	34.384	0.000	3628H	50.0	46.0	
	16 4-Amino-2,6-dinitrotoluene						
1	34.814	35.102	-0.288	3106H	50.0	47.0	
$	17 3,4-Dinitrotoluene						
1	36.558	36.838	-0.280	2106H	50.0	44.5	
	18 2,4,6-Trinitrotoluene						
1	38.414	38.414	0.000	3568H	50.0	45.8	
	19 HMX						
1	40.614	40.614	0.000	2783H	50.0	46.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
20 Nitroglycerin							
2	42.991	42.991	0.000	3845H	50.0	43.4	
21 Tetryl							
1	44.741	44.741	0.000	5564H	50.0	47.6	
22 PETN							M
2	51.234	51.234	0.000	5821H	50.0	43.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L4_00026 Amount Added: 1.00 Units: mL

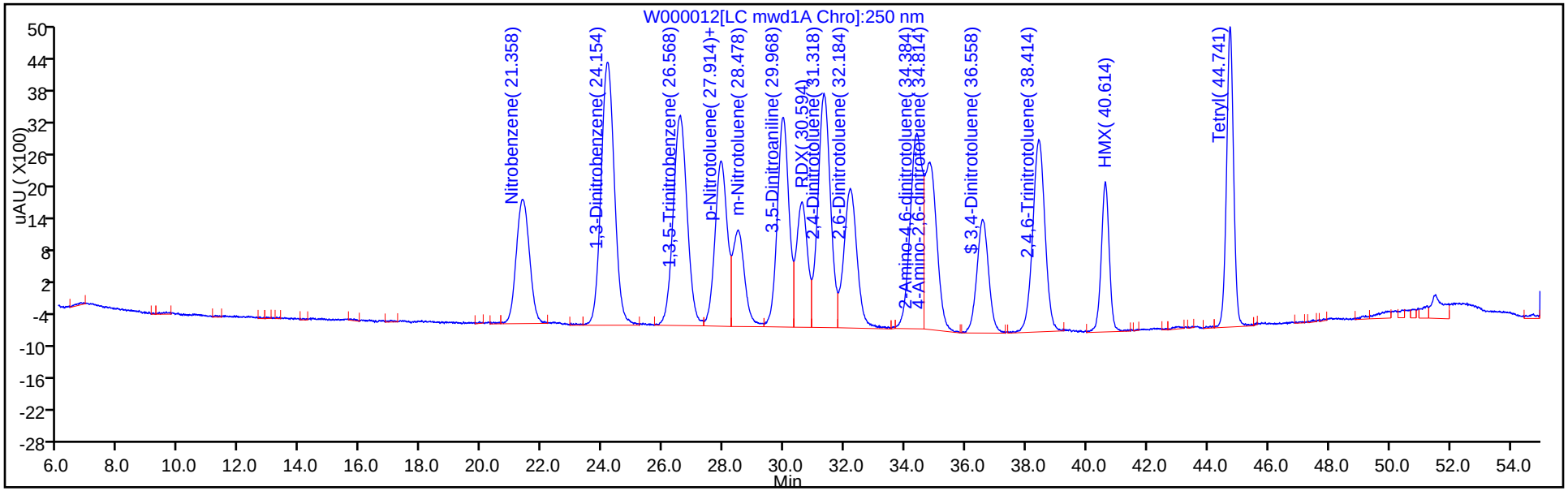
Report Date: 24-Apr-2015 09:56:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

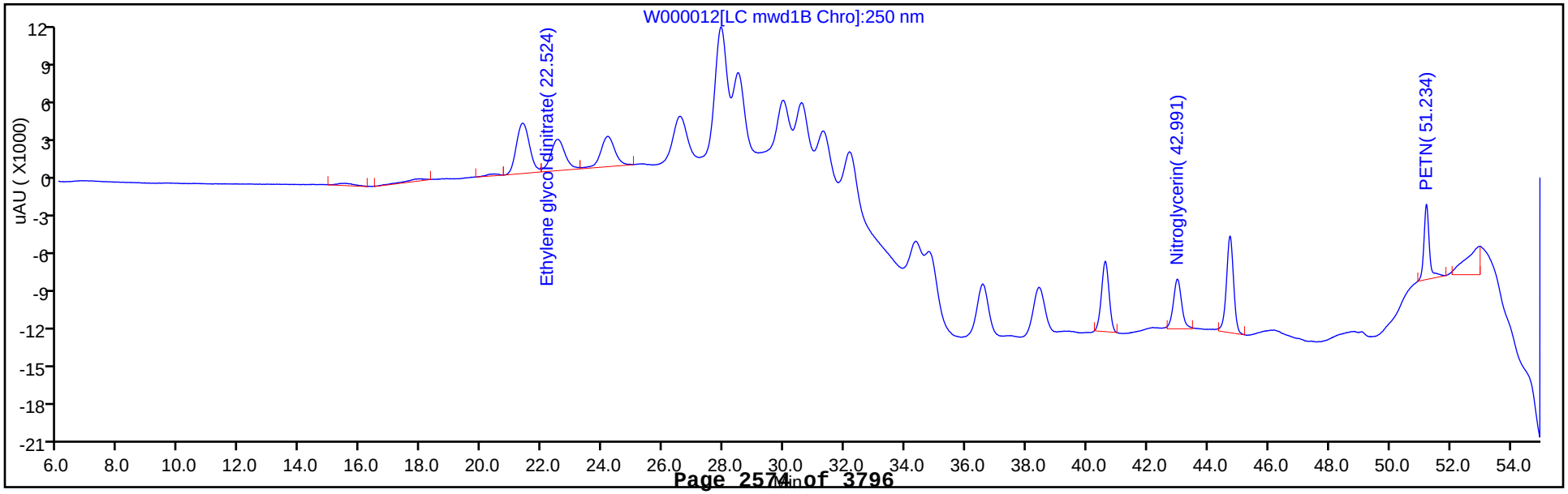
Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000012.D

Injection Date:	24-Apr-2015 04:05:55	Instrument ID:	LC9	Operator ID:	YPH
Lims ID:	CCV 04			Worklist Smp#:	12
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

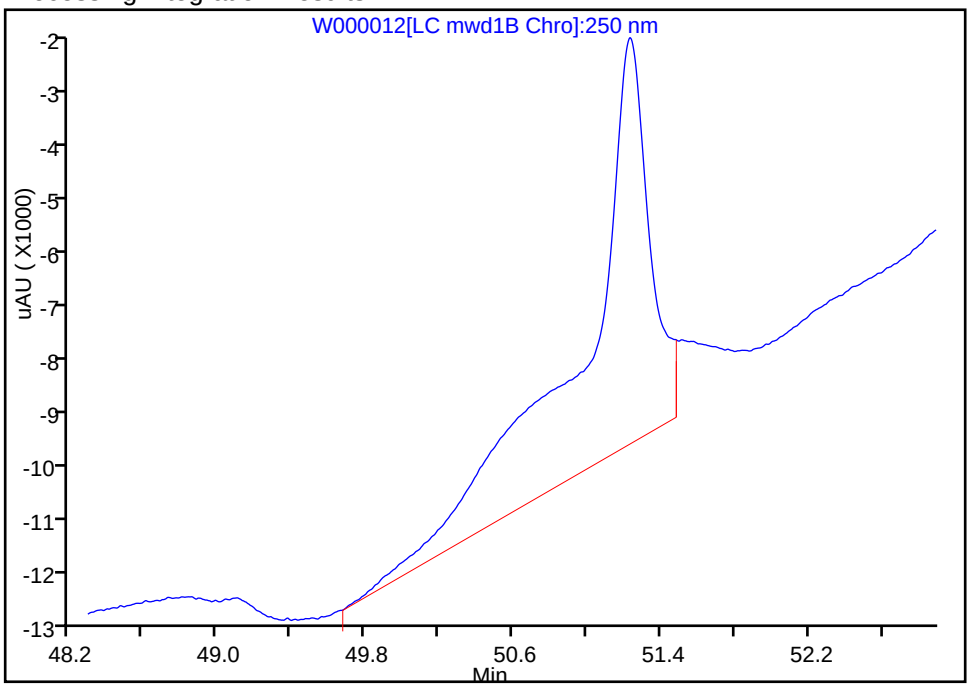
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000012.D
Injection Date: 24-Apr-2015 04:05:55 Instrument ID: LC9
Lims ID: CCV 04
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1B, 358 nm

22 PETN, CAS: 78-11-5

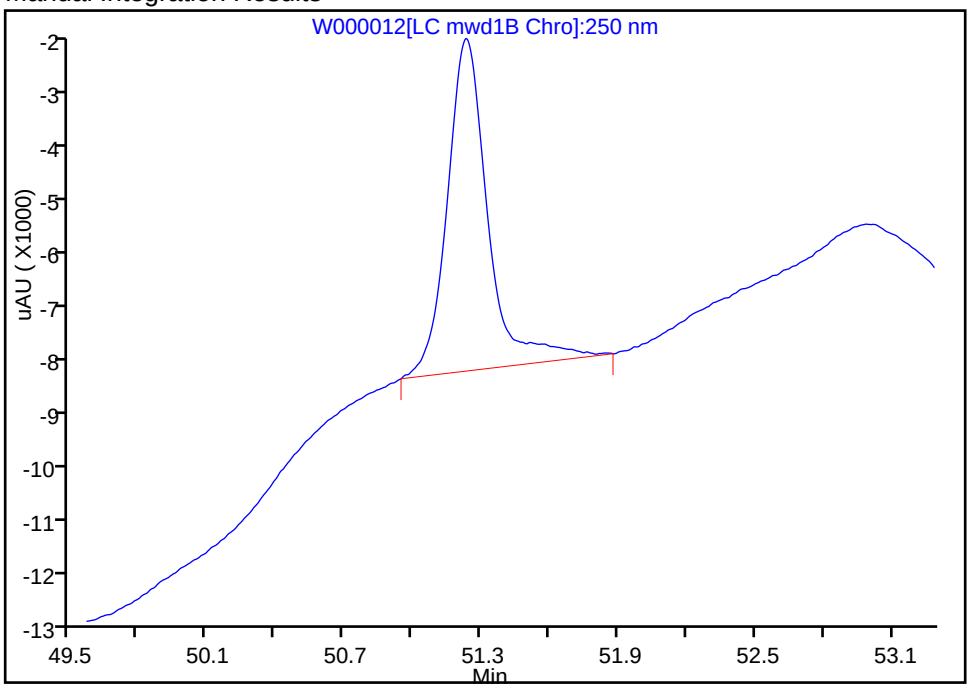
Processing Integration Results

RT: 51.23
Height: 7155
Amount: 53.084673
Amount Units: ng/ml



Manual Integration Results

RT: 51.23
Height: 5821
Amount: 43.187405
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 09:56:22
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71996/13 Calibration Date: 04/24/2015 05:12

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000013.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.26	49.40		5.12	5.00	2.4	30.0
Ethylene glycol dinitrate	Lin2		47.80		14.8	20.0	-26.1	30.0
1,3-Dinitrobenzene	Ave	105.6	103.6		4.91	5.00	-1.9	30.0
1,3,5-Trinitrobenzene	Ave	85.12	81.80		4.80	5.00	-3.9	30.0
2-Nitrotoluene	Ave	64.74	66.80		5.16	5.00	3.2	30.0
4-Nitrotoluene	Ave	64.74	66.80		5.16	5.00	3.2	30.0
3-Nitrotoluene	Lin2		41.20		3.58	5.00	-28.3	30.0
3,5-Dinitroaniline	Ave	86.06	90.80		5.28	5.00	5.5	30.0
RDX	Lin2		61.80		3.96	5.00	-20.8	30.0
2,4-Dinitrotoluene	Ave	91.69	99.00		5.40	5.00	8.0	30.0
2,6-Dinitrotoluene	Ave	55.03	59.80		5.43	5.00	8.7	30.0
2-Amino-4,6-dinitrotoluene	Ave	78.89	80.40		5.10	5.00	1.9	30.0
4-Amino-2,6-dinitrotoluene	Ave	66.06	70.00		5.30	5.00	6.0	30.0
2,4,6-Trinitrotoluene	Ave	77.95	74.20		4.76	5.00	-4.8	30.0
HMX	Ave	59.64	62.60		5.25	5.00	5.0	30.0
Nitroglycerin	Ave	88.51	82.85		18.7	20.0	-6.4	30.0
Tetryl	Ave	116.9	115.8		4.95	5.00	-1.0	30.0
PETN	Ave	134.8	128.6		19.1	20.0	-4.6	30.0
3,4-Dinitrotoluene	Ave	47.37	55.40		5.85	5.00	17.0	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Lab Sample ID: CCVL 320-71996/13 Calibration Date: 04/24/2015 05:12

Instrument ID: LC9 Calib Start Date: 01/23/2015 14:34

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 01/23/2015 21:15

Lab File ID: W000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	21.31	21.06	21.56
Ethylene glycol dinitrate	22.53	22.28	22.78
1,3-Dinitrobenzene	24.11	23.86	24.36
1,3,5-Trinitrobenzene	26.50	26.25	26.75
2-Nitrotoluene	27.89	27.64	28.14
4-Nitrotoluene	27.89	27.64	28.14
3-Nitrotoluene	28.48	28.23	28.73
3,5-Dinitroaniline	29.95	29.70	30.20
RDX	30.62	30.37	30.87
2,4-Dinitrotoluene	31.29	31.04	31.54
2,6-Dinitrotoluene	32.15	31.93	32.43
2-Amino-4,6-dinitrotoluene	34.39	34.13	34.63
4-Amino-2,6-dinitrotoluene	34.84	34.56	35.06
2,4,6-Trinitrotoluene	38.42	38.17	38.67
HMX	40.62	40.37	40.87
Nitroglycerin	42.99	42.74	43.24
Tetryl	44.74	44.49	44.99
PETN	51.25	51.00	51.50
3,4-Dinitrotoluene	36.59	36.31	36.81

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000013.D
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 24-Apr-2015 05:12:33 ALS Bottle#: 2 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021276-013
Operator ID: YPH Instrument ID: LC9
Sublist: chrom-LC9_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC9\20150423-21276.b\LC9_Conf_8330.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 17:18:07 Calib Date: 23-Jan-2015 21:15:02
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC9\20150123-18933.b\W000010.D

Column 1 : Zorbax Cyano CN (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 17:18:07

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
3 Nitrobenzene							
1	21.308	21.308	0.000	247H	5.00	5.12	
4 Ethylene glycol dinitrate							
2	22.528	22.528	0.000	956H	20.0	14.8	
5 1,3-Dinitrobenzene							
1	24.111	24.111	0.000	518H	5.00	4.91	
7 1,3,5-Trinitrobenzene							
1	26.501	26.501	0.000	409H	5.00	4.80	
9 p-Nitrotoluene							
1	27.885	27.885	0.000	334H	5.00	5.16	
8 o-Nitrotoluene							
1	27.885	27.885	0.000	334H	5.00	5.16	
10 m-Nitrotoluene							
1	28.481	28.481	0.000	206H	5.00	3.58	
11 3,5-Dinitroaniline							
1	29.948	29.948	0.000	454H	5.00	5.28	
12 RDX							
1	30.618	30.618	0.000	309H	5.00	3.96	
13 2,4-Dinitrotoluene							
1	31.285	31.285	0.000	495H	5.00	5.40	
14 2,6-Dinitrotoluene							
1	32.148	32.184	-0.036	299H	5.00	5.43	
15 2-Amino-4,6-dinitrotoluene							M
1	34.391	34.384	0.007	402H	5.00	5.10	M
16 4-Amino-2,6-dinitrotoluene							M
1	34.835	34.814	0.021	350H	5.00	5.30	M
$ 17 3,4-Dinitrotoluene							
1	36.588	36.558	0.030	277H	5.00	5.85	
18 2,4,6-Trinitrotoluene							
1	38.421	38.421	0.000	371H	5.00	4.76	
19 HMX							
1	40.621	40.621	0.000	313H	5.00	5.25	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
20 Nitroglycerin							
2	42.991	42.991	0.000	1657H	20.0	18.7	
21 Tetryl							
1	44.738	44.738	0.000	579H	5.00	4.95	
22 PETN							M
2	51.251	51.251	0.000	2572H	20.0	19.1	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330icl_00025 Amount Added: 1.00 Units: mL

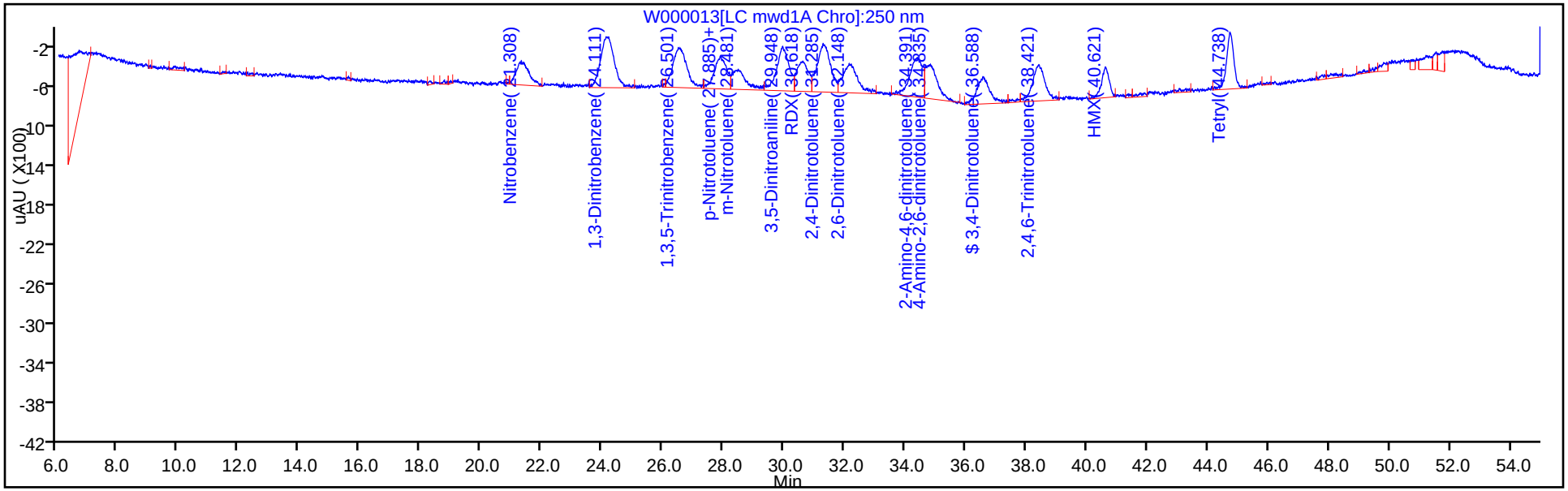
Report Date: 24-Apr-2015 17:18:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

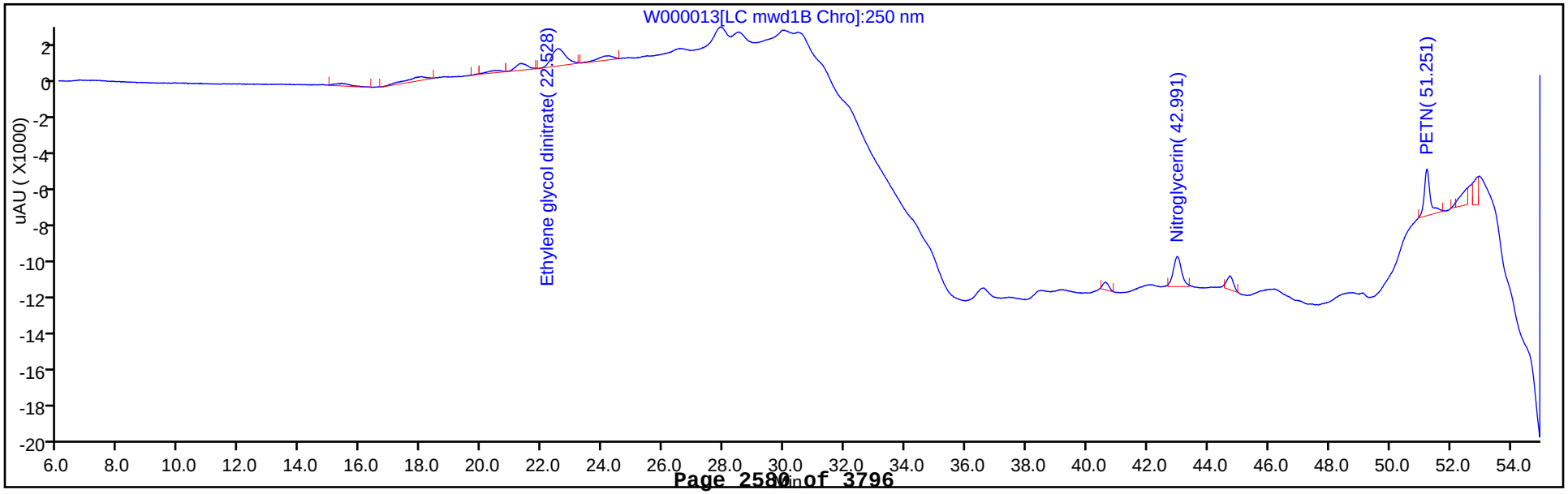
Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000013.D

Injection Date:	24-Apr-2015 05:12:33	Instrument ID:	LC9	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	13
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		

Column: Zorbax Cyano CN (4.60 mm)



Column: Zorbax Cyano CN (4.60 mm)



Manual Integration/User Assign Peak Report

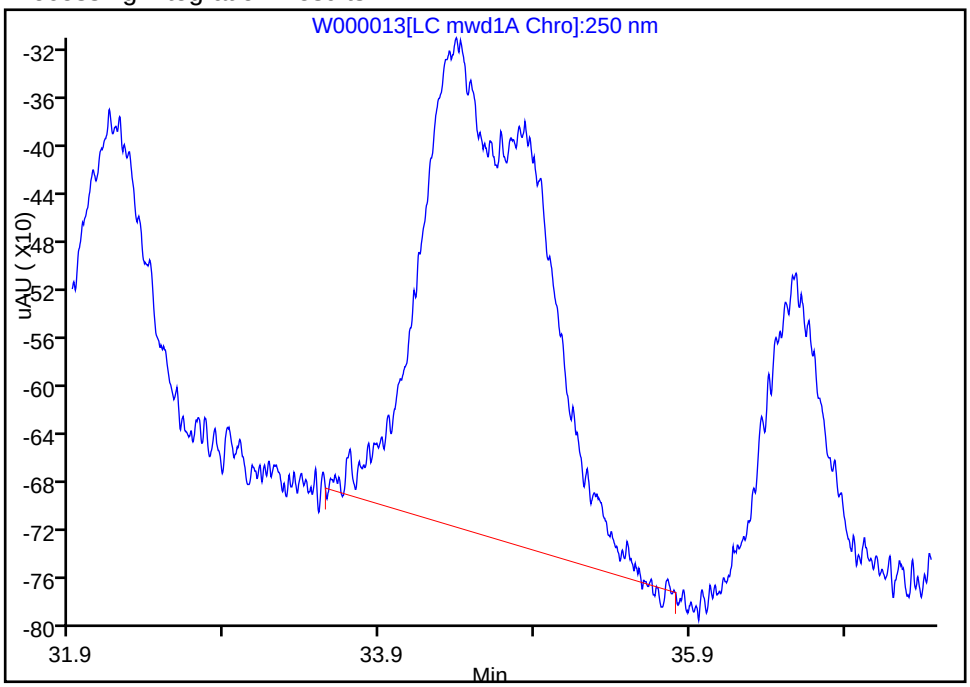
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC9\20150423-21276.b\W000013.D
Injection Date: 24-Apr-2015 05:12:33 Instrument ID: LC9
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: LC9_Conf_8330 Limit Group: LC 8330B ICAL
Column: Zorbax Cyano CN (4.60 mm) Detector LC mwd1A, 250 nm

15 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

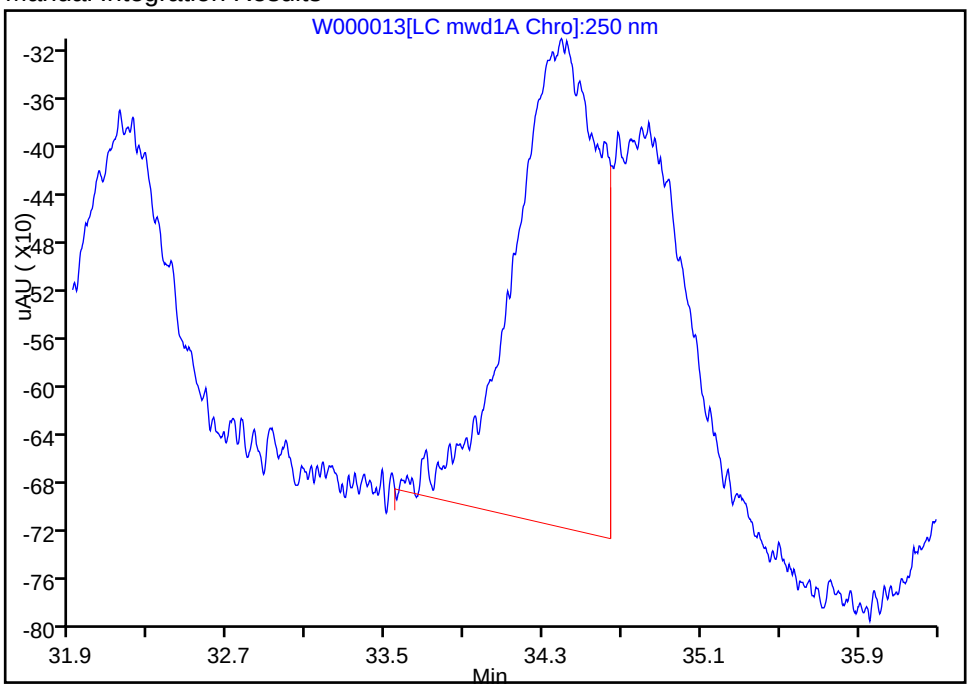
Processing Integration Results

RT: 34.39
Height: 403
Amount: 5.108314
Amount Units: ng/ml



Manual Integration Results

RT: 34.39
Height: 402
Amount: 5.095638
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:18:07
Audit Action: Split an Integrated Peak
Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

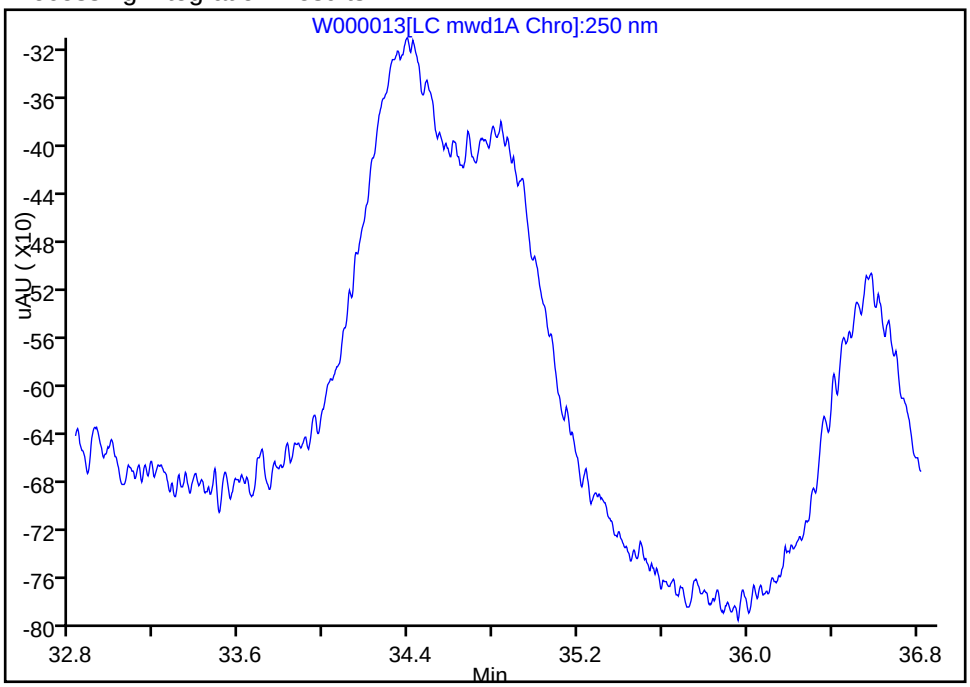
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC9\20150423-21276.b\W000013.D				
Injection Date:	24-Apr-2015 05:12:33	Instrument ID:	LC9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	13
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		
Column:	Zorbax Cyano CN (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

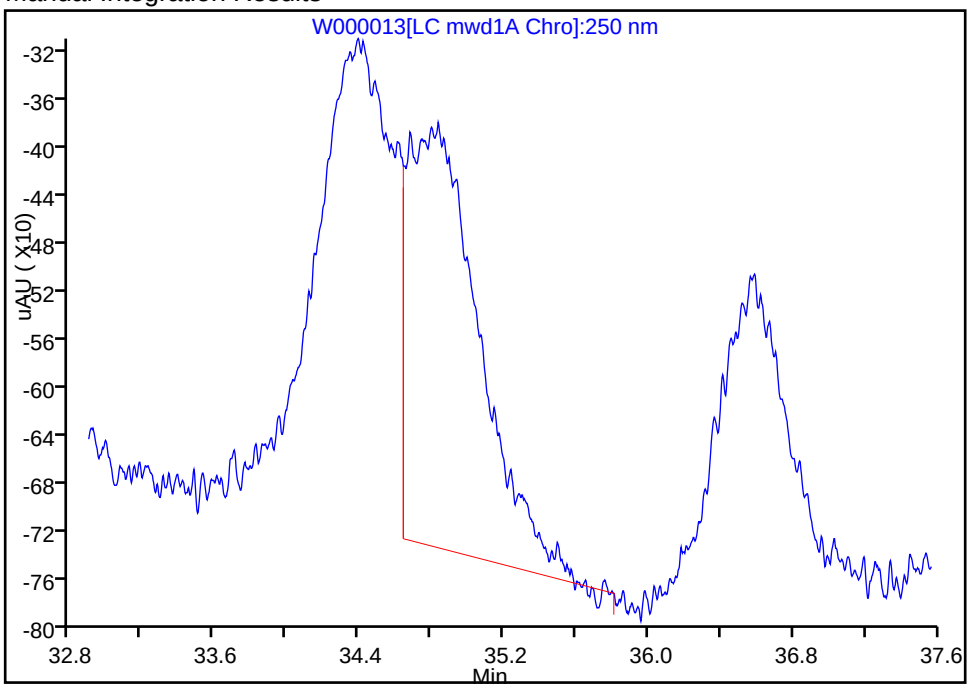
Not Detected
Expected RT: 34.81

Processing Integration Results



Manual Integration Results

RT: 34.83
Height: 350
Amount: 5.298030
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:18:07
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

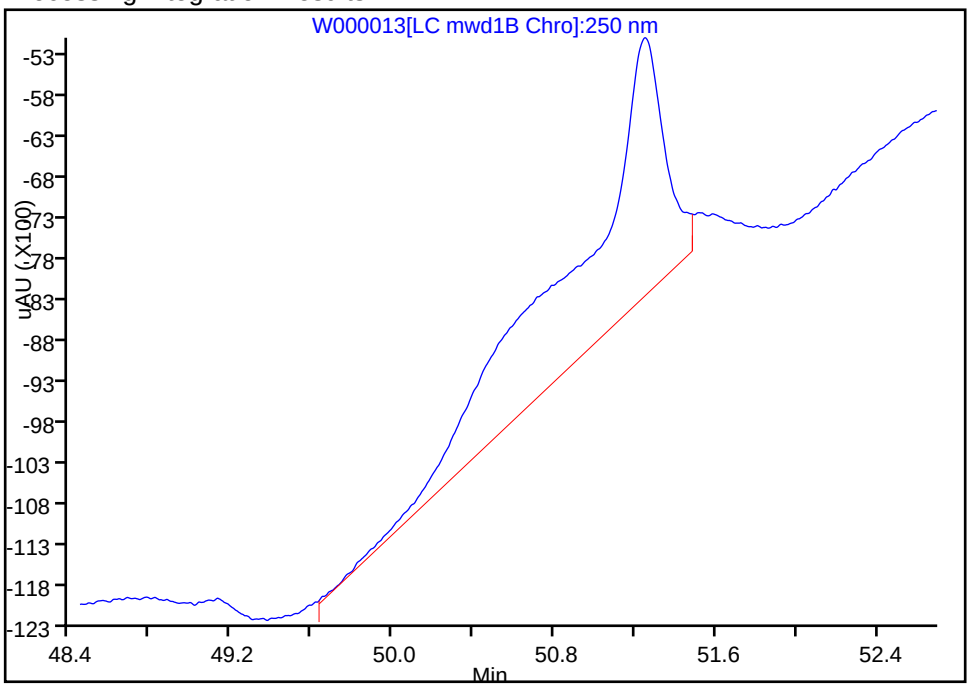
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC9\20150423-21276.b\W000013.D				
Injection Date:	24-Apr-2015 05:12:33	Instrument ID:	LC9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	13
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	LC9_Conf_8330	Limit Group:	LC 8330B ICAL		
Column:	Zorbax Cyano CN (4.60 mm)	Detector	LC mwd1B, 358 nm		

22 PETN, CAS: 78-11-5

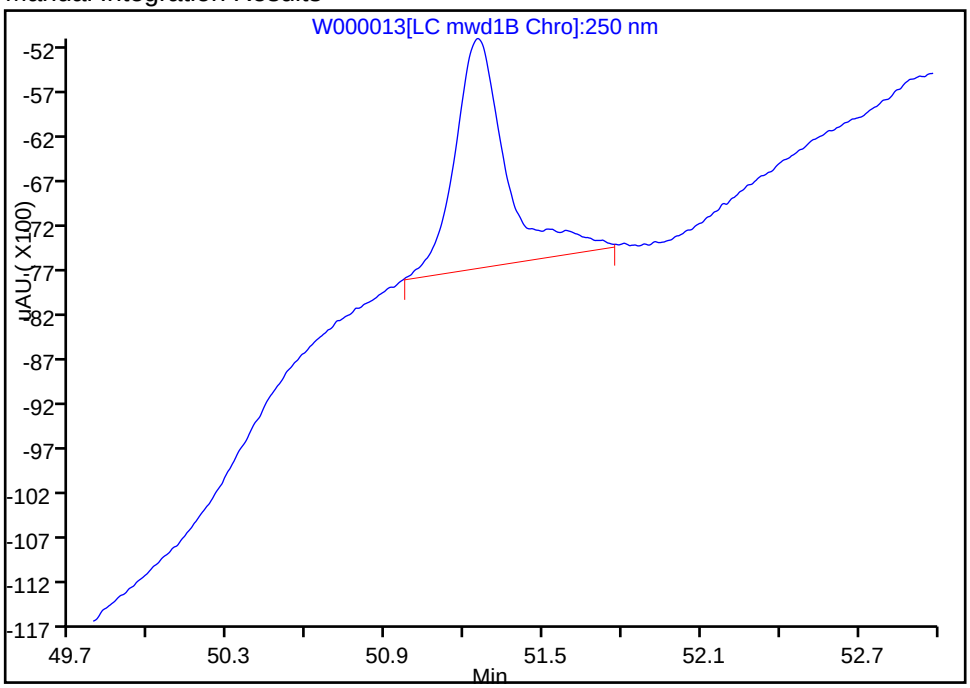
Processing Integration Results

RT: 51.25
Height: 3142
Amount: 23.311257
Amount Units: ng/ml



Manual Integration Results

RT: 51.25
Height: 2572
Amount: 19.082289
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 17:18:07
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-70962/1-A

Matrix: Water | Lab File ID: O000010.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 8330-Prep | Date Extracted: 04/13/2015 09:25

Sample wt/vol: 1000(mL) | Date Analyzed: 04/15/2015 17:15

Con. Extract Vol.: 20(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 71173 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.10	0.050	0.031
99-65-0	1,3-Dinitrobenzene	0.10	U	0.10	0.10	0.050
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.10	0.10	0.050
121-14-2	2,4-Dinitrotoluene	0.10	U	0.10	0.10	0.050
606-20-2	2,6-Dinitrotoluene	0.10	U	0.10	0.10	0.050
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.20	0.10	0.015
88-72-2	2-Nitrotoluene	0.10	U	0.50	0.10	0.088
99-08-1	3-Nitrotoluene	0.10	U	0.50	0.10	0.057
99-99-0	4-Nitrotoluene	0.10	U	0.50	0.10	0.088
19406-51-0	4-Amino-2,6-dinitrotoluene	0.10	U	0.10	0.10	0.050
2691-41-0	HMX	0.050	U	0.10	0.050	0.036
121-82-4	RDX	0.050	U	0.10	0.050	0.036
98-95-3	Nitrobenzene	0.10	U	0.10	0.10	0.050
479-45-8	Tetryl	0.10	U	0.10	0.10	0.050
55-63-0	Nitroglycerin	0.50	U	0.65	0.50	0.33
78-11-5	PETN	0.50	U	0.65	0.50	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	92		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20150415-21039.b\O000010.D				
Lims ID:	MB 320-70962/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	15-Apr-2015 17:15:27	ALS Bottle#:	16	Worklist Smp#:	10
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021039-010				
Operator ID:	YPH	Instrument ID:	LC10		
Method:	\\SACChrom\ChromData\LC10\20150415-21039.b\8330_LC10.m				
Limit Group:	LC 8330B ICAL				
Last Update:	16-Apr-2015 11:00:56	Calib Date:	11-Mar-2015 20:09:31		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D				
Column 1 :	Synergi Hydro-RP C18 (4.60 mm)		Det: LC mwd1A, 250 nm		
Process Host:	XAWRK003				

First Level Reviewer: huangyun Date: 16-Apr-2015 11:01:54

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
7 Nitroglycerin							
2	14.789	14.684	0.105	848H		11.1	
$ 30 3,4-Dinitrotoluene							
1	16.493	16.474	0.019	7747H	125.0	115.6	
2	16.493	16.474	0.019	15260H	125.0	113.7	

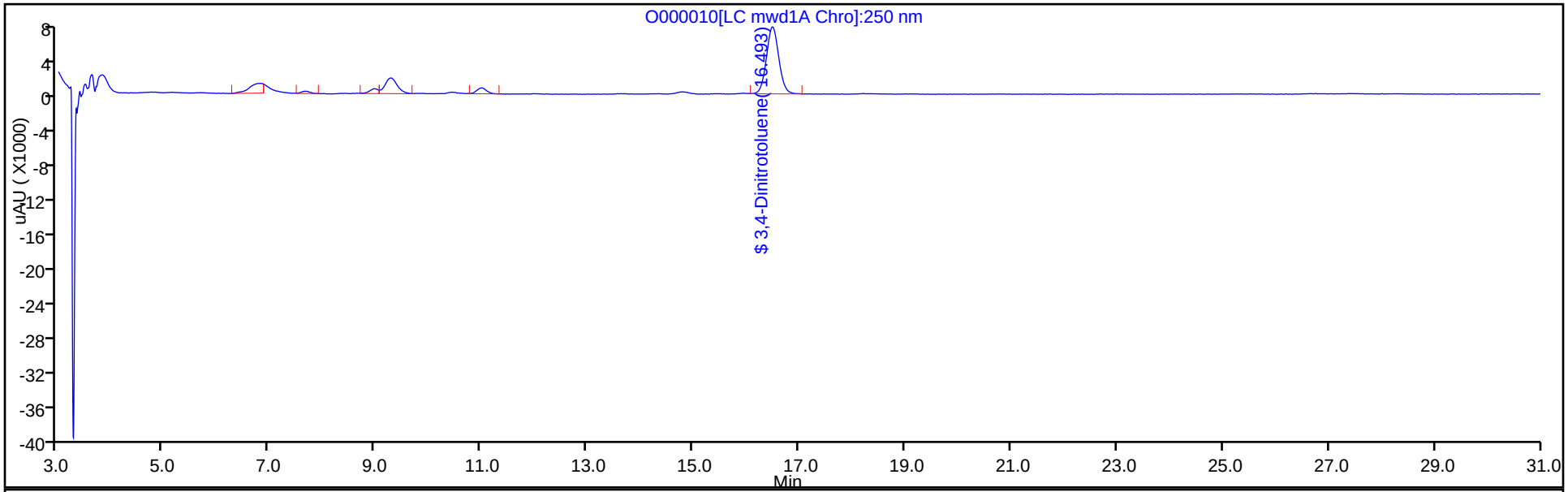
Report Date: 16-Apr-2015 11:01:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

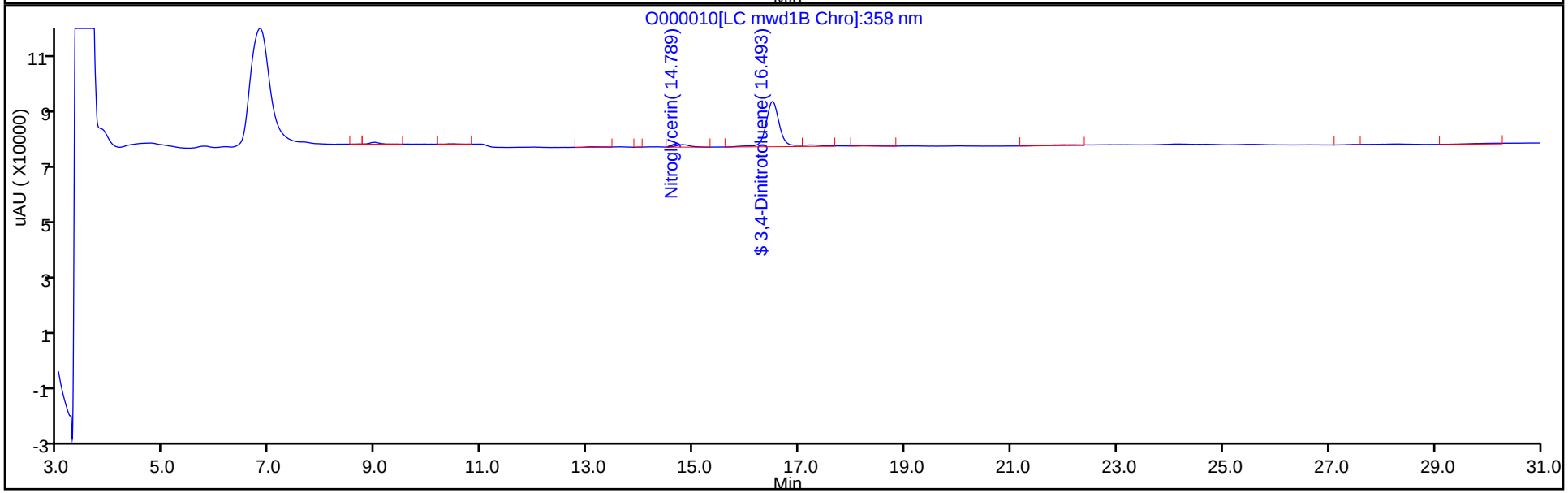
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000010.D

Injection Date:	15-Apr-2015 17:15:27	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	MB 320-70962/1-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-49236-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-70962/2-A

Matrix: Water | Lab File ID: O000011.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 8330-Prep | Date Extracted: 04/13/2015 09:25

Sample wt/vol: 1000(mL) | Date Analyzed: 04/15/2015 17:59

Con. Extract Vol.: 20(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 71173 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.06		0.10	0.050	0.031
99-65-0	1,3-Dinitrobenzene	1.07		0.10	0.10	0.050
118-96-7	2,4,6-Trinitrotoluene	1.03		0.10	0.10	0.050
121-14-2	2,4-Dinitrotoluene	1.02		0.10	0.10	0.050
606-20-2	2,6-Dinitrotoluene	1.02		0.10	0.10	0.050
35572-78-2	2-Amino-4,6-dinitrotoluene	1.03		0.20	0.10	0.015
88-72-2	2-Nitrotoluene	0.985		0.50	0.10	0.088
99-08-1	3-Nitrotoluene	0.991		0.50	0.10	0.057
99-99-0	4-Nitrotoluene	0.998		0.50	0.10	0.088
19406-51-0	4-Amino-2,6-dinitrotoluene	0.990		0.10	0.10	0.050
2691-41-0	HMX	1.05		0.10	0.050	0.036
121-82-4	RDX	1.09		0.10	0.050	0.036
98-95-3	Nitrobenzene	1.05		0.10	0.10	0.050
479-45-8	Tetryl	1.03		0.10	0.10	0.050
55-63-0	Nitroglycerin	5.38		0.65	0.50	0.33
78-11-5	PETN	4.90		0.65	0.50	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	95		79-111

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000011.D
Lims ID: LCS 320-70962/2-A
Client ID:
Sample Type: LCS
Inject. Date: 15-Apr-2015 17:59:04 ALS Bottle#: 17 Worklist Smp#: 11
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021039-011
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150415-21039.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 16-Apr-2015 11:02:51 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK003

First Level Reviewer: huangyun Date: 16-Apr-2015 11:02:51

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.154	5.144	0.010	7758H	50.0	52.7	
19 RDX							
1	7.404	7.384	0.020	5525H	50.0	54.5	
27 1,3,5-Trinitrobenzene							
1	9.604	9.591	0.013	10283H	50.0	52.9	
24 1,3-Dinitrobenzene							
1	12.177	12.164	0.013	9960H	50.0	53.3	
9 3,5-Dinitroaniline							
1	12.887	12.874	0.013	6305H	50.0	51.3	
20 Tetryl							
1	13.390	13.388	0.002	5703H	50.0	51.4	
5 Nitrobenzene							
1	13.894	13.878	0.016	4433H	50.0	52.5	
7 Nitroglycerin							
2	14.690	14.684	0.006	20622H	250.0	269.1	
25 2,4,6-Trinitrotoluene							
1	15.380	15.381	-0.001	5863H	50.0	51.6	
26 4-Amino-2,6-dinitrotoluene							
1	16.017	16.021	-0.004	4532H	50.0	49.5	
$ 30 3,4-Dinitrotoluene							
1	16.467	16.474	-0.007	7942H	125.0	118.5	
2	16.464	16.474	-0.010	15180H	125.0	113.1	
6 2-Amino-4,6-dinitrotoluene							
1	16.870	16.878	-0.008	5235H	50.0	51.3	
12 2,6-Dinitrotoluene							
1	18.437	18.448	-0.011	3683H	50.0	51.2	
23 2,4-Dinitrotoluene							
1	19.000	19.011	-0.011	6033H	50.0	51.0	
16 o-Nitrotoluene							
1	22.340	22.351	-0.011	2581H	50.0	49.2	
15 p-Nitrotoluene							
1	23.970	23.974	-0.004	3140H	50.0	49.0	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
8 m-Nitrotoluene							
1	25.717	25.714	0.003	2934H	50.0	49.5	
21 PETN							
2	28.144	28.134	0.010	10898H	250.0	245.2	

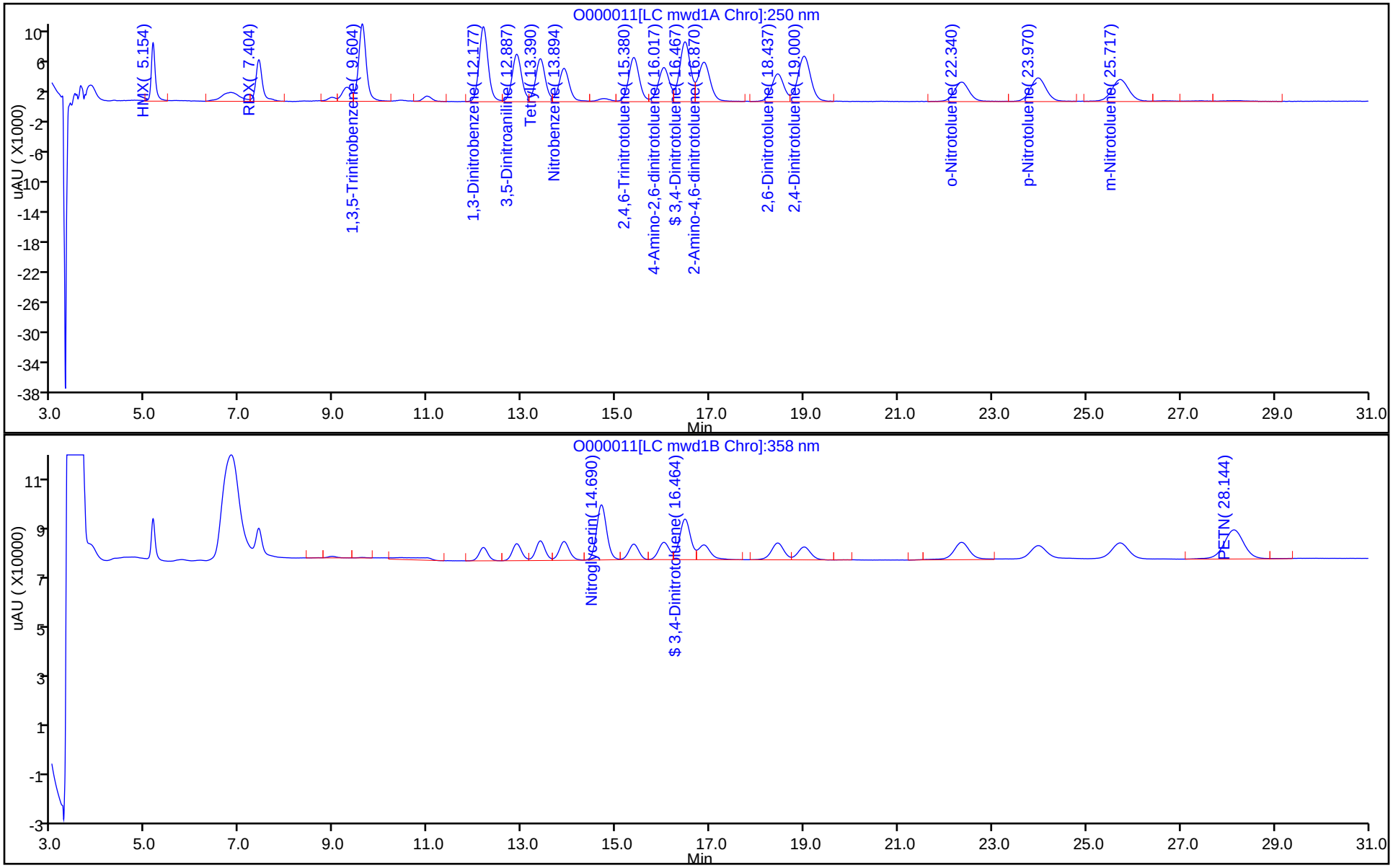
Report Date: 16-Apr-2015 11:02:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150415-21039.b\O000011.D

Injection Date:	15-Apr-2015 17:59:04	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	LCS 320-70962/2-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC9 Start Date: 01/23/2015 13:28

Analysis Batch Number: 63675 End Date: 01/24/2015 00:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/23/2015 13:28	1		Zorbax CN 4.6(mm)
STD1 320-63675/4 IC		01/23/2015 14:34	1	W000004.D	Zorbax CN 4.6(mm)
STD2 320-63675/5 IC		01/23/2015 15:41	1	W000005.D	Zorbax CN 4.6(mm)
STD3 320-63675/6 IC		01/23/2015 16:48	1	W000006.D	Zorbax CN 4.6(mm)
STD4 320-63675/7 IC		01/23/2015 17:54	1	W000007.D	Zorbax CN 4.6(mm)
STD5 320-63675/8 IC		01/23/2015 19:01	1	W000008.D	Zorbax CN 4.6(mm)
STD6 320-63675/9 IC		01/23/2015 20:08	1	W000009.D	Zorbax CN 4.6(mm)
STD7 320-63675/10 IC		01/23/2015 21:15	1	W000010.D	Zorbax CN 4.6(mm)
ZZZZZ		01/23/2015 22:21	1		Zorbax CN 4.6(mm)
ICV 320-63675/12		01/23/2015 23:28	1	W000012.D	Zorbax CN 4.6(mm)
LODV 320-63675/13		01/24/2015 00:35	1	W000013.D	Zorbax CN 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC10 Start Date: 03/11/2015 15:03

Analysis Batch Number: 67883 End Date: 03/11/2015 22:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/11/2015 15:03	1		Synergi C18 4.6(mm)
IC 320-67883/4		03/11/2015 15:47	1	J000007.D	Synergi C18 4.6(mm)
IC 320-67883/5		03/11/2015 16:31	1	J000008.D	Synergi C18 4.6(mm)
IC 320-67883/6		03/11/2015 17:14	1	J000009.D	Synergi C18 4.6(mm)
IC 320-67883/7		03/11/2015 17:58	1	J000010.D	Synergi C18 4.6(mm)
IC 320-67883/8		03/11/2015 18:42	1	J000011.D	Synergi C18 4.6(mm)
IC 320-67883/9		03/11/2015 19:25	1	J000012.D	Synergi C18 4.6(mm)
IC 320-67883/10		03/11/2015 20:09	1	J000013.D	Synergi C18 4.6(mm)
ZZZZZ		03/11/2015 20:53	1		Synergi C18 4.6(mm)
ICV 320-67883/12		03/11/2015 21:36	1	J000015.D	Synergi C18 4.6(mm)
LODV 320-67883/13		03/11/2015 22:20	1	J000016.D	Synergi C18 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC10 Start Date: 04/15/2015 12:10

Analysis Batch Number: 71173 End Date: 04/16/2015 04:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 320-71173/3		04/15/2015 12:10	1	O000003.D	Synergi C18 4.6(mm)
CCV 320-71173/4 CCVRT		04/15/2015 12:54	1	O000004.D	Synergi C18 4.6(mm)
MB 320-70962/1-A		04/15/2015 17:15	1	O000010.D	Synergi C18 4.6(mm)
LCS 320-70962/2-A		04/15/2015 17:59	1	O000011.D	Synergi C18 4.6(mm)
ZZZZZ		04/15/2015 18:42	1		Synergi C18 4.6(mm)
ZZZZZ		04/15/2015 19:26	1		Synergi C18 4.6(mm)
240-49236-3	079SB-0385-0001-SW	04/15/2015 20:09	1	O000014.D	Synergi C18 4.6(mm)
CCV 320-71173/15 CCVRT		04/15/2015 20:53	1	O000015.D	Synergi C18 4.6(mm)
ZZZZZ		04/15/2015 21:37	1		Synergi C18 4.6(mm)
ZZZZZ		04/15/2015 22:20	1		Synergi C18 4.6(mm)
ZZZZZ		04/15/2015 23:04	1		Synergi C18 4.6(mm)
ZZZZZ		04/15/2015 23:47	1		Synergi C18 4.6(mm)
ZZZZZ		04/16/2015 00:31	1		Synergi C18 4.6(mm)
ZZZZZ		04/16/2015 01:14	1		Synergi C18 4.6(mm)
ZZZZZ		04/16/2015 01:58	1		Synergi C18 4.6(mm)
ZZZZZ		04/16/2015 02:42	1		Synergi C18 4.6(mm)
CCV 320-71173/24 CCVRT		04/16/2015 03:25	1		Synergi C18 4.6(mm)
CCVL 320-71173/25		04/16/2015 04:09	1	O000025.D	Synergi C18 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: LC9 Start Date: 04/23/2015 18:05

Analysis Batch Number: 71996 End Date: 04/24/2015 05:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 320-71996/3		04/23/2015 18:05	1	W000003.D	Zorbax CN 4.6(mm)
CCV 320-71996/4 CCVRT		04/23/2015 19:12	1	W000004.D	Zorbax CN 4.6(mm)
ZZZZZ		04/23/2015 21:25	1		Zorbax CN 4.6(mm)
ZZZZZ		04/23/2015 22:32	10		Zorbax CN 4.6(mm)
ZZZZZ		04/24/2015 00:45	1		Zorbax CN 4.6(mm)
ZZZZZ		04/24/2015 01:52	1		Zorbax CN 4.6(mm)
240-49236-3	079SB-0385-0001-SW	04/24/2015 02:59	1	W000011.D	Zorbax CN 4.6(mm)
CCV 320-71996/12 CCVRT		04/24/2015 04:05	1	W000012.D	Zorbax CN 4.6(mm)
CCVL 320-71996/13		04/24/2015 05:12	1	W000013.D	Zorbax CN 4.6(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Batch Number: 70962 Batch Start Date: 04/13/15 09:25 Batch Analyst: Arauz, Horacio J

Batch Method: 8330-Prep Batch End Date: 04/13/15 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HP34DNTSU 00039	HP8330SP 00051
MB 320-70962/1		8330-Prep, 8330B				1000 mL	20 mL	50 uL	
LCS 320-70962/2		8330-Prep, 8330B				1000 mL	20 mL	50 uL	20 uL
240-49236-G-3	079SB-0385-0001-SW	8330-Prep, 8330B	T	1349.6 g	410.28 g	939.3 mL	20 mL	50 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	HPNGPETNSP 00026					
MB 320-70962/1		8330-Prep, 8330B							
LCS 320-70962/2		8330-Prep, 8330B		100 uL					
240-49236-G-3	079SB-0385-0001-SW	8330-Prep, 8330B	T						

Batch Notes	
0.1% HOAc/CAN Lot 3	410189
Balance ID	QA-070
Batch Comment	Pipette EC15219
Person's name who did the concentration	HJA
Date of Clean up	4-13-15
Date Dilution Performed	4-13-15
Analytst performing Dilution	HJA
Filter Lot #	.45um Millipore R4NA21509
Date of Final Volume	4-13-15
Millipore Water Dispense Date	4-13-15
Prep Solvent Volume Used	5 mL
Person's name who witnessed reagent drop	SNE
Solvent	0.1% HOAC/ACN
SPE Cartridge Lot #	Waters 004234329A

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Batch Number: 70962 Batch Start Date: 04/13/15 09:25 Batch Analyst: Arauz, Horacio J

Batch Method: 8330-Prep Batch End Date: 04/13/15 15:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

HPLC/LCMS Data Review Checklist

Job Number(s): 240-49236 Work List ID(s): 21039(LC10), 21276(LC9)

Extraction Batch: 70962 Analysis Batch(es): 71173, 71996.

Delivery Rank 4 Due Date: 4/28/2015

A. Calibration/Instrument Run QC	1st Level	2nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch# 67883, 63675	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• $RF_{average}$ criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓	✓	
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).	✓		✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓	✓	
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?		✓	✓
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.	✓	✓	
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?	✓	✓	
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all non-conformances documented/attached? NCM#			✓
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.

1st Level (Analyst): YPH Date: 4/27/2015

2nd Level Reviewer: V. Nikaet Date: 4/29/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

GC/HPLC ICAL Review Checklist

Instrument ID: LC10 Method: 8330A/B

Work List ID: 20096 Analysis Batch(es): 67883(8330B), 67884(8330A) 67885(P) 67886(B-DOD5)

Analytes Included in this ICAL: 8330+3,5-DNA, NG, PETN, EGDN

(ICAL 3/11/2015)

ICAL Review	1st Level	2nd Level	N/A
1. Method locked in Chrom.	✓	✓	
2. ICAL is set as most recent method in Chrom.	✓	✓	
3. PEM meets measurements for 8081			✓
4. Alkane Marker included for 8015 TPH and RT windows set correctly			✓
5. Standards used in ICAL are correct	✓	✓	
6. No analytes have saturated peaks	✓	✓	
7. All peaks correctly identified and within retention time windows	✓	✓	
8. Manual integrations reviewed and appropriate	✓	✓	
9. All analytes meet %RSD or linear regression requirements	✓	✓	
10. Any levels dropped are reviewed and appropriate	✓	✓	
11. ICV meets requirements and is run after the ICAL	✓	✓	
12. RFs are calculated correctly. Perform Manual calculation	✓	✓	
13. ICAL meets requirements stated in SOP	✓	✓	
13. Chromatograms are uploaded/reviewed in ?TALs	✓	✓	
14. ICAL is locked in TALs.		✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3,V4, V5	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
8330B DoD5	✓		RSD ≤15%, r≥ 0.99, ICV≤20%

1st Level Reviewer: YPH 3/12/2015 Date: 3/12/2015

2nd Level Reviewer: MWolf Date: 3/17/2015

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

GC/HPLC ICAL Review Checklist

Instrument ID: LC 9 Method: 8330A/B

Work List ID: 18933 Analysis Batch(es): 63674(A) 63675(B) 63676(P) 63677(DOD5)

Analytes Included in this ICAL: 8330+3,5-DNA, NG, PETN, EGDN

(ICal 1/23/15)

ICAL Review	1st Level	2nd Level	N/A
1. Method locked in Chrom.	✓	✓	
2. ICAL is set as most recent method in Chrom.	✓	✓	
3. PEM meets requirements for 8081.		✓	✓
4. Alkane Marker included for 8015 TPH and RT windows set correctly.		✓	✓
5. Standards used in ICAL are current.	✓	✓	
6. No analytes have saturated peaks.	✓	✓	
7. All peaks correctly identified and within retention time windows.	✓	✓	
8. Manual Integrations reviewed and appropriate.	✓	✓	
9. All analytes meet %RSD or linear regression requirements.	✓	✓	
10. Any levels dropped are reviewed and appropriate.	✓	✓	
11. ICV meets requirements and is run after the ICAL.	✓	✓	
12. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
13. ICAL meets requirements stated in SOP.	✓	✓	
14. Chromatograms are uploaded/reviewed in TALs.	✓	✓	
15. ICAL is locked in TALs.		✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3,V4	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330), PEM ≤15%

1st Level Reviewer: _____ Date: 1/26/15

2nd Level Reviewer: YPH | JNMA Date: 1/26/2015

Comments:

TestAmerica Laboratories
Worklist Report

Worklist Name: 04-15-2015 8330 Worklist Number: 21039
Instrument Name: LC10 Chrom Method: 8330_LC10
Injection Volume: 500.0 Units: ul
Analysis Type: Semi VOA
Batch Directory: \\SACChrom\ChromData\LC10\20150415-21039.b
Upload Directory: \\CORPTALSAPP02\320-WS-RawData\Organics\LC\LC10

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021039-001	# 1 Primer		Client		sv	1.000000	mL	1.000000
320-0021039-002	# 2 Primer		Client		sv	1.000000	mL	1.000000
320-0021039-003	# 3 CCVL	HP8330ICL_00023	CCVL		sv	1.000000	mL	1.000000
320-0021039-004	# 4 CCV 05	HP8330L5_00034	CCVRT		sv	1.000000	mL	1.000000
320-0021039-005	# 5 MB 320-71105/1-A		MB		sv	1.000000	mL	1.000000
320-0021039-006	# 6 LCS 320-71105/2-A		LCS		sv	1.000000	mL	1.000000
320-0021039-007	# 7 320-12503-A-1-A		Client		sv	1.000000	mL	1.000000
320-0021039-008	# 8 320-12363-A-1-A		Client		sv	1.000000	mL	50.00
320-0021039-009	# 9 320-12365-A-1-A		Client		sv	1.000000	mL	20.00
320-0021039-010	#10 MB 320-70962/1-A		MB		sv	1.000000	mL	1.000000
320-0021039-011	#11 LCS 320-70962/2-A		LCS		sv	1.000000	mL	1.000000
320-0021039-012	#12 480-78091-M-1-A		Client		sv	1.000000	mL	1.000000
320-0021039-013	#13 480-78091-N-2-A		Client		sv	1.000000	mL	1.000000
320-0021039-014	#14 240-49236-G-3-A		Client		sv	1.000000	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021039-015	#15 CCV 04	HP8330L4_00025	CCVRT		sv	1.000000	mL	1.000000
320-0021039-016	#16 MB 320-71036/1-A		MB		sv	1.000000	mL	1.000000
320-0021039-017	#17 LCS 320-71036/2-A		LCS		sv	1.000000	mL	1.000000
320-0021039-018	#18 240-49085-E-8-A		Client		sv	1.000000	mL	1.000000
320-0021039-019	#19 240-49085-E-8-B MS		MS		sv	1.000000	mL	1.000000
320-0021039-020	#20 240-49085-E-8-C MSD		MSD		sv	1.000000	mL	1.000000
320-0021039-021	#21 240-49085-E-15-A		Client		sv	1.000000	mL	1.000000
320-0021039-022	#22 240-49085-E-22-A		Client		sv	1.000000	mL	1.000000
320-0021039-023	#23 240-49085-E-34-A		Client		sv	1.000000	mL	1.000000
320-0021039-024	#24 CCV 04	HP8330L4_00025	CCVRT		sv	1.000000	mL	1.000000
320-0021039-025	#25 CCVL	HP8330ICL_00023	CCVL		sv	1.000000	mL	1.000000

TestAmerica Laboratories
Worklist Report

Worklist Name: 04-23-2015 8330 Worklist Number: 21276
Instrument Name: LC9 Chrom Method: LC9_Conf_8330
Injection Volume: 500.0 Units: ul
Analysis Type: Semi VOA
Batch Directory: \\SACChrom\ChromData\LC9\20150423-21276.b
Upload Directory: \\CORPTALSAPP02\320-WS-RawData\Organics\LC\LC9

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021276-001	# 1 Primer		Client		sv	1.000000	mL	1.000000
320-0021276-002	# 2 Primer		Client		sv	1.000000	mL	1.000000
320-0021276-003	# 3 CCVL	HP8330icl_00025	CCVL		sv	1.000000	mL	1.000000
320-0021276-004	# 4 CCV 05	hp8330L5_00035	CCVRT		sv	1.000000	mL	1.000000
320-0021276-005	# 5 MB		MB		sv	1.000000	mL	1.000000
320-0021276-006	# 6 480-78091-M-1-A		Client		sv	1.000000	mL	1.000000
320-0021276-007	# 7 240-49236-G-3-A		Client		sv	1.000000	mL	10.00
320-0021276-008	# 8 240-49071-E-2-A		Client		sv	1.000000	mL	1.000000
320-0021276-009	# 9 240-49233-C-8-A		Client		sv	1.000000	mL	1.000000
320-0021276-010	#10 320-12596-A-1-A		Client		sv	1.000000	mL	1.000000
320-0021276-011	#11 240-49236-G-3-A		Client		sv	1.000000	mL	1.000000
320-0021276-012	#12 CCV 04	HP8330L4_00026	CCVRT		sv	1.000000	mL	1.000000
320-0021276-013	#13 CCVL	HP8330icl_00025	CCVL		sv	1.000000	mL	1.000000

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

CW

Batch Number: 320-70962

Analyst: Arauz, Horacio J

Batch Open: 4/13/2015 9:25:45AM

Method Code: 320-8330_SPE_P_IVWT-320

Batch End: 4-13-15 15:00

Solid-Phase Extraction (Explosives)

	Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	PHs Rcvd	PHs Adj1	PHs Adj2	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~320-70962/1 N/A	N/A		1000 mL 20 mL				N/A	N/A	N/A		MB 320-70962/1-A
2	LCS~320-70962/2 N/A	N/A		1000 mL 20 mL				N/A	N/A	N/A		LCS 320-70962/2-A
3	480-78091-M-1 (8330B)	N/A	1485.5 g 500.44 g	985.1 mL 20 mL				4/27/15	12_Days	2		480-78091-M-1-A
4	480-78091-N-2 (8330B)	N/A	1472.9 g 500.65 g	972.3 mL 20 mL				4/27/15	12_Days	2		480-78091-N-2-A
5	240-49236-G-3 (8330B)	N/A	1349.6 g 410.28 g	939.3 mL 20 mL				4/28/15	12_Days	4		240-49236-G-3-A

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Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-70962

Analyst: Arauz, Horacio J

Batch Open: 4/13/2015 9:25:45AM

Method Code: 320-8330_SPE_P_IVWT-320

Batch End:

Batch Notes

Acid used for pH adjustment	NA
Base used for pH adjustment	NA
Solvent	0.1% HOAC/ACN
Vendor lot number	NA
Prep Solvent Volume Used	5
Person's name who witnessed reagent drop	SNE
Person's name who did the concentration	HJA
SPE Cartridge Lot #	Waters 004234329A
Date of Final Volume	4-13-15
Balance ID	QA-070
Millipore Water Dispense Date	4-13-15
0.1% HOAc/CAN Lot 3	410189
Filter Lot #	.45um Millipore R4NA21509
Date of Clean up	4-13-15
Date Dilution Performed	4-13-15
Analytst performing Dilution	HJA
Batch Comment	Pipette EC15219

Page 2604 of 3796

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-70962
Method Code: 320-8330_SPE_P_IVWT-320

Analyst: Arauz, Horacio J

Batch Open: 4/13/2015 9:25:45AM
Batch End:

Comments

240-49236-G-3

Method Comments: Q4 + run bracketing MRLs

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-70962

Analyst: Arauz, Horacio J

Batch Open: 4/13/2015 9:25:45AM

Method Code: 320-8330_SPE_P_IVWT-320

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-70962/1	HP34DNTSU_00039	50 uL	20 mL	HJA 4-13-15	SNE 4/13/15
LCS 320-70962/2	HP34DNTSU_00039	50 uL	20 mL		
LCS 320-70962/2	HP8330SP_00051	20 uL	20 mL		
LCS 320-70962/2	HPNGPETNSP_00026	100 uL	20 mL		
480-78091-M-1	HP34DNTSU_00039	50 uL	20 mL		
480-78091-N-2	HP34DNTSU_00039	50 uL	20 mL		
240-49236-G-3	HP34DNTSU_00039	50 uL	20 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-70962 Test: 8330B-L

Earliest Holding Time: 4-15-15 / 4-17-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed correctly in TALS	NA	NA
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	**1st Level Reviewer**	**2nd Level Reviewer**
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly		✓

1st Level Reviewer: HSA Date: 4-13-15

2nd Level Reviewer: [signature] Date: 4/13/15

Comments: _____

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG No.:

Project: Ravenna Army Ammunition Plant

Client Sample ID	Lab Sample ID
079SB-0383-0001-IDW	240-49236-1
079SB-0384-0001-IDW	240-49236-2
079SB-0385-0001-SW	240-49236-3
079SB-0386-0001-RB	240-49236-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: 079SB-0383-0001-IDW
Lab Sample ID: 240-49236-1
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/10/2015 08:00
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.0027	0.50	0.0050	0.00092	mg/L	J		1	6010B
Arsenic	0.013	2.0	0.040	0.012	mg/L	J	D	4	6010B
Barium	0.38	10	0.0050	0.0010	mg/L	J		1	6010B
Cadmium	0.0010	0.10	0.0010	0.00014	mg/L	J		1	6010B
Chromium	0.0039	0.50	0.0040	0.00055	mg/L	J		1	6010B
Lead	0.022	0.50	0.0050	0.0019	mg/L	J		1	6010B
Selenium	0.018	1.0	0.040	0.016	mg/L	J	D	4	6010B
Hg	0.00020	0.0020	0.00020	0.000090	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: 079SB-0384-0001-IDW
Lab Sample ID: 240-49236-2
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Water
Date Sampled: 04/10/2015 08:30
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.0050	0.50	0.0050	0.00092	mg/L	U		1	6010B
Arsenic	0.0074	0.50	0.010	0.0029	mg/L	J		1	6010B
Barium	0.045	10	0.0050	0.0010	mg/L	J		1	6010B
Cadmium	0.00076	0.10	0.0010	0.00014	mg/L	J		1	6010B
Chromium	0.0067	0.50	0.0040	0.00055	mg/L	J		1	6010B
Lead	0.023	0.50	0.0050	0.0019	mg/L	J		1	6010B
Selenium	0.010	0.25	0.010	0.0040	mg/L	U		1	6010B
Hg	0.00020	0.0020	0.00020	0.000090	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0385-0001-SW
Lab Sample ID: 240-49236-3
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Water
Date Sampled: 04/10/2015 08:45
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.20	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 079SB-0385-0001-SW
Lab Sample ID: 240-49236-3
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Water
Date Sampled: 04/10/2015 08:45
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	60	60	60	9.0	ug/L	U		1	6020
Antimony	0.43	2.0	1.0	0.16	ug/L	J		1	6020
Arsenic	0.93	5.0	1.0	0.18	ug/L	J		1	6020
Barium	18	5.0	4.0	1.1	ug/L			1	6020
Beryllium	0.27	1.0	1.0	0.053	ug/L	J		1	6020
Cadmium	0.38	2.0	1.0	0.061	ug/L	J		1	6020
Calcium	18000	2000	1000	240	ug/L			1	6020
Chromium	1.3	6.0	6.0	0.20	ug/L	J		1	6020
Cobalt	0.28	1.0	0.20	0.021	ug/L	J		1	6020
Copper	1.1	4.0	4.0	0.75	ug/L	J		1	6020
Iron	30	150	100	16	ug/L	J		1	6020
Lead	0.18	1.0	0.50	0.11	ug/L	J		1	6020
Magnesium	31000	5000	1500	240	ug/L		D	5	6020
Manganese	10	10	10	1.1	ug/L	U		1	6020
Nickel	3.0	5.0	3.0	0.23	ug/L	U		1	6020
Potassium	2700	1000	150	30	ug/L			1	6020
Selenium	0.62	5.0	0.50	0.25	ug/L	J		1	6020
Silver	0.25	1.0	0.25	0.020	ug/L	U		1	6020
Sodium	43000	1000	400	68	ug/L			1	6020
Thallium	0.22	2.0	1.5	0.074	ug/L	J		1	6020
Vanadium	0.35	5.0	1.5	0.23	ug/L	J		1	6020
Zinc	50	50	50	7.3	ug/L	U		1	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0386-0001-RB
Lab Sample ID: 240-49236-4
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Water
Date Sampled: 04/10/2015 08:50
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.20	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 079SB-0386-0001-RB
Lab Sample ID: 240-49236-4
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Water
Date Sampled: 04/10/2015 08:50
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	53	60	60	9.0	ug/L	J		1	6020
Antimony	0.66	2.0	1.0	0.16	ug/L	J		1	6020
Arsenic	0.38	5.0	1.0	0.18	ug/L	J		1	6020
Barium	4.0	5.0	4.0	1.1	ug/L	U		1	6020
Beryllium	0.16	1.0	1.0	0.053	ug/L	J		1	6020
Cadmium	0.079	2.0	1.0	0.061	ug/L	J		1	6020
Calcium	1000	2000	1000	240	ug/L	U		1	6020
Chromium	2.0	6.0	6.0	0.20	ug/L	J		1	6020
Cobalt	0.13	1.0	0.20	0.021	ug/L	J		1	6020
Copper	4.0	4.0	4.0	0.75	ug/L	U		1	6020
Iron	57	150	100	16	ug/L	J		1	6020
Lead	0.50	1.0	0.50	0.11	ug/L	U		1	6020
Magnesium	300	1000	300	48	ug/L	U		1	6020
Manganese	5.8	10	10	1.1	ug/L	J		1	6020
Nickel	2.8	5.0	3.0	0.23	ug/L	J		1	6020
Potassium	150	1000	150	30	ug/L	U		1	6020
Selenium	0.50	5.0	0.50	0.25	ug/L	U		1	6020
Silver	0.25	1.0	0.25	0.020	ug/L	U		1	6020
Sodium	840	1000	400	68	ug/L	J		1	6020
Thallium	0.11	2.0	1.5	0.074	ug/L	J		1	6020
Vanadium	0.26	5.0	1.5	0.23	ug/L	J		1	6020
Zinc	50	50	50	7.3	ug/L	U		1	6020

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MT6500ICV_00025 Concentration Units: ug/L

CCV Source: MTICPCCV_00045

Analyte	ICV 240-176918/4 04/17/2015 06:28				CCV 240-176918/24 04/17/2015 08:06				CCV 240-176918/36 04/17/2015 08:58			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	386		375	103	514		500	103	515		500	103
Barium	1500	J	1500	100	1980	J	2000	99	2020	J	2000	101
Cadmium	383		375	102	507		500	101	513		500	103
Chromium	1490		1500	99	1980		2000	99	2010		2000	101
Lead	379		375	101	494		500	99	494		500	99
Selenium	390		375	104	514		500	103	515		500	103
Silver	761		750	102	1020		1000	102	1030		1000	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MT6500ICV_00025 Concentration Units: ug/L

CCV Source: MTICPCCV_00045

Analyte	CCV 240-176918/48 04/17/2015 09:47											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	511		500	102								
Barium	2000	J	2000	100								
Cadmium	510		500	102								
Chromium	2000		2000	100								
Lead	494		500	99								
Selenium	516		500	103								
Silver	1030		1000	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	ICV 240-176490/7 04/14/2015 09:27				CCV 240-176490/21 04/14/2015 10:36				CCV 240-176490/33 04/14/2015 11:20			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	41.8		40.0	104	52.6		50.0	105	52.8		50.0	106
Arsenic	40.2		40.0	100	50.5		50.0	101	50.6		50.0	101
Barium	40.7		40.0	102	50.4		50.0	101	51.2		50.0	102
Cadmium	41.8		40.0	104	51.5		50.0	103	51.9		50.0	104
Calcium	19700		20000	98	25700		25000	103	25500		25000	102
Chromium	40.7		40.0	102	51.7		50.0	103	51.2		50.0	102
Cobalt	40.7		40.0	102	51.9		50.0	104	51.7		50.0	103
Copper	41.6		40.0	104	52.8		50.0	106	52.6		50.0	105
Iron	10200		10000	102	12900		12500	103	12800		12500	102
Lead	40.7		40.0	102	49.3		50.0	99	50.2		50.0	100
Magnesium	20400		20000	102	25600		25000	102	25300		25000	101
Nickel	41.4		40.0	103	52.0		50.0	104	51.8		50.0	104
Potassium	20500		20000	103	25400		25000	102	25100		25000	100
Selenium	41.8		40.0	105	49.6		50.0	99	49.8		50.0	100
Silver	41.6		40.0	104	50.7		50.0	101	50.5		50.0	101
Sodium	20200		20000	101	25500		25000	102	25200		25000	101
Thallium	39.8		40.0	99	48.5		50.0	97	49.7		50.0	99
Vanadium	40.7		40.0	102	51.4		50.0	103	50.7		50.0	101
Zinc	42.1	J	40.0	105	51.7		50.0	103	51.6		50.0	103
Aluminum	197		200	99	248		250	99	238		250	95
Beryllium	40.2		40.0	101	48.0		50.0	96	48.5		50.0	97
Manganese	204		200	102	259		250	104	260		250	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	CCV 240-176490/40 04/14/2015 11:47											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	53.0		50.0	106								
Arsenic	50.7		50.0	101								
Barium	51.0		50.0	102								
Cadmium	52.2		50.0	104								
Calcium	25700		25000	103								
Chromium	51.9		50.0	104								
Cobalt	52.1		50.0	104								
Copper	52.8		50.0	106								
Iron	12800		12500	103								
Lead	49.9		50.0	100								
Magnesium	25400		25000	101								
Nickel	52.1		50.0	104								
Potassium	25400		25000	102								
Selenium	50.6		50.0	101								
Silver	50.9		50.0	102								
Sodium	25500		25000	102								
Thallium	49.3		50.0	99								
Vanadium	51.5		50.0	103								
Zinc	52.3		50.0	105								
Aluminum	242		250	97								
Beryllium	50.1		50.0	100								
Manganese	262		250	105								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	ICV 240-176660/7 04/15/2015 10:27				CCV 240-176660/44 04/15/2015 12:48				CCV 240-176660/56 04/15/2015 13:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	211		200	105	240		250	96	243		250	97
Magnesium	20600		20000	103	24200		25000	97	24800		25000	99
Manganese	198		200	99	250		250	100	258		250	103
Sodium	20600		20000	103	24200		25000	97	24900		25000	99
Antimony	37.6		40.0	94	51.3		50.0	103	52.0		50.0	104
Arsenic	40.3		40.0	101	49.5		50.0	99	49.3		50.0	99
Barium	41.0		40.0	102	50.5		50.0	101	50.5		50.0	101
Beryllium	41.4		40.0	103	49.4		50.0	99	48.3		50.0	97
Cadmium	41.5		40.0	104	50.3		50.0	101	50.6		50.0	101
Calcium	19800		20000	99	23700		25000	95	24200		25000	97
Chromium	41.4		40.0	104	49.4		50.0	99	51.2		50.0	102
Cobalt	41.2		40.0	103	49.6		50.0	99	51.5		50.0	103
Copper	42.3		40.0	106	50.1		50.0	100	52.3		50.0	105
Iron	10200		10000	102	12300		12500	99	12800		12500	103
Lead	42.4		40.0	106	50.6		50.0	101	51.1		50.0	102
Nickel	42.0		40.0	105	50.1		50.0	100	52.2		50.0	104
Potassium	20400		20000	102	24300		25000	97	24800		25000	99
Selenium	42.0		40.0	105	49.4		50.0	99	48.7		50.0	97
Silver	41.7		40.0	104	49.6		50.0	99	49.6		50.0	99
Thallium	37.2		40.0	93	44.9		50.0	90	45.4		50.0	91
Vanadium	40.8		40.0	102	49.3		50.0	99	51.0		50.0	102
Zinc	43.6	J	40.0	109	50.3		50.0	101	51.1		50.0	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	CCV 240-176660/63 04/15/2015 14:02											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	243		250	97								
Magnesium	24700		25000	99								
Manganese	255		250	102								
Sodium	24500		25000	98								
Antimony	52.0		50.0	104								
Arsenic	49.5		50.0	99								
Barium	50.3		50.0	101								
Beryllium	48.4		50.0	97								
Cadmium	50.9		50.0	102								
Calcium	24100		25000	97								
Chromium	50.2		50.0	100								
Cobalt	50.6		50.0	101								
Copper	51.4		50.0	103								
Iron	12700		12500	101								
Lead	50.6		50.0	101								
Nickel	51.2		50.0	102								
Potassium	24700		25000	99								
Selenium	49.8		50.0	100								
Silver	50.1		50.0	100								
Thallium	45.0		50.0	90								
Vanadium	49.6		50.0	99								
Zinc	51.1		50.0	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	ICV 240-177115/7 04/20/2015 10:44				CCV 240-177115/104 04/20/2015 17:10				CCV 240-177115/116 04/20/2015 17:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	41.0		40.0	102	46.0		50.0	92	46.3		50.0	93
Aluminum	206		200	103	247		250	99	245		250	98
Antimony	38.3		40.0	96	52.7		50.0	105	53.4		50.0	107
Arsenic	39.0		40.0	97	49.2		50.0	98	49.3		50.0	99
Barium	41.3		40.0	103	52.3		50.0	105	53.0		50.0	106
Cadmium	41.7		40.0	104	49.9		50.0	100	50.2		50.0	100
Calcium	20100		20000	100	24900		25000	100	24900		25000	100
Chromium	41.8		40.0	105	50.3		50.0	101	49.9		50.0	100
Cobalt	40.9		40.0	102	47.5		50.0	95	47.8		50.0	96
Copper	42.0		40.0	105	47.6		50.0	95	47.2		50.0	94
Iron	10400		10000	104	12800		12500	102	12700		12500	102
Lead	40.3		40.0	101	48.6		50.0	97	48.8		50.0	98
Magnesium	20800		20000	104	25100		25000	100	25100		25000	100
Manganese	205		200	103	250		250	100	249		250	100
Nickel	42.3		40.0	106	47.3		50.0	95	47.1		50.0	94
Potassium	20800		20000	104	26300		25000	105	25800		25000	103
Selenium	42.2		40.0	106	49.2		50.0	98	49.8		50.0	100
Silver	41.8		40.0	104	49.4		50.0	99	49.6		50.0	99
Sodium	20800		20000	104	25200		25000	101	25000		25000	100
Thallium	39.0		40.0	97	47.1		50.0	94	47.2		50.0	94
Vanadium	41.2		40.0	103	50.8		50.0	102	50.9		50.0	102
Zinc	42.4	J	40.0	106	47.7	J	50.0	95	48.5	J	50.0	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTHgStd_00016 Concentration Units: ug/L

CCV Source: MTHGCALW_00879

Analyte	ICV 240-176216/7-A 04/14/2015 08:55				CCV 240-176216/10-A 04/14/2015 10:43				CCV 240-176216/10-A 04/14/2015 11:02			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.96		5.00	99	4.84		5.00	97	4.81		5.00	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTHgStd_00016 Concentration Units: ug/L

CCV Source: MTHGCALW_00879

Analyte	CCV 240-176216/10-A 04/14/2015 11:21											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.75		5.00	95								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICV Source: MTHgStd_00016 Concentration Units: ug/L

CCV Source: MTHGCALW_00883

Analyte	ICV 240-176762/7-A 04/17/2015 08:48				CCV 240-176762/10-A 04/17/2015 10:31				CCV 240-176762/10-A 04/17/2015 10:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	5.21		5.00	104	5.38		5.00	108	5.28		5.00	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method: 6010B Instrument ID: I9

Lab Sample ID: CRI 240-176918/6 Concentration Units: ug/L

CRQL Check Standard Source: ICPCRIW_00011

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	5.00	5.10		102	70-130
Arsenic	15.0	17.3		116	70-130
Barium	10.0	10.3	J	103	70-130
Cadmium	5.00	5.18		104	70-130
Chromium	5.00	5.34		107	70-130
Lead	10.0	11.7		117	70-130
Selenium	20.0	22.7		114	70-130

Lab Sample ID: CRI 240-176918/44 Concentration Units: ug/L

CRQL Check Standard Source: ICPCRIW_00011

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	5.00	4.68	J	94	70-130
Arsenic	15.0	17.8		119	70-130
Barium	10.0	11.1	J	111	70-130
Cadmium	5.00	5.05		101	70-130
Chromium	5.00	5.58		112	70-130
Lead	10.0	10.4		104	70-130
Selenium	20.0	20.5		102	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-176490/9 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	37.2	J	74	70-130
Antimony	2.00	2.19		109	70-130
Arsenic	5.00	5.09		102	70-130
Barium	5.00	5.01		100	70-130
Beryllium	1.00	0.787	J	79	70-130
Cadmium	1.00	1.06	J	106	70-130
Calcium	1000	1010	J	101	70-130
Chromium	2.00	2.11	J	105	70-130
Cobalt	1.00	1.09		109	70-130
Copper	2.00	2.15	J	107	70-130
Iron	100	103	J	103	70-130
Lead	1.00	1.06		106	70-130
Magnesium	1000	1060		106	70-130
Manganese	5.00	4.85	J	97	70-130
Nickel	2.00	2.06	J	103	70-130
Potassium	1000	1070		107	70-130
Selenium	5.00	4.97	J	99	70-130
Silver	1.00	1.06		106	70-130
Sodium	1000	1080		108	70-130
Thallium	2.00	2.05		103	70-130
Vanadium	5.00	5.20		104	70-130
Zinc	20.0	21.6	J	108	70-130

Lab Sample ID: CRI 240-176490/42 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	35.9	J	72	70-130
Antimony	2.00	2.25		112	70-130
Arsenic	5.00	5.11		102	70-130
Barium	5.00	5.18		104	70-130
Beryllium	1.00	0.963	J	96	70-130
Cadmium	1.00	1.03	J	103	70-130
Calcium	1000	997	J	100	70-130
Chromium	2.00	2.11	J	106	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-176490/42 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	1.00	1.07		107	70-130
Copper	2.00	2.24	J	112	70-130
Iron	100	105	J	105	70-130
Lead	1.00	1.07		107	70-130
Magnesium	1000	1030		103	70-130
Manganese	5.00	4.79	J	96	70-130
Nickel	2.00	2.02	J	101	70-130
Potassium	1000	1030		103	70-130
Selenium	5.00	5.24		105	70-130
Silver	1.00	1.04		104	70-130
Sodium	1000	1060		106	70-130
Thallium	2.00	2.05		102	70-130
Vanadium	5.00	5.19		104	70-130
Zinc	20.0	21.4	J	107	70-130

Lab Sample ID: CRI 240-176660/9 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	52.7	J	105	70-130
Antimony	2.00	2.34		117	70-130
Arsenic	5.00	5.00		100	70-130
Barium	5.00	4.98	J	100	70-130
Beryllium	1.00	0.775	J	78	70-130
Cadmium	1.00	1.03	J	103	70-130
Calcium	1000	1030	J	103	70-130
Chromium	2.00	2.12	J	106	70-130
Cobalt	1.00	1.07		107	70-130
Copper	2.00	2.14	J	107	70-130
Iron	100	104	J	104	70-130
Lead	1.00	1.08		108	70-130
Magnesium	1000	1080		108	70-130
Manganese	5.00	5.17	J	103	70-130
Nickel	2.00	2.18	J	109	70-130
Potassium	1000	1050		105	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-176660/9 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Selenium	5.00	5.05		101	70-130
Silver	1.00	1.06		106	70-130
Sodium	1000	1070		107	70-130
Thallium	2.00	1.86	J	93	70-130
Vanadium	5.00	5.24		105	70-130
Zinc	20.0	22.0	J	110	70-130

Lab Sample ID: CRI 240-176660/65 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	51.9	J	104	70-130
Antimony	2.00	2.25		112	70-130
Arsenic	5.00	4.92	J	98	70-130
Barium	5.00	5.01		100	70-130
Beryllium	1.00	1.02		102	70-130
Cadmium	1.00	1.10	J	110	70-130
Calcium	1000	1030	J	103	70-130
Chromium	2.00	2.15	J	107	70-130
Cobalt	1.00	1.13		113	70-130
Copper	2.00	2.61	J	131	70-130
Iron	100	106	J	106	70-130
Lead	1.00	1.11		111	70-130
Magnesium	1000	1080		108	70-130
Manganese	5.00	5.25	J	105	70-130
Nickel	2.00	2.27	J	113	70-130
Potassium	1000	1060		106	70-130
Selenium	5.00	4.99	J	100	70-130
Silver	1.00	1.05		105	70-130
Sodium	1000	1100		110	70-130
Thallium	2.00	1.90	J	95	70-130
Vanadium	5.00	5.27		105	70-130
Zinc	20.0	22.5	J	113	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-177115/10 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00021

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	50.6	J	101	70-130
Antimony	2.00	2.06		103	70-130
Arsenic	5.00	4.96	J	99	70-130
Barium	5.00	4.98	J	100	70-130
Beryllium	1.00	0.864	J	86	70-130
Cadmium	1.00	1.04	J	104	70-130
Calcium	1000	1020	J	102	70-130
Chromium	2.00	2.14	J	107	70-130
Cobalt	1.00	1.05		105	70-130
Copper	2.00	2.03	J	101	70-130
Iron	100	107	J	107	70-130
Lead	1.00	1.05		105	70-130
Magnesium	1000	1080		108	70-130
Manganese	5.00	5.31	J	106	70-130
Nickel	2.00	2.08	J	104	70-130
Potassium	1000	1050		105	70-130
Selenium	5.00	5.27		105	70-130
Silver	1.00	1.05		105	70-130
Sodium	1000	1080		108	70-130
Thallium	2.00	1.95	J	98	70-130
Vanadium	5.00	5.26		105	70-130
Zinc	20.0	20.2	J	101	70-130

Lab Sample ID: CRI 240-177115/120 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00021

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	50.1	J	100	70-130
Antimony	2.00	1.91	J	96	70-130
Arsenic	5.00	4.94	J	99	70-130
Barium	5.00	5.24		105	70-130
Beryllium	1.00	0.994	J	99	70-130
Cadmium	1.00	1.08	J	108	70-130
Calcium	1000	1040	J	104	70-130
Chromium	2.00	3.73	J	186	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-177115/120 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00021

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	1.00	0.974	J	97	70-130
Copper	2.00	1.82	J	91	70-130
Iron	100	112	J	112	70-130
Lead	1.00	1.07		107	70-130
Magnesium	1000	1040		104	70-130
Manganese	5.00	5.47	J	109	70-130
Nickel	2.00	2.65	J	132	70-130
Potassium	1000	1070		107	70-130
Selenium	5.00	4.89	J	98	70-130
Silver	1.00	1.00		100	70-130
Sodium	1000	1090		109	70-130
Thallium	2.00	1.91	J	96	70-130
Vanadium	5.00	5.23		105	70-130
Zinc	20.0	19.5	J	98	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-176216/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00879

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.206		103	

Lab Sample ID: CRA 240-176216/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00879

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.200		100	

Lab Sample ID: CRA 240-176762/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00883

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Hg	0.200	0.143	J	72	

Lab Sample ID: CRA 240-176762/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00883

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Hg	0.200	0.212		106	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-176918/5 04/17/2015 06:31		CCB 240-176918/25 04/17/2015 08:10		CCB 240-176918/37 04/17/2015 09:02		CCB 240-176918/49 04/17/2015 09:51	
		Found	C	Found	C	Found	C	Found	C
Arsenic	10	10	U	10	U	10	U	10	U
Barium	10000	5.0	U	5.0	U	5.0	U	5.0	U
Cadmium	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Chromium	5.0	4.0	U	4.0	U	4.0	U	4.0	U
Lead	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Selenium	10	10	U	10	U	10	U	10	U
Silver	5.0	4.0	U	4.0	U	4.0	U	4.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-176490/8 04/14/2015 09:31		CCB 240-176490/22 04/14/2015 10:40		CCB 240-176490/34 04/14/2015 11:24		CCB 240-176490/41 04/14/2015 11:50	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.680	J	0.207	J	0.377	J	0.410	J
Arsenic	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Barium	5.0	4.0	U	4.0	U	4.0	U	4.0	U
Cadmium	2.0	1.0	U	1.0	U	0.109	J	0.0710	J
Calcium	2000	1000	U	1000	U	1000	U	1000	U
Chromium	6.0	6.0	U	6.0	U	6.0	U	6.0	U
Cobalt	1.0	0.20	U	0.20	U	0.0320	J	0.20	U
Copper	4.0	4.0	U	4.0	U	4.0	U	4.0	U
Iron	150	100	U	24.4	J	100	U	100	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Magnesium	1000	300	U	300	U	300	U	300	U
Nickel	5.0	3.0	U	3.0	U	3.0	U	3.0	U
Potassium	1000	150	U	150	U	150	U	150	U
Selenium	5.0	0.50	U	0.50	U	0.50	U	0.50	U
Silver	1.0	0.25	U	0.25	U	0.25	U	0.25	U
Sodium	1000	400	U	400	U	400	U	400	U
Thallium	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Vanadium	5.0	1.5	U	1.5	U	1.5	U	1.5	U
Zinc	50	50	U	50	U	50	U	50	U
Aluminum	60	10.8	J	60	U	60	U	60	U
Beryllium	1.0	1.0	U	1.0	U	0.338	J	0.209	J
Manganese	10	10	U	10	U	18.5		18.1	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-176660/8 04/15/2015 10:31		CCB 240-176660/45 04/15/2015 12:52		CCB 240-176660/57 04/15/2015 13:39		CCB 240-176660/64 04/15/2015 14:06	
		Found	C	Found	C	Found	C	Found	C
Aluminum	60	60	U	60	U	60	U	60	U
Magnesium	1000	300	U	300	U	300	U	300	U
Manganese	10	10	U	10	U	10	U	10	U
Sodium	1000	400	U	400	U	400	U	400	U
Antimony	2.0	1.23	J	0.777	J	0.612	J	0.572	J
Arsenic	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Barium	5.0	4.0	U	4.0	U	4.0	U	4.0	U
Beryllium	1.0	1.0	U	0.571	J	0.404	J	0.361	J
Cadmium	2.0	1.0	U	0.0740	J	1.0	U	0.0800	J
Calcium	2000	1000	U	1000	U	1000	U	1000	U
Chromium	6.0	6.0	U	6.0	U	6.0	U	6.0	U
Cobalt	1.0	0.20	U	0.0230	J	0.0230	J	0.0260	J
Copper	4.0	4.0	U	4.0	U	4.0	U	4.0	U
Iron	150	100	U	17.8	J	100	U	100	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	5.0	3.0	U	3.0	U	3.0	U	3.0	U
Potassium	1000	150	U	150	U	150	U	150	U
Selenium	5.0	0.50	U	0.50	U	0.50	U	0.50	U
Silver	1.0	0.25	U	0.25	U	0.25	U	0.25	U
Thallium	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Vanadium	5.0	1.5	U	1.5	U	1.5	U	1.5	U
Zinc	50	50	U	50	U	50	U	50	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-177115/8 04/20/2015 10:48		CCB 240-177115/105 04/20/2015 17:14		CCB 240-177115/117 04/20/2015 17:59			
		Found	C	Found	C	Found	C	Found	C
Beryllium	1.0	1.0	U	0.144	J	0.107	J		
Aluminum	60	60	U	60	U	60	U		
Antimony	2.0	1.14	J	0.178	J	0.168	J		
Arsenic	5.0	1.0	U	1.0	U	1.0	U		
Barium	5.0	4.0	U	4.0	U	4.0	U		
Cadmium	2.0	1.0	U	0.166	J	0.138	J		
Calcium	2000	1000	U	1000	U	1000	U		
Chromium	6.0	6.0	U	6.0	U	6.0	U		
Cobalt	1.0	0.20	U	0.0410	J	0.0260	J		
Copper	4.0	4.0	U	4.0	U	4.0	U		
Iron	150	100	U	16.6	J	100	U		
Lead	1.0	0.50	U	0.50	U	0.50	U		
Magnesium	1000	300	U	300	U	300	U		
Manganese	10	10	U	10	U	10	U		
Nickel	5.0	3.0	U	3.0	U	3.0	U		
Potassium	1000	150	U	150	U	150	U		
Selenium	5.0	0.50	U	0.280	J	0.252	J		
Silver	1.0	0.25	U	0.25	U	0.25	U		
Sodium	1000	400	U	400	U	400	U		
Thallium	2.0	1.5	U	0.0820	J	1.5	U		
Vanadium	5.0	1.5	U	1.5	U	1.5	U		
Zinc	50	50	U	50	U	50	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-176216/8-A 04/14/2015 08:57		CCB 240-176216/11-A 04/14/2015 10:44		CCB 240-176216/11-A 04/14/2015 11:03		CCB 240-176216/11-A 04/14/2015 11:24	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-176762/8-A 04/17/2015 08:50		CCB 240-176762/11-A 04/17/2015 10:32		CCB 240-176762/11-A 04/17/2015 10:52			
		Found	C	Found	C	Found	C	Found	C
Hg	0.20	0.20	U	0.20	U	0.20	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 240-176697/2-A

Instrument Code: I9 Batch No.: 176918

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.0050	U		6010_DOD
7440-38-2	Arsenic	0.010	U		6010_DOD
7440-39-3	Barium	0.00189	J		6010_DOD
7440-43-9	Cadmium	0.0010	U		6010_DOD
7440-47-3	Chromium	0.000744	J		6010_DOD
7439-92-1	Lead	0.0050	U		6010_DOD
7782-49-2	Selenium	0.010	U		6010_DOD

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 240-176620/1-B

Instrument Code: I9 Batch No.: 176918

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.0050	U		6010_DOD
7440-38-2	Arsenic	0.00433	J		6010_DOD
7440-39-3	Barium	0.00472	J		6010_DOD
7440-43-9	Cadmium	0.0010	U		6010_DOD
7440-47-3	Chromium	0.00185	J		6010_DOD
7439-92-1	Lead	0.00212	J		6010_DOD
7782-49-2	Selenium	0.00653	J		6010_DOD

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-176157/1-A

Instrument Code: I10 Batch No.: 176490

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.589	J		6020_DoD
7440-38-2	Arsenic	0.744	J		6020_DoD
7440-39-3	Barium	4.0	U		6020_DoD
7440-43-9	Cadmium	0.592	J		6020_DoD
7440-70-2	Calcium	1000	U		6020_DoD
7440-47-3	Chromium	1.20	J		6020_DoD
7440-48-4	Cobalt	0.484	J		6020_DoD
7440-50-8	Copper	1.17	J		6020_DoD
7439-89-6	Iron	19.9	J		6020_DoD
7439-92-1	Lead	0.367	J		6020_DoD
7439-95-4	Magnesium	300	U		6020_DoD
7440-02-0	Nickel	0.413	J		6020_DoD
7440-09-7	Potassium	150	U		6020_DoD
7782-49-2	Selenium	1.12	J		6020_DoD
7440-22-4	Silver	0.25	U		6020_DoD
7440-23-5	Sodium	400	U		6020_DoD
7440-28-0	Thallium	0.530	J		6020_DoD
7440-62-2	Vanadium	0.515	J		6020_DoD
7440-66-6	Zinc	50	U		6020_DoD

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-176157/1-A

Instrument Code: I10 Batch No.: 176660

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	60	U		6020_DoD
7439-95-4	Magnesium	300	U		6020_DoD
7439-96-5	Manganese	10	U		6020_DoD
7440-23-5	Sodium	400	U		6020_DoD

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-176157/1-A

Instrument Code: I10 Batch No.: 177115

CAS No.	Analyte	Concentration	C	Q	Method
7440-41-7	Beryllium	0.405	J		6020_DoD

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-176162/1-A

Instrument Code: H1 Batch No.: 176385

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 240-176701/2-A

Instrument Code: H1 Batch No.: 176894

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Hg	0.00020	U		7470_DOD

FORM III-IN

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 240-176620/1-C

Instrument Code: H1 Batch No.: 176894

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Hg	0.00020	U		7470_DOD

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSA 240-176918/8 Instrument ID: I9

Lab File ID: I9041715A.asc ICS Source: MTTRICSAW_00026

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**-0.846**	
Barium		**0.280**	
Cadmium		**0.325**	
Chromium		**3.58**	
Lead		**3.62**	
Selenium		**-4.30**	
Silver		**-0.480**	
Aluminum	*500000*	*512630*	*103*
Antimony		*-1.31*	
Beryllium		*-0.283*	
Calcium	*500000*	*482240*	*96*
Cobalt		*-1.74*	
Copper		*1.98*	
Iron	*200000*	*194070*	*97*
Magnesium	*500000*	*511860*	*102*
Manganese		*0.646*	
Molybdenum		*-2.16*	
Nickel		*0.300*	
Potassium		*119*	
Sodium		*121*	
Thallium		*2.88*	
Tin		*1.86*	
Vanadium		*-1.77*	
Zinc		*2.77*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSAB 240-176918/9 Instrument ID: I9

Lab File ID: I9041715A.asc ICS Source: MTICPICSABW_00007

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Arsenic	**1000**	**1043**	**104**
Barium	**500**	**505**	**101**
Cadmium	**1000**	**1060**	**106**
Chromium	**500**	**492**	**98**
Lead	**1000**	**976**	**98**
Selenium	**1000**	**1022**	**102**
Silver	**1000**	**1093**	**109**
Aluminum	*500000*	*519630*	*104*
Antimony	*1000*	*1043*	*104*
Beryllium	*500*	*495*	*99*
Calcium	*500000*	*494340*	*99*
Cobalt	*500*	*491*	*98*
Copper	*500*	*554*	*111*
Iron	*200000*	*196170*	*98*
Magnesium	*500000*	*514120*	*103*
Manganese	*500*	*493*	*99*
Molybdenum	*1000*	*1016*	*102*
Nickel	*1000*	*976*	*98*
Potassium	*10000*	*10787*	*108*
Sodium	*10000*	*10770*	*108*
Thallium	*1000*	*992*	*99*
Tin	*500*	*497*	*99*
Vanadium	*500*	*496*	*99*
Zinc	*1000*	*962*	*96*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSA 240-176490/10 Instrument ID: I10

Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00044

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.147**	
Arsenic		**0.0680**	
Barium		**0.0410**	
Cadmium		**0.139**	
Calcium	**50000**	**48778**	**98**
Chromium		**0.666**	
Cobalt		**0.0150**	
Copper		**0.188**	
Iron	**50000**	**48400**	**97**
Lead		**0.0880**	
Magnesium	**50000**	**48580**	**97**
Nickel		**-0.0060**	
Potassium	**50000**	**48125**	**96**
Selenium		**0.121**	
Silver		**0.0090**	
Sodium	**50000**	**48202**	**96**
Thallium		**0.0060**	
Vanadium		**-0.0030**	
Zinc		**-0.0310**	
Aluminum	*50000*	*49439*	*99*
Beryllium		*0.0080*	
Boron		*0.0410*	
Manganese		*0.0480*	
Molybdenum	*1000*	*1028*	*103*
Strontium		*0.289*	
Ti	*1000*	*974*	*97*
Tin		*0.159*	
Tungsten		*0.413*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSAB 240-176490/11 Instrument ID: I10

Lab File ID: 011ICAB.d ICS Source: MTMSICSABW_00043

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**100**	**107**	**107**
Arsenic	**100**	**101**	**101**
Barium	**100**	**102**	**102**
Cadmium	**100**	**103**	**103**
Calcium	**50000**	**49575**	**99**
Chromium	**100**	**100**	**100**
Cobalt	**100**	**101**	**101**
Copper	**100**	**100**	**100**
Iron	**50000**	**49255**	**99**
Lead	**100**	**102**	**102**
Magnesium	**50000**	**48837**	**98**
Nickel	**100**	**100**	**100**
Potassium	**50000**	**48423**	**97**
Selenium	**100**	**101**	**101**
Silver	**100**	**101**	**101**
Sodium	**50000**	**48463**	**97**
Thallium	**100**	**104**	**104**
Vanadium	**100**	**98.1**	**98**
Zinc	**100**	**101**	**101**
Aluminum	*50000*	*49668*	*99*
Beryllium	*100*	*106*	*106*
Boron	*100*	*106*	*106*
Manganese	*100*	*95.6*	*96*
Molybdenum	*1100*	*1181*	*107*
Strontium	*100*	*99.5*	*100*
Ti	*1100*	*1089*	*99*
Tin	*100*	*101*	*101*
Tungsten	*100*	*101*	*101*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSA 240-176660/10 Instrument ID: I10

Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00044

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**50000**	**45595**	**91**
Magnesium	**50000**	**47910**	**96**
Manganese		**0.296**	
Sodium	**50000**	**47249**	**94**
Antimony		*0.217*	
Arsenic		*0.0350*	
Barium		*0.0400*	
Beryllium		*0.0220*	
Boron		*1.04*	
Cadmium		*0.0250*	
Calcium	*50000*	*47232*	*94*
Chromium		*0.654*	
Cobalt		*0.0280*	
Copper		*0.290*	
Iron	*50000*	*47607*	*95*
Lead		*0.0990*	
Molybdenum	*1000*	*1041*	*104*
Nickel		*0.0490*	
Potassium	*50000*	*47275*	*95*
Selenium		*-0.0180*	
Silver		*0.0110*	
Strontium		*0.317*	
Thallium		*0.0050*	
Ti	*1000*	*956*	*96*
Tin		*0.232*	
Tungsten		*0.407*	
Vanadium		*0.0440*	
Zinc		*0.979*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSAB 240-176660/11 Instrument ID: I10

Lab File ID: 011ICAB.d ICS Source: MTMSICSABW_00043

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**50000**	**47703**	**95**
Magnesium	**50000**	**49516**	**99**
Manganese	**100**	**99.0**	**99**
Sodium	**50000**	**49595**	**99**
Antimony	*100*	*109*	*109*
Arsenic	*100*	*102*	*102*
Barium	*100*	*104*	*104*
Beryllium	*100*	*111*	*111*
Boron	*100*	*110*	*110*
Cadmium	*100*	*103*	*103*
Calcium	*50000*	*49549*	*99*
Chromium	*100*	*103*	*103*
Cobalt	*100*	*103*	*103*
Copper	*100*	*102*	*102*
Iron	*50000*	*50750*	*101*
Lead	*100*	*105*	*105*
Molybdenum	*1100*	*1214*	*110*
Nickel	*100*	*103*	*103*
Potassium	*50000*	*49244*	*98*
Selenium	*100*	*101*	*101*
Silver	*100*	*102*	*102*
Strontium	*100*	*103*	*103*
Thallium	*100*	*104*	*104*
Ti	*1100*	*1099*	*100*
Tin	*100*	*101*	*101*
Tungsten	*100*	*101*	*101*
Vanadium	*100*	*101*	*101*
Zinc	*100*	*108*	*108*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSA 240-177115/11 Instrument ID: I10

Lab File ID: 011ICSA.d ICS Source: MTMSICSAW_00044

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Beryllium		**0.0120**	
Aluminum	*50000*	*47667*	*95*
Antimony		*0.218*	
Arsenic		*0.0610*	
Barium		*0.0600*	
Boron		*0.906*	
Cadmium		*0.119*	
Calcium	*50000*	*49075*	*98*
Chromium		*0.665*	
Cobalt		*0.0260*	
Copper		*0.336*	
Iron	*50000*	*49433*	*99*
Lead		*0.100*	
Magnesium	*50000*	*49308*	*99*
Manganese		*0.357*	
Molybdenum	*1000*	*1075*	*107*
Nickel		*0.115*	
Potassium	*50000*	*49452*	*99*
Selenium		*0.0850*	
Silver		*0.0080*	
Sodium	*50000*	*48900*	*98*
Strontium		*0.336*	
Thallium		*0.0030*	
Ti	*1000*	*989*	*99*
Tin		*0.320*	
Tungsten		*0.275*	
Vanadium		*0.0290*	
Zinc		*1.02*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Lab Sample ID: ICSAB 240-177115/12 Instrument ID: I10

Lab File ID: 012ICAB.d ICS Source: MTMSICSABW_00043

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Beryllium	**100**	**111**	**111**
Aluminum	*50000*	*47834*	*96*
Antimony	*100*	*106*	*106*
Arsenic	*100*	*105*	*105*
Barium	*100*	*104*	*104*
Boron	*100*	*116*	*116*
Cadmium	*100*	*106*	*106*
Calcium	*50000*	*50013*	*100*
Chromium	*100*	*101*	*101*
Cobalt	*100*	*104*	*104*
Copper	*100*	*104*	*104*
Iron	*50000*	*49899*	*100*
Lead	*100*	*103*	*103*
Magnesium	*50000*	*49743*	*99*
Manganese	*100*	*100*	*100*
Molybdenum	*1100*	*1188*	*108*
Nickel	*100*	*105*	*105*
Potassium	*50000*	*49468*	*99*
Selenium	*100*	*106*	*106*
Silver	*100*	*103*	*103*
Sodium	*50000*	*49722*	*99*
Strontium	*100*	*105*	*105*
Thallium	*100*	*102*	*102*
Ti	*1100*	*1097*	*100*
Tin	*100*	*100*	*100*
Tungsten	*100*	*99.0*	*99*
Vanadium	*100*	*101*	*101*
Zinc	*100*	*106*	*106*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: 079SB-0383-0001-IDW MS
Lab ID: 240-49236-1 MS
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG No.:
Matrix: Solid
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	1.01	J	0.0027	J	1.00	101	80-120	D	6010B
Arsenic	5.10		0.013	J	5.00	102	80-120	D	6010B
Barium	49.1	J	0.38	J	50.0	98	80-120	D	6010B
Cadmium	1.00		0.0010	J	1.00	100	80-120	D	6010B
Chromium	4.93		0.0039	J	5.00	99	80-120	D	6010B
Lead	4.85		0.022	J	5.00	96	80-120	D	6010B
Selenium	1.06	J	0.018	J	1.00	104	80-120	D	6010B
Hg	0.00531		0.00020	U	0.00500	106	50-150		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: 079SB-0385-0001-SW MS
Lab ID: 240-49236-3 MS
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9410		60	U	10000	94	63-128		6020
Antimony	103		0.43	J	100	103	44-153		6020
Arsenic	102		0.93	J	100	101	82-123		6020
Barium	119		18		100	101	45-144		6020
Beryllium	106		0.27	J	100	106	77-124		6020
Cadmium	104		0.38	J	100	103	78-117		6020
Calcium	27900		18000		10000	97	70-130		6020
Chromium	103		1.3	J	100	102	72-110		6020
Cobalt	103		0.28	J	100	103	67-114		6020
Copper	105		1.1	J	100	104	60-123		6020
Iron	10200		30	J	10000	101	22-169		6020
Lead	102		0.18	J	100	102	73-115		6020
Magnesium	39900		31000		10000	88	70-130	D	6020
Manganese	98.3		10	U	100	98	10-172		6020
Nickel	103		3.0	U	100	103	72-111		6020
Potassium	12500		2700		10000	98	70-130		6020
Selenium	97.8		0.62	J	100	97	72-148		6020
Silver	99.8		0.25	U	100	100	10-139		6020
Sodium	51200		43000		10000	83	80-120	4	6020
Thallium	103		0.22	J	100	103	69-117		6020
Vanadium	100		0.35	J	100	100	70-112		6020
Zinc	108		50	U	100	108	49-156		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: 079SB-0383-0001-IDW PDS Lab ID: 240-49236-1 PDS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	0.109	J	0.0027	J	0.100	106	80-120		6010B
Arsenic	1.27	J	0.013	J	1.20	105	80-120	D	6010B
Barium	0.429	J	0.38	J	0.0500	98	80-120		6010B
Cadmium	0.368		0.0010	J	0.350	105	80-120		6010B
Chromium	0.209	J	0.0039	J	0.200	102	80-120		6010B
Lead	0.170	J	0.022	J	0.150	98	80-120		6010B
Selenium	1.76		0.018	J	1.60	109	80-120	D	6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: 079SB-0385-0001-SW PDS Lab ID: 240-49236-3 PDS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9680		60	U	10000	97	80-120		6020
Antimony	110		0.43	J	100	109	80-120		6020
Arsenic	1040		0.93	J	1000	104	80-120		6020
Barium	1160		18		1000	115	80-120		6020
Beryllium	1120		0.27	J	1000	112	80-120		6020
Cadmium	1160		0.38	J	1000	116	80-120		6020
Calcium	29700		18000		10000	115	80-120		6020
Chromium	1050		1.3	J	1000	104	80-120		6020
Cobalt	1060		0.28	J	1000	106	80-120		6020
Copper	1080		1.1	J	1000	108	80-120		6020
Iron	10400		30	J	10000	104	80-120		6020
Lead	1030		0.18	J	1000	103	80-120		6020
Magnesium	79600		31000		50000	97	80-120	D	6020
Manganese	1050		10	U	1000	105	80-120		6020
Nickel	1080		3.0	U	1000	108	80-120		6020
Potassium	12700		2700		10000	100	80-120		6020
Selenium	1030		0.62	J	1000	103	80-120		6020
Silver	102		0.25	U	100	102	80-120		6020
Sodium	53900		43000		10000	109	80-120		6020
Thallium	257		0.22	J	250	103	80-120		6020
Vanadium	1050		0.35	J	1000	105	80-120		6020
Zinc	1100		50	U	1000	110	80-120		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

6-IN
DUPLICATES
METALS - TCLP

Client ID: 079SB-0383-0001-IDW DU Lab ID: 240-49236-1 DU

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.50	0.0027	J	0.00285	J	5		6010B
Arsenic	2.0	0.013	J	0.0164	J	22	D	6010B
Barium	10	0.38	J	0.385	J	1		6010B
Cadmium	0.10	0.0010	J	0.000918	J	13		6010B
Chromium	0.50	0.0039	J	0.00359	J	9		6010B
Lead	0.50	0.022	J	0.0226	J	1		6010B
Selenium	1.0	0.018	J	0.040	U	NC		6010B
Hg	0.0020	0.00020	U	0.00020	U	NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS - TOTAL RECOVERABLE

Client ID: 079SB-0385-0001-SW DU
Lab ID: 240-49236-3 DU
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG No.:
% Solids for Sample:
% Solids for Duplicate:
Matrix: Water
Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	60	60	U	60	U	NC		6020
Antimony	2.0	0.43	J	0.328	J	26		6020
Arsenic	5.0	0.93	J	0.877	J	5		6020
Barium	5.0	18		17.1		8		6020
Beryllium	1.0	0.27	J	0.303	J	11		6020
Cadmium	2.0	0.38	J	0.302	J	23		6020
Calcium	2000	18000		17100		7		6020
Chromium	6.0	1.3	J	1.16	J	12		6020
Cobalt	1.0	0.28	J	0.193	J	35		6020
Copper	4.0	1.1	J	0.965	J	12		6020
Iron	150	30	J	26.7	J	11		6020
Lead	1.0	0.18	J	0.144	J	22		6020
Magnesium	5000	31000		30400		2	D	6020
Manganese	10	10	U	10	U	NC		6020
Nickel	5.0	3.0	U	3.0	U	NC		6020
Potassium	1000	2700		2540		5		6020
Selenium	5.0	0.62	J	0.651	J	5		6020
Silver	1.0	0.25	U	0.25	U	NC		6020
Sodium	1000	43000		40800		5		6020
Thallium	2.0	0.22	J	0.111	J	66		6020
Vanadium	5.0	0.35	J	1.5	U	NC		6020
Zinc	50	50	U	50	U	NC		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-176697/3-A

Lab Name: TestAmerica Canton Job No.: 240-49236-1

Sample Matrix: Water LCS Source: MTAGSPIKEW_00047

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Silver	0.0500	0.0493	J	99	80	120		6010B
Arsenic	2.00	1.94		97	80	120		6010B
Barium	2.00	1.83	J	91	80	120		6010B
Cadmium	0.0500	0.0476	J	95	80	120		6010B
Chromium	0.200	0.185	J	92	80	120		6010B
Lead	0.500	0.449	J	90	80	120		6010B
Selenium	2.00	1.96		98	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-176157/2-A

Lab Name: TestAmerica Canton Job No.: 240-49236-1

Sample Matrix: Water LCS Source: MTICPMSB_00022

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	108		108	80	120		6020
Arsenic	1000	991		99	80	120		6020
Barium	1000	1120		112	80	120		6020
Cadmium	1000	1140		114	80	120		6020
Calcium	10000	9020		90	80	120		6020
Chromium	1000	1060		106	80	120		6020
Cobalt	1000	1090		109	80	120		6020
Copper	1000	1110		111	80	120		6020
Iron	10000	10600		106	80	120		6020
Lead	1000	1030		103	80	120		6020
Magnesium	10000	10300		103	80	120		6020
Nickel	1000	1120		112	80	120		6020
Potassium	10000	10100		101	80	120		6020
Selenium	1000	996		100	80	120		6020
Silver	100	103		103	80	120		6020
Sodium	10000	10300		103	80	120		6020
Thallium	250	256		103	80	120		6020
Vanadium	1000	1040		104	80	120		6020
Zinc	1000	1120		112	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-176157/2-A

Lab Name: TestAmerica Canton Job No.: 240-49236-1

Sample Matrix: Water LCS Source: MTICPMS2_00020

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10000	9640		96	80	120		6020
Magnesium	10000	10200		102	80	120		6020
Manganese	1000	1040		104	80	120		6020
Sodium	10000	10100		101	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-176157/2-A

Lab Name: TestAmerica Canton Job No.: 240-49236-1

Sample Matrix: Water LCS Source: MTICPMSA_00022

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	1000	1100		110	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-176162/2-A

Lab Name: TestAmerica Canton Job No.: 240-49236-1

Sample Matrix: Water LCS Source: MTHGCALW_00879

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.67		93	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-176701/3-A

Lab Name: TestAmerica Canton Job No.: 240-49236-1

Sample Matrix: Water LCS Source: MTHGCALW_00883

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Hg	0.00500	0.00501		100	50	150		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 240-49236-1

SDG No:

Lab Name: TestAmerica Canton Job No: 240-49236-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.0027	J	0.025	U	NC		6010B
Arsenic	0.013	J	0.0694	J	NC	D	6010B
Barium	0.38	J	0.387	J	NC	D	6010B
Cadmium	0.0010	J	0.00107	J	NC	D	6010B
Chromium	0.0039	J	0.00739	J	NC	D	6010B
Lead	0.022	J	0.0248	J	NC	D	6010B
Selenium	0.018	J	0.20	U	NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 240-49236-3

SDG No:

Lab Name: TestAmerica Canton Job No: 240-49236-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	300	U	111	J	NC	D	6020
Antimony	0.43	J	5.0	U	NC		6020
Arsenic	0.93	J	5.0	U	NC		6020
Barium	18		17.8	J	NC	D	6020
Beryllium	0.27	J	0.875	J	NC	D	6020
Cadmium	0.38	J	0.340	J	NC	D	6020
Calcium	18000		18400		NC	D	6020
Chromium	1.3	J	1.33	J	NC	D	6020
Cobalt	0.28	J	0.135	J	NC	D	6020
Copper	1.1	J	20	U	NC		6020
Iron	30	J	500	U	NC		6020
Lead	0.18	J	2.5	U	NC		6020
Magnesium	31000		32300		NC	D	6020
Manganese	50	U	50	U	NC		6020
Nickel	3.0	U	15	U	NC		6020
Potassium	2700		2650	J	NC	D	6020
Selenium	0.62	J	2.5	U	NC		6020
Silver	0.25	U	1.3	U	NC		6020
Sodium	44000		44100		NC	D	6020
Thallium	0.22	J	7.5	U	NC		6020
Vanadium	0.35	J	7.5	U	NC		6020
Zinc	50	U	250	U	NC		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: I9

Method: 6010B DL Date: 09/15/2014 16:46

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (ug/L)
Arsenic	189.042	0.5	2.9
Barium	493.409	10	1
Cadmium	226.502	0.1	0.14
Chromium	267.716	0.5	0.55
Lead	220.353	0.5	1.9
Selenium	196.026	0.25	4
Silver	328.068	0.5	0.92

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: I9

Method: 6010B XMDL Date: 09/15/2014 16:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic	189.042	10	2.9
Barium	493.409	10000	1
Cadmium	226.502	2	0.14
Chromium	267.716	5	0.55
Lead	220.353	5	1.9
Selenium	196.026	10	4
Silver	328.068	5	0.92

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010B DL Date: 09/15/2014 16:46

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (ug/L)
Arsenic	189.042	0.5	2.9
Barium	493.409	10	1
Cadmium	226.502	0.1	0.14
Chromium	267.716	0.5	0.55
Lead	220.353	0.5	1.9
Selenium	196.026	0.25	4
Silver	328.068	0.5	0.92

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010B XMDL Date: 09/15/2014 16:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic	189.042	10	2.9
Barium	493.409	10000	1
Cadmium	226.502	2	0.14
Chromium	267.716	5	0.55
Lead	220.353	5	1.9
Selenium	196.026	10	4
Silver	328.068	5	0.92

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: I10

Method: 6020 DL Date: 09/15/2014 17:25

Prep Method: 3005A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Aluminum	27.00	60	9
Antimony	121.00	2	0.16
Arsenic	75.00	5	0.18
Barium	137.00	5	1.1
Beryllium	9.00	1	0.053
Cadmium	111.00	2	0.061
Calcium	43.00	2000	240
Chromium	52.00	6	0.2
Cobalt	59.00	1	0.021
Copper	65.00	4	0.75
Iron	56.00	150	16
Lead	208.00	1	0.11
Magnesium	25.00	1000	48
Manganese	55.00	10	1.1
Nickel	60.00	5	0.23
Potassium	39.00	1000	30
Selenium	78.00	5	0.25
Silver	107.00	1	0.02
Sodium	23.00	1000	68
Thallium	205.00	2	0.074
Vanadium	51.00	5	0.23
Zinc	66.00	50	7.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: I10

Method: 6020 XMDL Date: 09/15/2014 17:25

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27.00	60	9
Antimony	121.00	2	0.16
Arsenic	75.00	5	0.18
Barium	137.00	5	1.1
Beryllium	9.00	1	0.053
Cadmium	111.00	2	0.061
Calcium	43.00	2000	240
Chromium	52.00	6	0.2
Cobalt	59.00	1	0.021
Copper	65.00	4	0.75
Iron	56.00	150	16
Lead	208.00	1	0.11
Magnesium	25.00	1000	48
Manganese	55.00	10	1.1
Nickel	60.00	5	0.23
Potassium	39.00	1000	30
Selenium	78.00	5	0.25
Silver	107.00	1	0.02
Sodium	23.00	1000	68
Thallium	205.00	2	0.074
Vanadium	51.00	5	0.23
Zinc	66.00	50	7.3

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A DL Date: 12/03/2014 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 09/17/2014 14:19

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7470A DL Date: 12/03/2014 00:00

Prep Method: 7470A

Leach Method: 1311

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Hg	253.7	0.002	0.00009

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7470A XMDL Date: 02/16/2010 09:13

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Hg	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A DL Date: 12/03/2014 00:00

Prep Method: 7470A

Leach Method: 1311

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Hg	253.7	0.002	0.00009

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 02/16/2010 09:13

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Hg	253.7	0.2	0.12

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG No.:

ICP-AES Instrument ID: I9 Date: 03/24/2015

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.010824					0.075184
Antimony		-0.000071			-0.000195			-0.000027							0.002500
Arsenic		0.000015			-0.000057	0.001800			-0.000355	0.003582					
Barium															
Beryllium															0.000431
Boron															
Cadmium			0.006473					-0.000005							
Calcium															
Chromium															
Cobalt													0.002117		
Copper				0.000023	0.000140			0.000007							
Iron															
Lead		-0.000133					0.000315	0.000039			0.000066	0.000060			
Lithium				0.000078											
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000071							
Potassium															
Selenium									0.000338						
Silver															
Sodium															
Strontium															
Thallium					0.001660				0.001238				-0.000834		-0.007071
Tin															
Titanium															
Vanadium								0.000014							
Zinc						-0.000592									

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-49236-1

SDG No.:

Instrument ID: I9 Date: 03/11/2015 10:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2000	6010B
Arsenic		5000	6010B
Barium		25000	6010B
Cadmium		2000	6010B
Chromium		20000	6010B
Lead		15000	6010B
Selenium		10000	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-49236-1

SDG No.:

Instrument ID: I10 Date: 10/20/2014 13:19

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Aluminum		200000	6020
Antimony		300	6020
Arsenic		10000	6020
Barium		10000	6020
Beryllium		10000	6020
Cadmium		4000	6020
Calcium		500000	6020
Chromium		10000	6020
Cobalt		10000	6020
Copper		10000	6020
Iron		200000	6020
Lead		4000	6020
Magnesium		500000	6020
Manganese		10000	6020
Nickel		10000	6020
Potassium		500000	6020
Selenium		10000	6020
Silver		300	6020
Sodium		500000	6020
Thallium		5000	6020
Vanadium		10000	6020
Zinc		10000	6020

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-49236-1

SDG No.:

Instrument ID: H1 Date: 12/10/2013 15:54

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Hg		10	7470A
Mercury		10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 240-176620/1-B	04/16/2015 09:57	176697		50	50
MB 240-176697/2-A	04/16/2015 09:57	176697		50	50
LCS 240-176697/3-A	04/16/2015 09:57	176697		50	50
240-49236-1	04/16/2015 09:57	176697		50	50
240-49236-1 DU	04/16/2015 09:57	176697		50	50
240-49236-1 MS	04/16/2015 09:57	176697		50	50
240-49236-2	04/16/2015 09:57	176697		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-176157/1-A	04/13/2015 10:08	176157		50	50
LCS 240-176157/2-A	04/13/2015 10:08	176157		50	50
240-49236-3	04/13/2015 10:08	176157		50	50
240-49236-3 DU	04/13/2015 10:08	176157		50	50
240-49236-3 MS	04/13/2015 10:08	176157		50	50
240-49236-4	04/13/2015 10:08	176157		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-176162/1-A	04/13/2015 14:00	176162		50	50
LCS 240-176162/2-A	04/13/2015 14:00	176162		50	50
240-49236-3	04/13/2015 14:00	176162		50	50
240-49236-4	04/13/2015 14:00	176162		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 240-176620/1-C	04/16/2015 14:00	176701		50	50
MB 240-176701/2-A	04/16/2015 14:00	176701		50	50
LCS 240-176701/3-A	04/16/2015 14:00	176701		50	50
240-49236-1	04/16/2015 14:00	176701		50	50
240-49236-1 DU	04/16/2015 14:00	176701		50	50
240-49236-1 MS	04/16/2015 14:00	176701		50	50
240-49236-2	04/16/2015 14:00	176701		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I9 Analysis Method: 6010B

Start Date: 04/17/2015 06:14 End Date: 04/17/2015 22:14

Lab Sample Id	D/F	Type	Time	Analytes																										
				Ag	As	Ba	Cd	Cr	Pb	Se																				
ICIS 240-176918/1	1		06:14	X	X	X	X	X	X	X																				
CALSTD 240-176918/2 IC			06:18	X	X	X	X	X	X	X																				
CALSTD 240-176918/3 IC			06:22	X	X	X	X	X	X	X																				
ICV 240-176918/4	1		06:28	X	X	X	X	X	X	X																				
ICB 240-176918/5	1		06:31	X	X	X	X	X	X	X																				
CRI 240-176918/6	1		06:36	X	X	X	X	X	X	X																				
ZZZZZZ			06:40																											
ICSA 240-176918/8	1		06:44	X	X	X	X	X	X	X																				
ICSAB 240-176918/9	1		06:48	X	X	X	X	X	X	X																				
CCV 240-176918/10			06:52																											
CCB 240-176918/11			06:56																											
ZZZZZZ			07:00																											
ZZZZZZ			07:04																											
ZZZZZZ			07:08																											
ZZZZZZ			07:12																											
ZZZZZZ			07:17																											
ZZZZZZ			07:21																											
CCV 240-176918/18			07:25																											
CCB 240-176918/19			07:29																											
ZZZZZZ			07:50																											
ZZZZZZ			07:54																											
ZZZZZZ			07:58																											
ZZZZZZ			08:02																											
CCV 240-176918/24	1		08:06	X	X	X	X	X	X	X																				
CCB 240-176918/25	1		08:10	X	X	X	X	X	X	X																				
CRI 240-176918/26			08:14																											
ZZZZZZ			08:18																											
LB 240-176620/1-B	1	P	08:22	X	X	X	X	X	X	X																				
MB 240-176697/2-A	1	T	08:27	X	X	X	X	X	X	X																				
LCS 240-176697/3-A	1	T	08:31	X	X	X	X	X	X	X																				
240-49236-1	1	P	08:35	X		X	X	X	X																					
240-49236-1 SD	5	P	08:39	X		X	X	X	X																					
240-49236-1 PDS	1	P	08:43	X		X	X	X	X																					
240-49236-1 DU	1	P	08:47	X		X	X	X	X																					
240-49236-1 MS	5	P	08:54	X		X	X	X	X																					
CCV 240-176918/36	1		08:58	X	X	X	X	X	X	X																				
CCB 240-176918/37	1		09:02	X	X	X	X	X	X	X																				
240-49236-2	1	P	09:06	X	X	X	X	X	X	X																				
240-49236-1	4	P	09:10		X					X																				
240-49236-1 SD	20	P	09:14		X					X																				
240-49236-1 PDS	4	P	09:19		X					X																				
240-49236-1 DU	4	P	09:23		X					X																				

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13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I9 Analysis Method: 6010B

Start Date: 04/17/2015 06:14 End Date: 04/17/2015 22:14

Lab Sample Id	D/F	Type	Time	Analytes																										
				Ag	As	Ba	Cd	Cr	Pb	Se																				
240-49236-1 MS	5	P	09:27		X					X																				
CRI 240-176918/44	1		09:31	X	X	X	X	X	X	X																				
ZZZZZZ			09:35																											
ZZZZZZ			09:40																											
ZZZZZZ			09:44																											
CCV 240-176918/48	1		09:47	X	X	X	X	X	X	X																				
CCB 240-176918/49	1		09:51	X	X	X	X	X	X	X																				
ZZZZZZ			09:55																											
ZZZZZZ			09:59																											
ZZZZZZ			10:03																											
ZZZZZZ			10:08																											
ZZZZZZ			10:11																											
ZZZZZZ			10:15																											
ZZZZZZ			10:19																											
CRI 240-176918/57			10:23																											
ZZZZZZ			10:27																											
ZZZZZZ			10:31																											
CCV 240-176918/60			10:36																											
CCB 240-176918/61			10:39																											
ZZZZZZ			10:44																											
ZZZZZZ			10:48																											
ZZZZZZ			10:51																											
ZZZZZZ			10:55																											
ZZZZZZ			11:00																											
ZZZZZZ			11:03																											
ZZZZZZ			11:07																											
ZZZZZZ			11:11																											
ZZZZZZ			11:15																											
ZZZZZZ			11:19																											
CCV 240-176918/72			11:23																											
CCB 240-176918/73			11:27																											
ZZZZZZ			11:31																											
ZZZZZZ			11:35																											
ZZZZZZ			11:39																											
ZZZZZZ			11:43																											
ZZZZZZ			11:47																											
ZZZZZZ			11:51																											
ZZZZZZ			11:55																											
ZZZZZZ			11:58																											
ZZZZZZ			12:03																											
ZZZZZZ			12:07																											
CCV 240-176918/84			12:11																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I9 Analysis Method: 6010B

Start Date: 04/17/2015 06:14 End Date: 04/17/2015 22:14

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
CCB 240-176918/85			12:14																									
ZZZZZZ			12:19																									
ZZZZZZ			12:23																									
ZZZZZZ			12:27																									
ZZZZZZ			12:31																									
ZZZZZZ			12:35																									
ZZZZZZ			12:39																									
ZZZZZZ			12:42																									
ZZZZZZ			12:47																									
ZZZZZZ			12:51																									
ZZZZZZ			12:55																									
CCV 240-176918/96			12:59																									
CCB 240-176918/97			13:02																									
ZZZZZZ			13:07																									
ZZZZZZ			13:11																									
ZZZZZZ			13:15																									
ZZZZZZ			13:19																									
ZZZZZZ			13:23																									
ZZZZZZ			13:27																									
ZZZZZZ			13:31																									
ZZZZZZ			13:35																									
ZZZZZZ			13:39																									
ZZZZZZ			13:43																									
CCV 240-176918/108			13:47																									
CCB 240-176918/109			13:50																									
ZZZZZZ			13:55																									
ZZZZZZ			13:58																									
ZZZZZZ			14:02																									
ZZZZZZ			14:06																									
ZZZZZZ			14:10																									
ZZZZZZ			14:14																									
ZZZZZZ			14:18																									
ZZZZZZ			14:22																									
ZZZZZZ			14:26																									
ZZZZZZ			14:30																									
CCV 240-176918/120			14:34																									
CCB 240-176918/121			14:38																									
ZZZZZZ			14:42																									
ZZZZZZ			14:46																									
ZZZZZZ			14:50																									
ZZZZZZ			14:54																									
ZZZZZZ			14:58																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I9 Analysis Method: 6010B

Start Date: 04/17/2015 06:14 End Date: 04/17/2015 22:14

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
ZZZZZZ			15:03																									
ZZZZZZ			15:07																									
ZZZZZZ			15:11																									
ZZZZZZ			15:15																									
ZZZZZZ			15:19																									
CCV 240-176918/132			15:23																									
CCB 240-176918/133			15:27																									
ZZZZZZ			15:31																									
ZZZZZZ			15:35																									
ZZZZZZ			15:39																									
ZZZZZZ			15:43																									
ZZZZZZ			15:47																									
ZZZZZZ			15:51																									
ZZZZZZ			15:55																									
ZZZZZZ			15:59																									
ZZZZZZ			16:03																									
ZZZZZZ			16:08																									
CCV 240-176918/144			16:12																									
CCB 240-176918/145			16:15																									
ZZZZZZ			16:20																									
ZZZZZZ			16:24																									
ZZZZZZ			16:28																									
ZZZZZZ			16:32																									
ZZZZZZ			16:36																									
ZZZZZZ			16:40																									
ZZZZZZ			16:44																									
ZZZZZZ			16:48																									
ZZZZZZ			16:52																									
ZZZZZZ			16:56																									
CCV 240-176918/156			17:00																									
CCB 240-176918/157			17:04																									
ZZZZZZ			17:08																									
ZZZZZZ			17:13																									
ZZZZZZ			17:16																									
ZZZZZZ			17:20																									
ZZZZZZ			17:24																									
ZZZZZZ			17:28																									
ZZZZZZ			17:32																									
ZZZZZZ			17:36																									
ZZZZZZ			17:40																									
ZZZZZZ			17:44																									
CCV 240-176918/168			17:48																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I9 Analysis Method: 6010B

Start Date: 04/17/2015 06:14 End Date: 04/17/2015 22:14

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
CCB 240-176918/169			17:52																									
ZZZZZZ			17:56																									
ZZZZZZ			18:00																									
ZZZZZZ			18:04																									
ZZZZZZ			18:08																									
ZZZZZZ			18:12																									
ZZZZZZ			18:16																									
ZZZZZZ			18:20																									
ZZZZZZ			18:24																									
ZZZZZZ			18:27																									
ZZZZZZ			18:32																									
CCV 240-176918/180			18:35																									
CCB 240-176918/181			18:39																									
ZZZZZZ			18:43																									
ZZZZZZ			18:47																									
ZZZZZZ			18:52																									
ZZZZZZ			18:56																									
ZZZZZZ			19:00																									
ZZZZZZ			19:04																									
ZZZZZZ			19:08																									
ZZZZZZ			19:12																									
ZZZZZZ			19:16																									
ZZZZZZ			19:21																									
CCV 240-176918/192			19:25																									
CCB 240-176918/193			19:28																									
ZZZZZZ			19:33																									
ZZZZZZ			19:36																									
ZZZZZZ			19:40																									
ZZZZZZ			19:44																									
ZZZZZZ			19:48																									
ZZZZZZ			19:52																									
ZZZZZZ			19:55																									
ZZZZZZ			20:00																									
ZZZZZZ			20:04																									
ZZZZZZ			20:08																									
CCV 240-176918/204			20:12																									
CCB 240-176918/205			20:16																									
ZZZZZZ			20:20																									
ZZZZZZ			20:24																									
ZZZZZZ			20:28																									
ZZZZZZ			20:32																									
ZZZZZZ			20:36																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I9 Analysis Method: 6010B

Start Date: 04/17/2015 06:14 End Date: 04/17/2015 22:14

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
ZZZZZZ			20:40																									
ZZZZZZ			20:44																									
ZZZZZZ			20:48																									
ZZZZZZ			20:52																									
ZZZZZZ			20:56																									
CCV 240-176918/216			21:00																									
CCB 240-176918/217			21:04																									
ZZZZZZ			21:08																									
ZZZZZZ			21:12																									
ZZZZZZ			21:17																									
ZZZZZZ			21:21																									
ZZZZZZ			21:25																									
ZZZZZZ			21:29																									
ZZZZZZ			21:33																									
ZZZZZZ			21:37																									
ZZZZZZ			21:41																									
ZZZZZZ			21:46																									
CCV 240-176918/228			21:50																									
CCB 240-176918/229			21:53																									
ZZZZZZ			21:58																									
ZZZZZZ			22:02																									
ZZZZZZ			22:06																									
CCV 240-176918/233			22:11																									
CCB 240-176918/234			22:14																									

Prep Types:
P = TCLP
T = Total/NA

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13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/14/2015 09:04 End Date: 04/14/2015 17:00

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Na	Ni	Pb	Sb	Se	Tl	V	Zn							
ZZZZZZ			09:04																									
ICIS 240-176490/2			09:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
STD1 240-176490/3 IC	1		09:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
STD2 240-176490/4 IC	1		09:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
STD3 240-176490/5 IC	1		09:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
STD4 240-176490/6 IC	1		09:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICV 240-176490/7	1		09:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICB 240-176490/8	1		09:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CRI 240-176490/9	1		09:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICSA 240-176490/10	1		09:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ICSAB 240-176490/11	1		09:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCV 240-176490/12			09:46																									
CCB 240-176490/13			09:50																									
ZZZZZZ			10:06																									
ZZZZZZ			10:10																									
ZZZZZZ			10:14																									
ZZZZZZ			10:18																									
ZZZZZZ			10:22																									
ZZZZZZ			10:26																									
ZZZZZZ			10:32																									
CCV 240-176490/21	1		10:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-176490/22	1		10:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CRI 240-176490/23			10:43																									
ZZZZZZ			10:47																									
ZZZZZZ			10:51																									
ZZZZZZ			10:55																									
ZZZZZZ			10:58																									
ZZZZZZ			11:02																									
ZZZZZZ			11:05																									
MB 240-176157/1-A	1	R	11:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
LCS 240-176157/2-A	1	R	11:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
240-49236-3	1	R	11:16	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X							
CCV 240-176490/33	1		11:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-176490/34	1		11:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
240-49236-3 SD	5	R	11:28	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X							
240-49236-3 PDS	1	R	11:32	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X							
240-49236-3 DU	1	R	11:35	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X							
240-49236-3 MS	1	R	11:39	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X							
240-49236-4	1	R	11:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCV 240-176490/40	1		11:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-176490/41	1		11:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CRI 240-176490/42	1		11:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							

FORM XIII-IN

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/14/2015 09:04 End Date: 04/14/2015 17:00

Lab Sample Id	D/F	Type	Time	Analytes																										
				Ag	As	Ba	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Na	Ni	Pb	Sb	Se	Tl	V	Zn								
ZZZZZZ			11:58																											
ZZZZZZ			12:02																											
ZZZZZZ			12:06																											
ZZZZZZ			12:09																											
ZZZZZZ			12:13																											
ZZZZZZ			12:17																											
ZZZZZZ			12:20																											
ZZZZZZ			12:24																											
ZZZZZZ			12:28																											
CCV 240-176490/52			12:32																											
CCB 240-176490/53			12:36																											
ZZZZZZ			12:39																											
ZZZZZZ			12:43																											
ZZZZZZ			12:47																											
ZZZZZZ			12:51																											
ZZZZZZ			12:54																											
ZZZZZZ			12:58																											
ZZZZZZ			13:01																											
ZZZZZZ			13:05																											
ZZZZZZ			13:09																											
ZZZZZZ			13:13																											
CCV 240-176490/64			13:17																											
CCB 240-176490/65			13:20																											
ZZZZZZ			13:24																											
ZZZZZZ			13:28																											
ZZZZZZ			13:32																											
ZZZZZZ			13:36																											
ZZZZZZ			13:40																											
ZZZZZZ			13:43																											
ZZZZZZ			13:47																											
ZZZZZZ			13:51																											
ZZZZZZ			13:55																											
ZZZZZZ			13:59																											
CCV 240-176490/76			14:03																											
CCB 240-176490/77			14:06																											
ZZZZZZ			14:10																											
ZZZZZZ			14:14																											
ZZZZZZ			14:18																											
ZZZZZZ			14:22																											
ZZZZZZ			14:26																											
ZZZZZZ			14:29																											
ZZZZZZ			14:33																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/14/2015 09:04 End Date: 04/14/2015 17:00

Lab Sample Id	D/F	Type	Time	Analytes																										
				Ag	As	Ba	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Na	Ni	Pb	Sb	Se	Tl	V	Zn								
ZZZZZZ			14:37																											
ZZZZZZ			14:41																											
ZZZZZZ			14:44																											
CCV 240-176490/88			14:48																											
CCB 240-176490/89			14:51																											
ZZZZZZ			14:55																											
ZZZZZZ			14:59																											
ZZZZZZ			15:03																											
ZZZZZZ			15:06																											
ZZZZZZ			15:10																											
ZZZZZZ			15:14																											
ZZZZZZ			15:18																											
ZZZZZZ			15:22																											
ZZZZZZ			15:25																											
ZZZZZZ			15:29																											
CCV 240-176490/100			15:33																											
CCB 240-176490/101			15:37																											
ZZZZZZ			15:41																											
ZZZZZZ			15:44																											
ZZZZZZ			15:48																											
ZZZZZZ			15:52																											
ZZZZZZ			15:56																											
ZZZZZZ			16:00																											
ZZZZZZ			16:04																											
ZZZZZZ			16:07																											
ZZZZZZ			16:11																											
ZZZZZZ			16:15																											
CCV 240-176490/112			16:19																											
CCB 240-176490/113			16:22																											
ZZZZZZ			16:26																											
ZZZZZZ			16:30																											
ZZZZZZ			16:34																											
ZZZZZZ			16:37																											
ZZZZZZ			16:41																											
ZZZZZZ			16:45																											
ZZZZZZ			16:48																											
ZZZZZZ			16:52																											
CCV 240-176490/122			16:56																											
CCB 240-176490/123			17:00																											

Prep Types:
R = Total Recoverable

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/15/2015 10:04 End Date: 04/15/2015 16:02

Lab Sample Id	D/F	Type	Time	Analytes																									
				Al	Mg	Mn	Na																						
ZZZZZZ			10:04																										
ICIS 240-176660/2			10:08	X	X	X	X																						
STD1 240-176660/3 IC	1		10:12	X	X	X	X																						
STD2 240-176660/4 IC	1		10:15	X	X	X	X																						
STD3 240-176660/5 IC	1		10:19	X	X	X	X																						
STD4 240-176660/6 IC	1		10:23	X	X	X	X																						
ICV 240-176660/7	1		10:27	X	X	X	X																						
ICB 240-176660/8	1		10:31	X	X	X	X																						
CRI 240-176660/9	1		10:35	X	X	X	X																						
ICSA 240-176660/10	1		10:38	X	X	X	X																						
ICSAB 240-176660/11	1		10:42	X	X	X	X																						
CCV 240-176660/12			10:46																										
CCB 240-176660/13			10:50																										
CCV 240-176660/14			10:54																										
CCB 240-176660/15			10:58																										
ZZZZZZ			11:02																										
ZZZZZZ			11:06																										
ZZZZZZ			11:10																										
ZZZZZZ			11:13																										
CCV 240-176660/20			11:17																										
CCB 240-176660/21			11:21																										
ZZZZZZ			11:25																										
ZZZZZZ			11:29																										
ZZZZZZ			11:33																										
ZZZZZZ			11:36																										
ZZZZZZ			11:40																										
ZZZZZZ			11:44																										
ZZZZZZ			11:48																										
ZZZZZZ			11:52																										
CCV 240-176660/30			11:55																										
CCB 240-176660/31			11:59																										
ZZZZZZ			12:03																										
ZZZZZZ			12:07																										
ZZZZZZ			12:10																										
ZZZZZZ			12:14																										
ZZZZZZ			12:18																										
ZZZZZZ			12:21																										
ZZZZZZ			12:25																										
ZZZZZZ			12:29																										
ZZZZZZ			12:33																										
ZZZZZZ			12:36																										
CCV 240-176660/42			12:40																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/15/2015 10:04 End Date: 04/15/2015 16:02

Lab Sample Id	D/F	Type	Time	Analytes																										
				Al	Mg	Mn	Na																								
CCB 240-176660/43			12:44																											
CCV 240-176660/44	1		12:48	X	X	X	X																							
CCB 240-176660/45	1		12:52	X	X	X	X																							
ZZZZZZ			12:56																											
MB 240-176157/1-A	1	R	12:59	X	X	X	X																							
LCS 240-176157/2-A	1	R	13:03	X	X	X	X																							
240-49236-3	1	R	13:07	X		X	X																							
240-49236-3 SD	5	R	13:10	X		X	X																							
ZZZZZZ			13:16																											
240-49236-3 PDS	1	R	13:20	X		X	X																							
240-49236-3 DU	1	R	13:24	X		X	X																							
240-49236-3 MS	1	R	13:27	X		X	X																							
240-49236-4	1	R	13:31	X		X																								
CCV 240-176660/56	1		13:35	X	X	X	X																							
CCB 240-176660/57	1		13:39	X	X	X	X																							
240-49236-3	5	R	13:43		X																									
240-49236-3 SD	25	R	13:47		X																									
240-49236-3 PDS	5	R	13:51		X																									
240-49236-3 DU	5	R	13:54		X																									
240-49236-3 MS	5	R	13:58		X																									
CCV 240-176660/63	1		14:02	X	X	X	X																							
CCB 240-176660/64	1		14:06	X	X	X	X																							
CRI 240-176660/65	1		14:10	X	X	X	X																							
ZZZZZZ			14:13																											
ZZZZZZ			14:17																											
ZZZZZZ			14:21																											
ZZZZZZ			14:25																											
ZZZZZZ			14:29																											
ZZZZZZ			14:32																											
ZZZZZZ			14:36																											
ZZZZZZ			14:39																											
ZZZZZZ			14:43																											
CCV 240-176660/75			14:47																											
CCB 240-176660/76			14:51																											
ZZZZZZ			14:55																											
ZZZZZZ			14:58																											
ZZZZZZ			15:02																											
ZZZZZZ			15:06																											
ZZZZZZ			15:10																											
ZZZZZZ			15:14																											
ZZZZZZ			15:18																											
ZZZZZZ			15:21																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/15/2015 10:04 End Date: 04/15/2015 16:02

Lab Sample Id	D/F	Type	Time	Analytes																									
				Al	Mg	Mn	Na																						
ZZZZZZ			15:25																										
ZZZZZZ			15:29																										
CCV 240-176660/87			15:33																										
CCB 240-176660/88			15:37																										
ZZZZZZ			15:40																										
ZZZZZZ			15:44																										
ZZZZZZ			15:48																										
ZZZZZZ			15:51																										
ZZZZZZ			15:55																										
CCV 240-176660/94			15:58																										
CCB 240-176660/95			16:02																										

Prep Types:
R = Total Recoverable

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																								
				Be																								
ZZZZZZ			10:21																									
ICIS 240-177115/2			10:25	X																								
STD1 240-177115/3 IC	1		10:29	X																								
STD2 240-177115/4 IC	1		10:32	X																								
STD3 240-177115/5 IC	1		10:36	X																								
STD4 240-177115/6 IC	1		10:40	X																								
ICV 240-177115/7	1		10:44	X																								
ICB 240-177115/8	1		10:48	X																								
ZZZZZZ			10:51																									
CRI 240-177115/10	1		10:55	X																								
ICSA 240-177115/11	1		10:59	X																								
ICSAB 240-177115/12	1		11:04	X																								
CCV 240-177115/13			11:08																									
CCB 240-177115/14			11:12																									
ZZZZZZ			11:16																									
ZZZZZZ			11:19																									
CCV 240-177115/17			11:23																									
CCB 240-177115/18			11:27																									
ZZZZZZ			11:31																									
ZZZZZZ			11:35																									
ZZZZZZ			11:39																									
ZZZZZZ			11:42																									
ZZZZZZ			11:46																									
CCV 240-177115/24			11:50																									
CCB 240-177115/25			11:54																									
ZZZZZZ			12:15																									
ZZZZZZ			12:19																									
CCV 240-177115/28			12:23																									
CCB 240-177115/29			12:27																									
ZZZZZZ			12:31																									
ZZZZZZ			12:35																									
ZZZZZZ			12:39																									
ZZZZZZ			12:42																									
ZZZZZZ			12:46																									
ZZZZZZ			12:50																									
ZZZZZZ			12:54																									
ZZZZZZ			12:57																									
ZZZZZZ			13:01																									
CCV 240-177115/39			13:05																									
CCB 240-177115/40			13:09																									
CRI 240-177115/41			13:13																									
ZZZZZZ			13:16																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																								
				Be																								
ZZZZZZ			13:20																									
ZZZZZZ			13:24																									
ZZZZZZ			13:28																									
ZZZZZZ			13:31																									
ZZZZZZ			13:35																									
ZZZZZZ			13:39																									
ZZZZZZ			13:43																									
ZZZZZZ			13:46																									
CCV 240-177115/51			13:50																									
CCB 240-177115/52			13:54																									
ZZZZZZ			13:58																									
ZZZZZZ			14:01																									
ZZZZZZ			14:05																									
ZZZZZZ			14:09																									
ZZZZZZ			14:12																									
ZZZZZZ			14:16																									
ZZZZZZ			14:20																									
ZZZZZZ			14:24																									
ZZZZZZ			14:27																									
ZZZZZZ			14:31																									
CCV 240-177115/63			14:35																									
CCB 240-177115/64			14:39																									
ZZZZZZ			14:43																									
ZZZZZZ			14:46																									
ZZZZZZ			14:50																									
CCV 240-177115/68			14:54																									
CCB 240-177115/69			14:58																									
CRI 240-177115/70			15:02																									
ZZZZZZ			15:06																									
ZZZZZZ			15:09																									
ZZZZZZ			15:13																									
ZZZZZZ			15:17																									
ZZZZZZ			15:21																									
ZZZZZZ			15:25																									
ZZZZZZ			15:29																									
ZZZZZZ			15:33																									
ZZZZZZ			15:36																									
CCV 240-177115/80			15:40																									
CCB 240-177115/81			15:44																									
ZZZZZZ			15:48																									
ZZZZZZ			15:51																									
ZZZZZZ			15:55																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes
				Be
ZZZZZZ			15:59	
ZZZZZZ			16:03	
ZZZZZZ			16:06	
ZZZZZZ			16:10	
ZZZZZZ			16:14	
ZZZZZZ			16:18	
ZZZZZZ			16:21	
CCV 240-177115/92			16:25	
CCB 240-177115/93			16:29	
ZZZZZZ			16:33	
ZZZZZZ			16:36	
ZZZZZZ			16:40	
ZZZZZZ			16:44	
ZZZZZZ			16:48	
ZZZZZZ			16:52	
ZZZZZZ			16:55	
ZZZZZZ			16:59	
ZZZZZZ			17:02	
ZZZZZZ			17:06	
CCV 240-177115/104	1		17:10	X
CCB 240-177115/105	1		17:14	X
ZZZZZZ			17:18	
ZZZZZZ			17:21	
MB 240-176157/1-A	1	R	17:25	X
LCS 240-176157/2-A	1	R	17:29	X
240-49236-3	1	R	17:32	X
240-49236-3 SD	5	R	17:36	X
240-49236-3 PDS	1	R	17:40	X
240-49236-3 DU	1	R	17:44	X
240-49236-3 MS	1	R	17:47	X
240-49236-4	1	R	17:51	X
CCV 240-177115/116	1		17:55	X
CCB 240-177115/117	1		17:59	X
CCV 240-177115/118			18:03	
CCB 240-177115/119			18:07	
CRI 240-177115/120	1		18:11	X
ZZZZZZ			18:14	
ZZZZZZ			18:18	
ZZZZZZ			18:22	
ZZZZZZ			18:26	
ZZZZZZ			18:30	
ZZZZZZ			18:33	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																								
				Be																								
ZZZZZZ			18:37																									
ZZZZZZ			18:41																									
ZZZZZZ			18:45																									
CCV 240-177115/130			18:48																									
CCB 240-177115/131			18:52																									
ZZZZZZ			18:56																									
ZZZZZZ			19:00																									
ZZZZZZ			19:04																									
ZZZZZZ			19:08																									
ZZZZZZ			19:11																									
ZZZZZZ			19:15																									
ZZZZZZ			19:19																									
ZZZZZZ			19:23																									
CCV 240-177115/140			19:27																									
CCB 240-177115/141			19:30																									
CRI 240-177115/142			19:34																									
ZZZZZZ			19:38																									
ZZZZZZ			19:42																									
ZZZZZZ			19:46																									
ZZZZZZ			19:50																									
ZZZZZZ			19:53																									
ZZZZZZ			19:57																									
ZZZZZZ			20:01																									
ZZZZZZ			20:05																									
ZZZZZZ			20:08																									
CCV 240-177115/152			20:12																									
CCB 240-177115/153			20:16																									
ZZZZZZ			20:20																									
ZZZZZZ			20:24																									
ZZZZZZ			20:27																									
ZZZZZZ			20:31																									
ZZZZZZ			20:35																									
ZZZZZZ			20:39																									
ZZZZZZ			20:43																									
ZZZZZZ			20:47																									
ZZZZZZ			20:50																									
ZZZZZZ			20:54																									
CCV 240-177115/164			20:58																									
CCB 240-177115/165			21:02																									
ZZZZZZ			21:06																									
ZZZZZZ			21:10																									
ZZZZZZ			21:13																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																								
				Be																								
ZZZZZZ			21:17																									
ZZZZZZ			21:21																									
ZZZZZZ			21:25																									
ZZZZZZ			21:29																									
CCV 240-177115/173			21:32																									
CCB 240-177115/174			21:36																									
CRI 240-177115/175			21:40																									
CCV 240-177115/176			21:44																									
CCB 240-177115/177			21:48																									

Prep Types:
R = Total Recoverable

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: H1 Analysis Method: 7470A

Start Date: 04/14/2015 08:42 End Date: 04/14/2015 11:49

Lab Sample Id	D/F	Type	Time	Analytes
				Hg
IC 240-176216/1-A			08:42	X
IC 240-176216/2-A			08:44	X
IC 240-176216/3-A			08:46	X
IC 240-176216/4-A			08:48	X
IC 240-176216/5-A			08:50	X
IC 240-176216/6-A			08:52	X
ICV 240-176216/7-A	1		08:55	X
ICB 240-176216/8-A	1		08:57	X
CRA 240-176216/9-A	1		08:58	X
CCV 240-176216/10-A			10:06	
CCB 240-176216/11-A			10:08	
ZZZZZZ			10:09	
ZZZZZZ			10:11	
ZZZZZZ			10:13	
ZZZZZZ			10:14	
ZZZZZZ			10:16	
ZZZZZZ			10:17	
ZZZZZZ			10:19	
ZZZZZZ			10:20	
ZZZZZZ			10:22	
ZZZZZZ			10:24	
CCV 240-176216/10-A			10:25	
CCB 240-176216/11-A			10:26	
ZZZZZZ			10:28	
ZZZZZZ			10:30	
ZZZZZZ			10:31	
ZZZZZZ			10:33	
ZZZZZZ			10:34	
ZZZZZZ			10:35	
ZZZZZZ			10:37	
ZZZZZZ			10:38	
ZZZZZZ			10:40	
ZZZZZZ			10:41	
CCV 240-176216/10-A	1		10:43	X
CCB 240-176216/11-A	1		10:44	X
ZZZZZZ			10:46	
ZZZZZZ			10:47	
ZZZZZZ			10:49	
ZZZZZZ			10:51	
ZZZZZZ			10:53	
MB 240-176162/1-A	1	T	10:54	X
LCS 240-176162/2-A	1	T	10:55	X

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: H1 Analysis Method: 7470A

Start Date: 04/14/2015 08:42 End Date: 04/14/2015 11:49

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			10:57																									
ZZZZZZ			10:59																									
ZZZZZZ			11:00																									
CCV 240-176216/10-A	1		11:02	X																								
CCB 240-176216/11-A	1		11:03	X																								
ZZZZZZ			11:05																									
ZZZZZZ			11:07																									
ZZZZZZ			11:09																									
ZZZZZZ			11:10																									
ZZZZZZ			11:12																									
ZZZZZZ			11:13																									
240-49236-3	1	T	11:15	X																								
240-49236-4	1	T	11:16	X																								
ZZZZZZ			11:18																									
ZZZZZZ			11:19																									
CCV 240-176216/10-A	1		11:21	X																								
CCB 240-176216/11-A	1		11:24	X																								
ZZZZZZ			11:25																									
ZZZZZZ			11:27																									
CRA 240-176216/9-A	1		11:28	X																								
CCV 240-176216/10-A			11:30																									
CCB 240-176216/11-A			11:31																									
CCV 240-176216/10-A			11:40																									
CCB 240-176216/11-A			11:42																									
ZZZZZZ			11:43																									
ZZZZZZ			11:45																									
CCV 240-176216/10-A			11:47																									
CCB 240-176216/11-A			11:49																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: H1 Analysis Method: 7470A

Start Date: 04/17/2015 08:39 End Date: 04/17/2015 11:07

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
IC 240-176762/1-A			08:39	X																								
IC 240-176762/2-A			08:41	X																								
IC 240-176762/3-A			08:42	X																								
IC 240-176762/4-A			08:44	X																								
IC 240-176762/5-A			08:45	X																								
IC 240-176762/6-A			08:46	X																								
ICV 240-176762/7-A	1		08:48	X																								
ICB 240-176762/8-A	1		08:50	X																								
CRA 240-176762/9-A	1		08:51	X																								
CCV 240-176762/10-A			09:00																									
CCB 240-176762/11-A			09:01																									
ZZZZZZ			09:03																									
ZZZZZZ			09:05																									
ZZZZZZ			09:06																									
ZZZZZZ			09:08																									
ZZZZZZ			09:09																									
ZZZZZZ			09:11																									
ZZZZZZ			09:12																									
ZZZZZZ			09:14																									
ZZZZZZ			09:15																									
ZZZZZZ			09:17																									
CCV 240-176762/10-A			09:19																									
CCB 240-176762/11-A			09:21																									
ZZZZZZ			09:22																									
ZZZZZZ			09:23																									
ZZZZZZ			09:25																									
ZZZZZZ			09:26																									
ZZZZZZ			09:28																									
ZZZZZZ			09:30																									
ZZZZZZ			09:31																									
ZZZZZZ			09:33																									
ZZZZZZ			09:34																									
ZZZZZZ			09:36																									
CCV 240-176762/10-A			09:38																									
CCB 240-176762/11-A			09:39																									
ZZZZZZ			09:41																									
ZZZZZZ			09:43																									
ZZZZZZ			09:44																									
CCV 240-176762/10-A			09:46																									
CCB 240-176762/11-A			09:47																									
CCV 240-176762/10-A	1		10:31	X																								
CCB 240-176762/11-A	1		10:32	X																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: H1 Analysis Method: 7470A

Start Date: 04/17/2015 08:39 End Date: 04/17/2015 11:07

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			10:35																									
ZZZZZZ			10:37																									
ZZZZZZ			10:38																									
LB 240-176620/1-C	1	P	10:40	X																								
MB 240-176701/2-A	1	T	10:41	X																								
LCS 240-176701/3-A	1	T	10:42	X																								
240-49236-1	1	P	10:44	X																								
240-49236-1 DU	1	P	10:45	X																								
240-49236-1 MS	1	P	10:47	X																								
240-49236-2	1	P	10:49	X																								
CCV 240-176762/10-A	1		10:50	X																								
CCB 240-176762/11-A	1		10:52	X																								
ZZZZZZ			10:53																									
ZZZZZZ			10:55																									
ZZZZZZ			10:56																									
ZZZZZZ			10:58																									
ZZZZZZ			10:59																									
ZZZZZZ			11:01																									
ZZZZZZ			11:02																									
CRA 240-176762/9-A	1		11:04	X																								
CCV 240-176762/10-A			11:05																									
CCB 240-176762/11-A			11:07																									

Prep Types:
P = TCLP
T = Total/NA

FORM XIII-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 04/14/2015 End Date: 04/14/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-176490/3 IC	09:12	96		102		99		101		99	
STD2 240-176490/4 IC	09:16	94		100		97		96		95	
STD3 240-176490/5 IC	09:19	93		98		99		94		94	
STD4 240-176490/6 IC	09:23	96		101		98		101		99	
ICV 240-176490/7	09:27	97		103		102		99		98	
ICB 240-176490/8	09:31	99		101		103		104		101	
CRI 240-176490/9	09:35	98		104		104		102		102	
ICSA 240-176490/10	09:39	87		101		95		94		94	
ICSAB 240-176490/11	09:42	87		98		96		93		93	
CCV 240-176490/21	10:36	95		104		104		103		101	
CCB 240-176490/22	10:40	97		101		105		108		104	
MB 240-176157/1-A	11:09	83		91		92		98		92	
LCS 240-176157/2-A	11:13	81		89		91		95		88	
240-49236-3	11:16	84		93		94		96		92	
CCV 240-176490/33	11:20	90		99		98		99		95	
CCB 240-176490/34	11:24	92		94		98		101		98	
240-49236-3 SD	11:28	91		97		98		99		97	
240-49236-3 PDS	11:32	82		91		92		93		86	
240-49236-3 DU	11:35	85		94		96		96		93	
240-49236-3 MS	11:39	83		92		93		95		90	
240-49236-4	11:43	86		94		96		102		95	
CCV 240-176490/40	11:47	90		98		98		98		95	
CCB 240-176490/41	11:50	93		95		97		102		97	
CRI 240-176490/42	11:54	94		99		100		102		99	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 04/14/2015 End Date: 04/14/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-176490/3 IC	09:12	100		99		101					
STD2 240-176490/4 IC	09:16	100		98		97					
STD3 240-176490/5 IC	09:19	99		98		95					
STD4 240-176490/6 IC	09:23	100		100		101					
ICV 240-176490/7	09:27	102		101		100					
ICB 240-176490/8	09:31	102		101		101					
CRI 240-176490/9	09:35	102		102		104					
ICSA 240-176490/10	09:39	98		99		96					
ICSAB 240-176490/11	09:42	99		99		97					
CCV 240-176490/21	10:36	106		106		102					
CCB 240-176490/22	10:40	106		105		105					
MB 240-176157/1-A	11:09	100		99		102					
LCS 240-176157/2-A	11:13	99		100		98					
240-49236-3	11:16	101		100		99					
CCV 240-176490/33	11:20	102		101		100					
CCB 240-176490/34	11:24	102		101		103					
240-49236-3 SD	11:28	101		102		102					
240-49236-3 PDS	11:32	98		98		95					
240-49236-3 DU	11:35	100		100		99					
240-49236-3 MS	11:39	99		100		96					
240-49236-4	11:43	102		99		103					
CCV 240-176490/40	11:47	102		101		99					
CCB 240-176490/41	11:50	101		100		102					
CRI 240-176490/42	11:54	101		102		103					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 04/15/2015 End Date: 04/15/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-176660/3 IC	10:12	101		104		103		102		101	
STD2 240-176660/4 IC	10:15	99		105		101		99		97	
STD3 240-176660/5 IC	10:19	99		101		101		96		95	
STD4 240-176660/6 IC	10:23	99		102		98		101		99	
ICV 240-176660/7	10:27	98		102		101		98		97	
ICB 240-176660/8	10:31	101		98		101		102		100	
CRI 240-176660/9	10:35	102		102		103		102		101	
ICSA 240-176660/10	10:38	89		102		95		94		93	
ICSAB 240-176660/11	10:42	89		97		94		93		92	
CCV 240-176660/44	12:48	92		103		99		100		98	
CCB 240-176660/45	12:52	95		96		100		103		101	
MB 240-176157/1-A	12:59	84		90		90		96		93	
LCS 240-176157/2-A	13:03	82		90		89		95		88	
240-49236-3	13:07	87		94		95		95		92	
240-49236-3 SD	13:10	93		99		100		103		101	
240-49236-3 PDS	13:20	83		89		90		93		86	
240-49236-3 DU	13:24	87		94		96		97		93	
240-49236-3 MS	13:27	83		92		92		94		90	
240-49236-4	13:31	87		93		94		100		95	
CCV 240-176660/56	13:35	94		101		98		102		98	
CCB 240-176660/57	13:39	94		95		99		105		100	
240-49236-3	13:43	91		98		97		99		99	
240-49236-3 SD	13:47	93		97		98		102		100	
240-49236-3 PDS	13:51	88		97		95		98		91	
240-49236-3 DU	13:54	91		95		97		100		98	
240-49236-3 MS	13:58	90		97		97		100		97	
CCV 240-176660/63	14:02	93		101		99		100		97	
CCB 240-176660/64	14:06	96		96		100		105		100	
CRI 240-176660/65	14:10	96		98		101		102		101	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 04/15/2015 End Date: 04/15/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-176660/3 IC	10:12	102		101		103					
STD2 240-176660/4 IC	10:15	102		100		99					
STD3 240-176660/5 IC	10:19	100		99		96					
STD4 240-176660/6 IC	10:23	101		99		101					
ICV 240-176660/7	10:27	100		99		99					
ICB 240-176660/8	10:31	100		99		100					
CRI 240-176660/9	10:35	100		100		101					
ICSA 240-176660/10	10:38	99		98		96					
ICSAB 240-176660/11	10:42	100		98		96					
CCV 240-176660/44	12:48	103		102		100					
CCB 240-176660/45	12:52	103		102		104					
MB 240-176157/1-A	12:59	99		98		107					
LCS 240-176157/2-A	13:03	100		98		101					
240-49236-3	13:07	100		99		100					
240-49236-3 SD	13:10	105		104		106					
240-49236-3 PDS	13:20	98		98		97					
240-49236-3 DU	13:24	101		100		100					
240-49236-3 MS	13:27	101		99		99					
240-49236-4	13:31	102		101		105					
CCV 240-176660/56	13:35	105		103		105					
CCB 240-176660/57	13:39	105		103		105					
240-49236-3	13:43	103		102		105					
240-49236-3 SD	13:47	104		102		106					
240-49236-3 PDS	13:51	102		101		102					
240-49236-3 DU	13:54	103		101		104					
240-49236-3 MS	13:58	103		101		103					
CCV 240-176660/63	14:02	104		102		101					
CCB 240-176660/64	14:06	104		102		105					
CRI 240-176660/65	14:10	104		103		105					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 04/20/2015 End Date: 04/20/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-177115/3 IC	10:29	102		102		100		98		99	
STD2 240-177115/4 IC	10:32	99		104		101		95		96	
STD3 240-177115/5 IC	10:36	97		103		101		94		96	
STD4 240-177115/6 IC	10:40	100		104		99		102		101	
ICV 240-177115/7	10:44	100		105		104		98		99	
ICB 240-177115/8	10:48	104		102		106		103		104	
CRI 240-177115/10	10:55	103		106		105		103		104	
ICSA 240-177115/11	10:59	92		101		96		88		93	
ICSAB 240-177115/12	11:04	92		101		96		90		94	
CCV 240-177115/104	17:10	95		104		108		101		102	
CCB 240-177115/105	17:14	97		99		111		106		105	
MB 240-176157/1-A	17:25	93		95		102		98		97	
LCS 240-176157/2-A	17:29	88		94		99		93		91	
240-49236-3	17:32	93		95		102		91		93	
240-49236-3 SD	17:36	97		101		106		101		102	
240-49236-3 PDS	17:40	86		90		95		84		86	
240-49236-3 DU	17:44	93		92		100		89		92	
240-49236-3 MS	17:47	88		91		96		85		89	
240-49236-4	17:51	91		94		100		99		97	
CCV 240-177115/116	17:55	92		100		101		96		98	
CCB 240-177115/117	17:59	93		95		103		100		101	
CRI 240-177115/120	18:11	92		99		104		100		103	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

ICP-MS Instrument ID: I10 Start Date: 04/20/2015 End Date: 04/20/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-177115/3 IC	10:29	99		100		100					
STD2 240-177115/4 IC	10:32	98		100		96					
STD3 240-177115/5 IC	10:36	98		98		93					
STD4 240-177115/6 IC	10:40	100		102		101					
ICV 240-177115/7	10:44	101		103		101					
ICB 240-177115/8	10:48	104		104		104					
CRI 240-177115/10	10:55	103		103		104					
ICSA 240-177115/11	10:59	96		98		91					
ICSAB 240-177115/12	11:04	97		100		94					
CCV 240-177115/104	17:10	105		108		104					
CCB 240-177115/105	17:14	106		106		107					
MB 240-176157/1-A	17:25	99		101		104					
LCS 240-176157/2-A	17:29	99		101		99					
240-49236-3	17:32	100		101		98					
240-49236-3 SD	17:36	104		104		105					
240-49236-3 PDS	17:40	96		98		90					
240-49236-3 DU	17:44	97		100		96					
240-49236-3 MS	17:47	96		98		91					
240-49236-4	17:51	100		101		103					
CCV 240-177115/116	17:55	103		104		101					
CCB 240-177115/117	17:59	103		104		105					
CRI 240-177115/120	18:11	105		105		106					

MT6500BLKH20 141

Test America Canton ICP Data Review Checklist

Run/Project Information:

Run Date: 04/17/2015 Analyst: KLC Instrument: I9

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions (minimum 2 exposures/sample) and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV (2^{nd} source):*200.7=95 –105%, 6010B 90-110%) *(CCV: 90 – 110%)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run at SOP or project-specific frequency? Recovered within QC limits? (project specific limits may vary)	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP limits?	✓			✓
B. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Was the internal standard(s) within acceptance criteria for all results reported?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS/MSD run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL/LR/IEC data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

Level I Analyst: [signature] Date: 04/17/2015 Time: Jobs 7060, 49392

Level I Analyst: Karen L Kuntz Date: 4-20-15 Time: 6:14 - 22:14

Level I Analyst: _____ Date: _____ Time: _____

Level II Reviewer: Karen L Kuntz Date: 4-17-15 Time: Jobs 7060, 49392

Level II Reviewer: [signature] Date: 04/20/2015 Time: 06:14 - 22:14

Level II Reviewer: _____ Date: _____ Time: _____

Comments: _____

Sample Name: Blank Acquired: 4/17/2015 6:14:32 Type: Cal
Method: Standard Method + IEC Checks(v733) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00044	.00176	-.00025	.00130	.01246	-.00237	.00639
Stddev	.00016	.00013	.00023	.00031	.00088	.00006	.00029
%RSD	35.955	7.4602	91.504	24.204	7.0249	2.6814	4.4970

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0016	.00096	-.00036	-.00587	-.00032	.00837	.00473
Stddev	.0002	.00018	.00006	.00030	.00017	.00246	.00097
%RSD	14.48	19.016	17.921	5.1436	54.325	29.421	20.439

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00034	-.00008	-.00013	.00597	.00250	.00112	-.0006
Stddev	.00019	.00004	.00019	.00137	.00009	.00124	.0001
%RSD	55.190	51.047	145.88	22.978	3.5494	110.98	9.881

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00033	-.00003	.00026	-.00143	.00007	.00219	.00255
Stddev	.00028	.00020	.00003	.00005	.00005	.00030	.00001
%RSD	84.433	604.72	13.056	3.3811	76.614	13.947	.26145

Elem	Sr3464
IS Ref	(Y_3710)
Units	Cts/S
Avg	-.00071
Stddev	.00084
%RSD	118.56

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3647.9	2973.6	34869.	6240.4
Stddev	10.2	8.8	223.	30.1
%RSD	.28088	.29635	.64093	.48268

Sample Name: SCAL1-1851156 Acquired: 4/17/2015 6:18:43 Type: Cal
Method: Standard Method + IEC Checks(v733) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	As1890	B_1826	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0362	.15777	7.0013	26.886	21.145	3.383	5.1652	1.2281
Stddev	.0010	.00084	.0115	.040	.068	.007	.0066	.0021
%RSD	.09595	.53442	.16399	.14821	.32381	.1994	.12708	.17086

Elem	Cu3273	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
IS Ref	(Y_3600)	(Y_3710)	(Y_3600)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1460	11.144	9.0140	4.9693	2.9141	.44953	.2178	.15356
Stddev	.0014	.008	.0300	.0016	.0029	.00074	.0013	.00070
%RSD	.11986	.07310	.33289	.03232	.09936	.16538	.5740	.45806

Elem	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Sr3464
IS Ref	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.5287	8.2900	.33955	.51964	6.3127	1.3758
Stddev	.0169	.0478	.00131	.00231	.0104	.0053
%RSD	.47930	.57679	.38510	.44392	.16402	.38558

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3599.9	2962.0	35447.	6276.3
Stddev	7.2	8.0	30.	20.5
%RSD	.19966	.27050	.08379	.32605

Sample Name: SCAL2-1851157 Acquired: 4/17/2015 6:22:48 Type: Cal
Method: Standard Method + IEC Checks(v733) Mode: IR Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Al3082	Ca3179	Fe2599	K_7664	Mg2790	Na5895	Si2516
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2994	17.943	8.0393	4.7688	1.4278	18.609	.68409
Stddev	.0016	.006	.0185	.0085	.0023	.023	.00146
%RSD	.12253	.03468	.22982	.17870	.15808	.12606	.21276

Int. Std.	Y_3710
Units	Cts/S
Avg	6167.4
Stddev	19.0
%RSD	.30771

Sample Name: ICV-1896218 Acquired: 4/17/2015 6:28:02 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	761.30	12855.	385.78	1535.8	1498.7	1524.3	25996.	383.4
Stddev	2.04	23.	1.99	3.7	3.9	3.2	15.	.5
%RSD	.26780	.18275	.51559	.24340	.25784	.20752	.05626	.1412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1470.1	1489.3	1518.3	12927.	25326.	1022.5	25565.	1497.5
Stddev	1.1	6.6	.9	19.	12.	3.7	108.	4.4
%RSD	.07425	.44449	.05850	.14896	.04617	.35993	.42289	.29285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1501.7	25767.	1507.3	378.62	382.9	390.05	1511.6	1540.5
Stddev	3.1	10.	2.7	.98	2.1	3.22	4.7	2.4
%RSD	.20483	.03792	.17690	.25780	.5501	.82677	.31115	.15600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV-1896218 Acquired: 4/17/2015 6:28:02 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	751.09	1565.1	1524.3	3160.5	4609.0
Stddev	3.92	4.1	3.3	10.6	8.9
%RSD	.52205	.26459	.21906	.33642	.19367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3571.6	2943.1	35252.	6365.1
Stddev	3.3	5.8	95.	13.7
%RSD	.09302	.19548	.26942	.21473

Sample Name: ICB Acquired: 4/17/2015 6:31:51 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27582	-7.5708	1.7017	4.9267	.05439	.11407	7.7974	-.0508
Stddev	.19751	16.640	1.3922	.1005	.13319	.08716	1.7320	.1586
%RSD	71.607	219.79	81.815	2.0408	244.90	76.409	22.212	312.2
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13207	.01275	1.3987	4.5302	43.098	.88034	6.4744	.21384
Stddev	.21638	.52191	.6274	.5119	43.227	.80507	19.202	.05156
%RSD	163.83	4093.9	44.854	11.300	100.30	91.450	296.58	24.109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60176	18.875	-.24588	.41571	-.4788	-1.1928	.81465	.37936
Stddev	.15673	7.319	.33057	1.8060	1.581	1.5812	.87574	.12642
%RSD	26.046	38.775	134.44	434.43	330.2	132.56	107.50	33.326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Sample Name: ICB Acquired: 4/17/2015 6:31:51 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.60591	-2.3962	.13549	-2.0400	5.0802
Stddev	1.5928	4.5669	.16310	2.2576	4.1571
%RSD	262.88	190.59	120.38	110.67	81.829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3648.5	2978.9	35402.	6306.4
Stddev	8.1	9.6	109.	17.5
%RSD	.22099	.32204	.30814	.27694

Sample Name: CRI-1910850 Acquired: 4/17/2015 6:36:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0978	212.42	17.339	208.53	10.340	5.1167	5251.6	5.176
Stddev	.1643	11.72	.250	.35	.117	.0599	18.7	.044
%RSD	3.2221	5.5177	1.4407	.16892	1.1287	1.1703	.35657	.8584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0058	5.3365	16.038	323.54	5084.0	52.656	5224.8	15.595
Stddev	.4104	.1933	.896	2.48	29.6	.164	33.8	.059
%RSD	8.1978	3.6230	5.5883	.76518	.58306	.31176	.64636	.37714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.494	5091.1	25.321	11.742	11.41	22.722	100.92	51.075
Stddev	.230	19.2	.222	1.797	1.77	5.638	.46	.215
%RSD	2.1942	.37679	.87587	15.308	15.49	24.813	.45841	.42104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRI-1910850 Acquired: 4/17/2015 6:36:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	14.477	6.7352	41.020	514.60	54.916
Stddev	.078	2.2062	.096	3.27	.807
%RSD	.54065	32.756	.23353	.63485	1.4688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3672.5	3007.8	35374.	6296.8
Stddev	4.9	2.0	156.	12.9
%RSD	.13255	.06662	.44005	.20432

Sample Name: CRILL-1889504 Acquired: 4/17/2015 6:40:09 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0666	220.37	10.121	208.03	202.37	5.1005	5239.0	2.186
Stddev	.5416	14.71	.764	.03	.32	.1125	3.0	.068
%RSD	10.690	6.6746	7.5508	.01434	.15938	2.2062	.05722	3.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.1689	5.4054	26.708	108.15	5052.2	51.259	5277.3	15.504
Stddev	.0887	.6834	.202	.64	42.9	1.447	13.4	.033
%RSD	1.2378	12.643	.75532	.59163	.84883	2.8230	.25372	.21376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.184	5099.0	40.901	2.2737	12.03	5.5397	100.70	51.064
Stddev	.156	7.7	.682	1.1984	.56	.3591	.09	.366
%RSD	1.5287	.15090	1.6684	52.708	4.631	6.4823	.09165	.71721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRILL-1889504 Acquired: 4/17/2015 6:40:09 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	10.412	7.6745	20.757	514.18	49.228
Stddev	1.263	1.3186	.249	3.34	2.322
%RSD	12.126	17.182	1.1992	.64920	4.7171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3677.9	3018.7	35505.	6401.6
Stddev	14.8	12.3	91.	38.9
%RSD	.40308	.40811	.25527	.60717

Sample Name: ICSA-1925792 Acquired: 4/17/2015 6:44:13 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47983	512630.	-.84642	3.8075	.27976	-.28308	482240.
Stddev	.38813	1013.	2.1680	.7413	.13654	.06074	4154.
%RSD	80.888	.19763	256.14	19.470	48.807	21.459	.86146
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3252	-1.7368	3.5797	1.9842	194070.	118.72	-28.151
Stddev	.1565	.3064	.2447	.7522	339.	49.22	.835
%RSD	48.13	17.639	6.8344	37.913	.17454	41.460	2.9647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	511860.	.64628	-2.1598	121.01	.29958	3.6155	-1.306
Stddev	1225.	.04857	.6583	15.23	.38443	2.2414	1.055
%RSD	.23924	7.5153	30.478	12.582	128.32	61.993	80.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA-1925792 Acquired: 4/17/2015 6:44:13 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.2969	1.8551	-.55666	2.8777	-1.7710	2.7662	2.0728
Stddev	3.8491	.7350	.26300	1.3397	5.4470	.4834	3.5188
%RSD	89.578	39.620	47.246	46.554	307.57	17.474	169.76
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	8.8255
Stddev	.9956
%RSD	11.280
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3262.9	2697.7	32528.	6147.9
Stddev	9.8	7.0	77.	16.9
%RSD	.29976	.25856	.23570	.27555

Sample Name: ICSAB-1894991 Acquired: 4/17/2015 6:48:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1093.0	519630.	1042.9	535.25	505.34	495.11	494340.
Stddev	.6	1170.	3.4	.77	.76	1.92	3751.
%RSD	.05419	.22509	.32222	.14385	.15023	.38693	.75882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1060.	490.65	492.19	554.22	196170.	10787.	510.63
Stddev	.	1.01	1.84	1.04	203.	14.	1.77
%RSD	.0313	.20501	.37389	.18838	.10364	.12542	.34641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	514120.	493.04	1015.7	10770.	975.58	976.38	1043.
Stddev	2235.	.76	2.7	46.	1.23	4.39	3.
%RSD	.43466	.15332	.26256	.42647	.12587	.44960	.2474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB-1894991 Acquired: 4/17/2015 6:48:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1021.7	497.01	514.00	991.85	495.56	961.64	10172.
Stddev	.7	1.67	.32	3.67	4.29	2.54	24.
%RSD	.06493	.33663	.06263	.36986	.86580	.26378	.23118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1478.6
Stddev	7.7
%RSD	.51976
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3267.0	2707.6	32381.	6135.5
Stddev	3.4	5.1	88.	14.2
%RSD	.10337	.18704	.27103	.23072

Sample Name: CCV-1936246 Acquired: 4/17/2015 6:52:12 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1037.7	25712.	520.61	5202.3	2009.4	2035.8	51424.	515.1
Stddev	1.8	103.	1.15	1.7	1.8	3.9	48.	.8
%RSD	.17307	.40047	.22029	.03178	.09110	.19142	.09354	.1466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2015.8	2002.6	2075.3	25824.	50566.	5105.0	50766.	2016.6
Stddev	1.6	1.9	4.2	39.	115.	6.3	125.	7.9
%RSD	.08007	.09315	.20179	.15255	.22810	.12402	.24623	.39372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2061.3	51008.	2016.1	503.55	516.1	518.13	5105.1	5155.6
Stddev	2.8	145.	2.1	2.11	2.6	4.14	5.0	32.2
%RSD	.13459	.28490	.10235	.41966	.5127	.79862	.09714	.62455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 6:52:12 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1021.6	2045.8	2026.2	5311.5	5049.6
Stddev	.9	8.6	3.3	29.1	21.5
%RSD	.09017	.41846	.16420	.54749	.42641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3521.7	2915.9	34575.	6276.2
Stddev	8.5	6.4	208.	23.0
%RSD	.24123	.22022	.60219	.36605

Sample Name: CCB Acquired: 4/17/2015 6:56:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10480	22.622	-.69986	6.6973	.22096	.15828	35.021	.0322
Stddev	.29144	18.036	2.0765	.5263	.10281	.12953	4.778	.0274
%RSD	278.09	79.727	296.70	7.8581	46.527	81.836	13.642	85.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03974	.11519	.78820	15.208	64.718	.09763	14.579	.13965
Stddev	.19990	.06647	.46417	1.650	21.800	2.2031	17.397	.01718
%RSD	502.98	57.704	58.890	10.850	33.684	2256.7	119.33	12.305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55547	19.241	-.23210	.46933	.4693	-.30540	.36235	.99477
Stddev	.08521	9.831	.41451	.47741	2.205	.97448	.60416	.20930
%RSD	15.341	51.094	178.59	101.72	469.8	319.09	166.73	21.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 6:56:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.17609	-2.2569	.21155	-7.0934	-3.8944
Stddev	.83173	1.2358	.05903	7.2284	2.7334
%RSD	472.34	54.756	27.902	101.90	70.187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3654.0	2978.0	35184.	6327.5
Stddev	9.2	9.3	139.	16.7
%RSD	.25129	.31327	.39561	.26347

Sample Name: IEC Check As Acquired: 4/17/2015 7:00:18 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03544	73.221	5199.3	4.2051	-.15550	-.00171	18.471	-.1604
Stddev	.32692	10.287	9.2	.0609	.02845	.05088	1.137	.0252
%RSD	922.45	14.050	.17678	1.4487	18.293	2972.4	6.1553	15.70
Check ?	None	None	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07105	.14613	.75787	7.5281	38.093	-1.5021	-6.4278	.09707
Stddev	.08048	.32246	1.3545	.9163	9.127	1.5857	5.5289	.02499
%RSD	113.28	220.67	178.72	12.171	23.959	105.56	86.016	25.744
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12364	7.8510	-.48367	.24000	2.453	-1.0696	-.09316	.22149
Stddev	.09896	10.729	.42262	.91015	2.996	.7284	.37697	.11987
%RSD	80.037	136.65	87.378	379.23	122.1	68.099	404.66	54.120
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: IEC Check As Acquired: 4/17/2015 7:00:18 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3569	-.14778	-.07180	-6.5645	-.33200
Stddev	.8833	.42639	.07307	2.9443	2.1813
%RSD	65.097	288.53	101.77	44.852	657.01
Check ?	None	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3732.7	3035.9	36081.	6476.4
Stddev	2.7	3.0	154.	18.1
%RSD	.07299	.09894	.42780	.27885

Sample Name: IEC Check Ti Acquired: 4/17/2015 7:04:28 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.95547	-9.8071	1.8254	3.8856	.03587	.01623	8.3244	.3471
Stddev	.48755	7.2877	1.9154	.1475	.07468	.06895	3.3277	.0297
%RSD	51.028	74.311	104.93	3.7958	208.20	424.72	39.975	8.563
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3136	.79908	-2.0978	3.0706	4.5693	-1.6848	-47.030	.07707
Stddev	.5966	.39956	.9575	2.6190	30.657	1.2237	10.078	.02050
%RSD	45.417	50.003	45.642	85.293	670.93	72.630	21.428	26.596
Check ?	Chk Pass	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58711	-16.062	-1.5092	-.50661	4.197	-.76948	2.4268	30432.
Stddev	.23898	4.764	.4255	.55640	.819	1.7147	.8550	77.
%RSD	40.704	29.658	28.196	109.83	19.50	222.84	35.234	.25209
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: IEC Check Ti Acquired: 4/17/2015 7:04:28 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.1375	-1.6146	-.57703	1713.6	-3.1953
Stddev	1.7842	3.0377	.12692	344.6	4.3497
%RSD	56.866	188.14	21.995	20.106	136.13
Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3772.2	3079.8	35724.	6423.2
Stddev	8.3	7.9	132.	9.2
%RSD	.22041	.25613	.36860	.14344

Sample Name: IEC Check Co Acquired: 4/17/2015 7:08:48 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07853	-18.563	.00824	2.3518	.03202	-.06800	5.0848	.2047
Stddev	.61874	2.222	1.3390	.2136	.18274	.04081	1.8624	.1317
%RSD	787.93	11.970	16244.	9.0831	570.68	60.007	36.626	64.34
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10154.	-.11220	2.4675	3.8312	-17.013	-2.0150	-8.8226	.02258
Stddev	21.	.44997	.9458	.8260	60.910	1.3636	12.288	.03587
%RSD	.20613	401.04	38.332	21.560	358.01	67.673	139.28	158.85
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00602	-27.453	-.54435	1.8626	-.3393	-.41957	.07268	4.6965
Stddev	.23518	1.062	.13995	1.7905	.6797	1.4672	.24979	.1520
%RSD	3909.7	3.8673	25.710	96.127	200.3	349.68	343.70	3.2373
Check ?	None	None	Chk Pass	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: IEC Check Co Acquired: 4/17/2015 7:08:48 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	5.1191	.83857	.02760	.88058	-3.0003
Stddev	1.8014	1.7465	.30974	.69853	1.8687
%RSD	35.191	208.27	1122.4	79.326	62.283
Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3748.4	3052.3	35939.	6497.1
Stddev	6.2	4.5	128.	4.3
%RSD	.16516	.14770	.35721	.06583

Sample Name: IEC Check Al Acquired: 4/17/2015 7:12:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31978	507740.	-.38721	3.3345	-.19128	.05781	8.2944
Stddev	.58518	751.	1.8804	.3395	.14152	.09616	1.1815
%RSD	182.99	.14789	485.63	10.181	73.983	166.36	14.245
Check ?	None	None	Chk Pass	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0182	1.4905	.29929	.46186	2.7854	-14.811	-.82068
Stddev	.0079	1.9181	.30210	.43807	1.1005	9.905	1.6542
%RSD	43.51	128.69	100.94	94.848	39.509	66.873	201.57
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-22.703	-.11507	-.95034	7.8464	-.69954	-3.5519	.0021
Stddev	24.352	.01969	.30453	2.9869	.04810	2.3351	3.579
%RSD	107.27	17.108	32.044	38.067	6.8760	65.744	168600.
Check ?	None	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: IEC Check Al Acquired: 4/17/2015 7:12:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.4092	1.0908	1.8593	2.3030	-.70112	.41619	-2.7520
Stddev	4.3593	.2799	.2737	1.7208	.86535	.21177	1.4712
%RSD	68.016	25.657	14.719	74.719	123.42	50.883	53.459
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-2.1578
Stddev	5.9360
%RSD	275.10
Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3689.3	2983.1	34156.	6593.1
Stddev	7.1	6.2	126.	41.0
%RSD	.19302	.20945	.36937	.62151

Sample Name: IEC Check Fe Acquired: 4/17/2015 7:17:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.83664	40.355	-1.6350	2.3800	-.08462	.09394	6.9085
Stddev	.11707	15.507	2.9408	.1843	.15629	.08967	.6743
%RSD	13.992	38.427	179.86	7.7415	184.70	95.450	9.7601
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.493	-1.9735	1.2744	1.2715	500270.	-134.11	-1.2596
Stddev	.243	.3102	.5880	.3202	7741.	13.17	.7983
%RSD	16.26	15.717	46.140	25.187	1.5473	9.8228	63.380
Check ?	Chk Pass	None	None	Chk Pass	None	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-36.648	4.6583	-2.3977	-26.779	-8.0299	-1.2329	3.543
Stddev	11.608	.0968	.3333	1.483	.9853	1.4670	1.962
%RSD	31.675	2.0777	13.902	5.5367	12.271	118.99	55.36
Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: IEC Check Fe Acquired: 4/17/2015 7:17:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8724	2.8170	1.3596	5.6510	-2.6000	5.0372	-9.9841
Stddev	2.5671	.4482	.1510	1.1245	1.5369	.0250	1.1034
%RSD	137.10	15.912	11.108	19.899	59.111	.49694	11.051
Check ?	None	None	None	None	Chk Pass	None	None
Value							
Range							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	8.2072
Stddev	3.7563
%RSD	45.768
Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3723.7	2978.0	35291.	6366.9
Stddev	2.2	4.3	87.	12.0
%RSD	.05929	.14415	.24538	.18792

Sample Name: IEC Check V Acquired: 4/17/2015 7:21:31 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.63175	-177.87	.48236	2.2198	-.12817	.89197	3.2909	.0298
Stddev	.76916	25.03	.06313	.0600	.06686	.06693	2.3348	.0423
%RSD	121.75	14.075	13.088	2.7016	52.162	7.5034	70.946	142.0
Check ?	None	Chk Pass	None	None	None	Chk Pass	None	None
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13515	-.41966	.52322	63.460	-49.047	-1.6625	-4.2992	.01320
Stddev	.19604	.41362	.88151	11.924	49.300	.8714	15.636	.01965
%RSD	145.05	98.562	168.48	18.789	100.51	52.415	363.68	148.82
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.71915	-43.432	-.82114	1.0235	.3541	-.74960	.20999	.50573
Stddev	.15860	3.416	.34520	.9088	2.329	1.3271	.36555	.23269
%RSD	22.054	7.8657	42.040	88.794	657.8	177.04	174.08	46.011
Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Sample Name: IEC Check V Acquired: 4/17/2015 7:21:31 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-7.5940	5014.0	-.97137	-7.0819	1.1010
Stddev	1.4842	21.1	.05477	1.7738	2.6572
%RSD	19.545	.42088	5.6381	25.046	241.35
Check ?	Chk Pass	None	None	None	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3724.9	3056.9	35909.	6499.9
Stddev	8.3	3.2	90.	14.6
%RSD	.22227	.10496	.25042	.22494

Sample Name: CCV-1936246 Acquired: 4/17/2015 7:25:38 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1038.2	25574.	520.27	5201.0	2024.4	2032.6	51338.	513.9
Stddev	.8	12.	1.26	9.1	6.5	2.1	49.	1.3
%RSD	.07343	.04516	.24281	.17578	.32332	.10434	.09570	.2449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2006.0	2003.1	2077.0	25844.	50559.	5084.7	50340.	2013.7
Stddev	1.2	5.6	2.7	28.	18.	7.2	77.	5.4
%RSD	.06047	.28141	.12918	.10909	.03608	.14237	.15353	.26922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2055.4	50959.	2005.9	501.56	511.9	519.17	5086.2	5145.9
Stddev	2.5	6.	3.0	1.68	2.1	5.00	12.9	47.2
%RSD	.11989	.01100	.15089	.33396	.4012	.96254	.25325	.91785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 7:25:38 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1020.7	2053.9	2014.8	5236.8	5046.8
Stddev	2.4	6.2	1.2	25.7	15.3
%RSD	.23400	.30215	.05872	.49155	.30356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3525.9	2916.8	34421.	6335.4
Stddev	7.2	9.5	23.	7.2
%RSD	.20381	.32668	.06608	.11335

Sample Name: CCB Acquired: 4/17/2015 7:29:28 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12476	.04099	.77404	6.7176	.09220	.12613	9.1624	-.0370
Stddev	.23008	10.423	2.6672	.5446	.11834	.05974	2.7783	.0308
%RSD	184.42	25432.	344.58	8.1076	128.36	47.364	30.323	83.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21672	.29641	1.8732	13.506	22.231	3.6071	-18.315	.15198
Stddev	.41963	.22214	.6629	.825	52.816	1.6079	6.846	.02701
%RSD	193.63	74.945	35.390	6.1102	237.58	44.576	37.380	17.770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24291	.54384	-.23372	1.3600	1.041	.53525	-.24133	1.2772
Stddev	.16716	12.663	.30665	1.1094	1.884	1.2482	.51336	.1353
%RSD	68.817	2328.5	131.20	81.574	181.1	233.19	212.72	10.590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 7:29:28 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.02831	-2.1971	.10254	-1.5924	-.01229
Stddev	2.5269	4.3670	.03764	2.7415	9.2121
%RSD	8924.6	198.76	36.712	172.16	74928.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3647.1	2978.9	35522.	6383.1
Stddev	4.7	4.2	73.	26.3
%RSD	.12876	.13949	.20546	.41185

Sample Name: mb 240-176664/1-a Acquired: 4/17/2015 7:50:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03644	5.9582	1.1005	5.0425	.79391	.03821	280.01
Stddev	.28255	15.697	.2988	.4129	.14950	.02676	2.58
%RSD	775.37	263.45	27.154	8.1890	18.831	70.031	.92078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0499	.00047	-.02609	1.1591	17.812	48.050	-2.8905
Stddev	.1625	.17263	.35313	.3738	2.316	14.482	1.3512
%RSD	325.8	36725.	1353.3	32.244	12.999	30.140	46.747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.076	F 86.912	-.14295	23.753	-.49675	.01738	.6982
Stddev	8.318	.054	.29646	2.099	.70087	.31280	1.364
%RSD	18.454	.06243	207.39	8.8364	141.09	1799.3	195.3
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10.000					
Low Limit		-1000.0					

Sample Name: mb 240-176664/1-a Acquired: 4/17/2015 7:50:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2700	1.1785	.11624	-.51748	-.89034	3.3576	-3.0705
Stddev	2.4380	.9374	.25390	.87154	2.6769	.0561	2.5509
%RSD	191.97	79.541	218.43	168.42	300.66	1.6714	83.078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3.8559
Stddev	3.1492
%RSD	81.672
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3713.1	3052.2	35916.	6558.3
Stddev	2.8	2.2	96.	29.9
%RSD	.07408	.07090	.26725	.45547

Sample Name: lcs 240-176664/2-a Acquired: 4/17/2015 7:54:25 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.383	1871.5	1924.8	978.01	1840.3	45.690	47445.	48.32
Stddev	.261	17.9	4.9	2.37	1.5	.230	32.	.20
%RSD	.54015	.95426	.25472	.24202	.08404	.50336	.06736	.4177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	460.61	188.74	236.61	957.41	46607.	927.48	46600.	461.51
Stddev	.51	.25	.25	3.56	53.	.75	58.	1.45
%RSD	.11122	.13186	.10747	.37228	.11458	.08119	.12448	.31323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	927.60	47107.	466.57	461.14	486.2	2016.8	1870.3	957.90
Stddev	2.60	25.	1.04	2.55	1.5	10.2	1.0	2.20
%RSD	.28049	.05304	.22363	.55319	.3103	.50560	.05470	.22998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: lcs 240-176664/2-a Acquired: 4/17/2015 7:54:25 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1900.5	475.18	471.37	989.56	937.04
Stddev	2.8	2.47	.70	7.53	8.36
%RSD	.14631	.51933	.14759	.76117	.89169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3560.3	2947.7	34703.	6447.3
Stddev	4.8	8.2	57.	4.8
%RSD	.13574	.27796	.16437	.07417

Sample Name: 190-7060-a-1-a Acquired: 4/17/2015 7:58:07 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15512	1.4490	3.6215	7150.6	31.424	-.02037	45329.
Stddev	.25768	7.1588	1.2903	14.8	.140	.02206	51.
%RSD	166.12	494.04	35.628	.20653	.44420	108.29	.11297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6053	.01900	1.3483	23.901	11.394	6884.0	2.7064
Stddev	.1181	.38001	.3198	.562	1.011	51.0	1.5209
%RSD	19.51	2000.5	23.719	2.3527	8.8757	.74069	56.199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11430.	111.58	32.587	182090.	.92870	34.405	5.103
Stddev	105.	.38	.196	391.	.28215	.705	2.076
%RSD	.91675	.34121	.60280	.21486	30.382	2.0502	40.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 190-7060-a-1-a Acquired: 4/17/2015 7:58:07 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10635	.50048	.72229	3.3029	-.24960	1003.3	1242.4
Stddev	1.1157	.58819	.14391	1.1117	4.7617	1.0	10.4
%RSD	1049.1	117.52	19.924	33.659	1907.8	.09500	.83649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	187.72
Stddev	7.49
%RSD	3.9904
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3598.5	2965.4	34919.	6369.1
Stddev	13.0	7.4	106.	17.4
%RSD	.36234	.24859	.30263	.27358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.647%	99.722%	100.14%	102.06%
Range				

Sample Name: 240-49392-d-1-a Acquired: 4/17/2015 8:02:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54363	348.23	3.7364	64.832	47.449	-.00346	149500.
Stddev	.06716	2.96	.3780	1.045	.197	.03719	73.
%RSD	12.355	.84947	10.117	1.6116	.41499	1075.7	.04854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0803	.52357	22.284	97.896	202.46	17737.	2.8725
Stddev	.1265	.45542	.206	.920	1.04	45.	1.0048
%RSD	157.4	86.984	.92555	.93967	.51221	.25208	34.979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1787.3	9.0181	23.361	37235.	3.3454	2.2690	2.769
Stddev	31.3	.0517	.111	32.	.7929	1.1499	1.907
%RSD	1.7522	.57300	.47351	.08688	23.702	50.678	68.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49392-d-1-a Acquired: 4/17/2015 8:02:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.4458	.27026	7.8111	3.5181	4.2774	4.7271	6110.7
Stddev	3.2032	.47431	.8043	.5283	4.2124	.1120	20.9
%RSD	72.051	175.50	10.297	15.016	98.479	2.3690	.34148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	598.83
Stddev	9.76
%RSD	1.6292
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3611.8	2955.6	35326.	6388.7
Stddev	7.6	4.4	80.	19.9
%RSD	.21099	.15026	.22727	.31165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.011%	99.394%	101.31%	102.38%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 8:06:13 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1019.2	25087.	514.00	5131.4	1980.5	2000.2	50369.	506.5
Stddev	1.3	54.	1.08	7.5	3.7	1.0	44.	.4
%RSD	.12474	.21685	.20950	.14640	.18559	.05211	.08722	.0875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1972.6	1978.5	2033.4	25203.	49702.	4967.8	49772.	1971.8
Stddev	1.9	6.1	5.7	41.	155.	6.6	103.	8.0
%RSD	.09622	.30740	.28235	.16226	.31110	.13302	.20677	.40634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2011.0	50152.	1973.0	493.91	507.7	513.74	5038.1	5043.0
Stddev	2.8	94.	.6	1.00	1.0	.73	4.0	31.6
%RSD	.14159	.18664	.03018	.20266	.1996	.14220	.08021	.62718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 8:06:13 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1010.5	2013.7	1993.2	5155.8	4986.1
Stddev	1.1	5.2	3.8	28.7	3.4
%RSD	.10848	.25911	.18918	.55593	.06802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3498.5	2898.6	34516.	6311.3
Stddev	9.4	9.0	158.	11.3
%RSD	.26972	.30878	.45738	.17885

Sample Name: CCB Acquired: 4/17/2015 8:10:02 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03028	2.4943	1.5049	9.3123	.13315	.19966	13.437	.1050
Stddev	.51105	16.717	.7001	.5825	.20005	.07466	1.204	.0518
%RSD	1687.8	670.21	46.518	6.2550	150.24	37.393	8.9610	49.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05049	.53190	.93590	4.2445	36.902	2.2967	-13.815	.12947
Stddev	.15089	.26764	.06121	1.9921	30.532	.7163	14.840	.02201
%RSD	298.87	50.318	6.5398	46.933	82.739	31.186	107.42	17.003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46597	25.190	-.29490	.96359	2.537	.14685	.05141	1.0325
Stddev	.13713	6.881	.35980	.86339	.917	1.9871	.71483	.2643
%RSD	29.428	27.316	122.01	89.601	36.16	1353.1	1390.3	25.594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 8:10:02 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.3835	.87412	-.00607	-3.1827	-1.2261
Stddev	1.0504	1.1001	.08738	5.5547	2.0025
%RSD	75.918	125.85	1438.8	174.53	163.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3625.7	2959.4	35100.	6281.4
Stddev	12.9	5.7	106.	4.5
%RSD	.35478	.19334	.30192	.07153

Sample Name: CRI-1919850 Acquired: 4/17/2015 8:14:35 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.8984	192.43	14.260	208.77	200.18	5.0088	5173.3	5.061
Stddev	.5863	15.80	.991	.55	.25	.0191	14.3	.035
%RSD	5.9234	8.2132	6.9503	.26148	.12473	.38050	.27678	.6863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.9741	10.326	23.845	210.22	4988.5	49.734	5269.2	15.213
Stddev	.3352	.098	.612	1.34	22.2	.916	35.3	.069
%RSD	3.3602	.95182	2.5677	.63539	.44520	1.8422	.67030	.45374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.687	5037.1	40.156	11.015	21.86	22.078	99.887	50.566
Stddev	.301	10.4	.238	.405	1.04	2.337	1.197	.529
%RSD	.73891	.20644	.59191	3.6798	4.741	10.586	1.1985	1.0455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRI-1919850 Acquired: 4/17/2015 8:14:35 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	20.588	11.561	57.815	511.00	50.816
Stddev	2.092	3.159	.115	9.61	2.305
%RSD	10.161	27.325	.19810	1.8814	4.5363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3643.5	2986.9	35327.	6259.5
Stddev	5.7	7.2	136.	36.4
%RSD	.15638	.24172	.38608	.58089

Sample Name: HIGH STD Acquired: 4/17/2015 8:18:32 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.50872	93.740	-3.0431	271.35	20284.	-.00165	14.288
Stddev	.15517	5.750	1.3654	.27	333.	.08522	3.890
%RSD	30.502	6.1342	44.870	.09885	1.6403	5165.8	27.227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2521	-1.6077	10173.	1.8782	3.2251	12.379	.29183
Stddev	.1570	.2002	12.	1.0517	.9994	35.297	1.1604
%RSD	62.25	12.454	.12236	55.994	30.987	285.13	397.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-30.092	9915.4	-.07018	187.90	.77085	10456.	.0163
Stddev	21.509	52.5	.28423	9.41	.28929	20.	1.076
%RSD	71.477	.52912	404.98	5.0080	37.529	.19161	6583.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: HIGH STD Acquired: 4/17/2015 8:18:32 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 10142.	-.86039	.55537	4980.4	1.0733	-.63424	2654.4
Stddev	10.	.77541	.10357	19.9	1.2396	.31109	17.3
%RSD	.09422	90.123	18.649	.39892	115.50	49.049	.65304
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10000.						
Low Limit	-500000.						

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-1.6478
Stddev	.4929
%RSD	29.913
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3674.0	3011.0	35507.	6353.8
Stddev	7.1	.2	52.	63.3
%RSD	.19297	.00633	.14680	.99678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.71%	101.25%	101.83%	101.82%
Range				

Sample Name: lb 240-176620/1-b Acquired: 4/17/2015 8:22:48 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24558	12.016	4.3263	31.223	4.7227	-.00802
Stddev	.32165	25.385	1.6742	.348	.1522	.04061
%RSD	130.98	211.25	38.698	1.1158	3.2222	506.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	163.27	-.1203	-.07881	1.8529	-.02464	15.932
Stddev	.89	.1170	.20063	.0945	.95144	.517
%RSD	.54555	97.28	254.57	5.0986	3862.0	3.2435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	492.70	9.9892	19.390	1.4611	.21130	F 1300300.
Stddev	39.68	3.2847	4.203	.0558	.34562	6540.
%RSD	8.0547	32.883	21.678	3.8180	163.57	.50298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						1000.0
Low Limit						-1000.0

Sample Name: lb 240-176620/1-b Acquired: 4/17/2015 8:22:48 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6336	2.1185	1.126	F 6.5313	1.6629	.14507
Stddev	.0964	1.3733	2.723	3.1830	.7245	.04709
%RSD	5.8993	64.826	241.8	48.735	43.569	32.461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5.0000		
Low Limit				-1000.0		

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.0921	2.4702	4.0076	246.05	-.78498
Stddev	.6911	1.8872	.1952	6.38	.71117
%RSD	63.281	76.399	4.8697	2.5921	90.597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3334.5	2857.4	33475.	6289.0
Stddev	13.6	11.3	121.	13.7
%RSD	.40761	.39541	.36285	.21838

Sample Name: mb 240-176697/2-a Acquired: 4/17/2015 8:27:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14300	-1.2913	.58933	6.8689	1.8866	.01656	272.22	.0668
Stddev	.42655	5.5512	.57724	.2025	.2069	.02752	2.79	.1200
%RSD	298.29	429.90	97.947	2.9482	10.969	166.19	1.0262	179.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07732	.74376	2.1552	21.259	112.60	4.4766	64.472	.72465
Stddev	.23185	.20793	.3198	1.706	47.78	.5967	21.600	.04977
%RSD	299.85	27.957	14.837	8.0272	42.435	13.329	33.503	6.8684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11214	660.38	-.07721	-.27205	-.2956	.20725	-2.9588	.13183
Stddev	.21546	30.56	.18870	1.4929	2.667	1.4574	5.7776	.07709
%RSD	192.13	4.6268	244.40	548.77	902.3	703.24	195.27	58.475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-176697/2-a Acquired: 4/17/2015 8:27:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.76484	1.4462	2.1729	9.4850	-2.1340
Stddev	2.7000	1.4384	.0792	3.6649	.2994
%RSD	353.01	99.460	3.6458	38.639	14.030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3667.9	3009.5	35871.	6474.0
Stddev	4.9	1.8	30.	10.0
%RSD	.13454	.05838	.08465	.15393

Sample Name: lcs 240-176697/3-a Acquired: 4/17/2015 8:31:12 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.305	1876.5	1939.6	977.91	1827.4	46.146
Stddev	.504	31.6	9.4	3.23	4.0	.356
%RSD	1.0223	1.6827	.48229	.33054	.21718	.77093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47094.	47.62	468.82	184.70	240.22	981.36
Stddev	172.	.32	.87	.64	1.43	4.97
%RSD	.36621	.6650	.18585	.34722	.59732	.50666
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50264.	974.08	46364.	446.17	934.29	1226500.
Stddev	130.	2.93	358.	.52	2.06	25869.
%RSD	.25924	.30035	.77290	.11653	.22052	2.1092
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None
Value						
Range						

Sample Name: lcs 240-176697/3-a Acquired: 4/17/2015 8:31:12 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.60	448.62	477.5	1961.4	1897.6	962.19
Stddev	1.53	1.12	.5	3.7	4.4	1.34
%RSD	.32378	.25015	.1006	.18634	.23308	.13884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1858.7	480.85	484.32	F 1231.6	939.13
Stddev	3.7	.61	2.02	14.0	8.15
%RSD	.20064	.12735	.41789	1.1329	.86756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				1000.0	
Range				20.500%	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3285.2	2829.7	33652.	6231.7
Stddev	5.3	1.4	28.	41.9
%RSD	.16231	.04797	.08388	.67293

Sample Name: 240-49236-b-1-i Acquired: 4/17/2015 8:35:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6997	295.21	9.0624	103.94	379.72	.30630
Stddev	.3421	6.71	.3176	.65	.66	.08984
%RSD	12.671	2.2717	3.5042	.62941	.17277	29.331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100340.	1.044	7.5210	3.9456	6.2825	8.5943
Stddev	171.	.055	.2432	.0661	.4219	2.0549
%RSD	.17080	5.221	3.2343	1.6759	6.7147	23.910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5097.1	30.720	5658.4	F 42821.	-2.1728	F 1229000.
Stddev	50.1	1.496	24.0	239.	.2029	23651.
%RSD	.98342	4.8709	.42472	.55773	9.3374	1.9244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				15000.		500000.
Low Limit				-500000.		-500000.

Sample Name: 240-49236-b-1-i Acquired: 4/17/2015 8:35:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.002	22.369	-.0068	13.148	2.2605	.13812
Stddev	.803	.868	2.140	2.127	.2054	.31314
%RSD	4.0136	3.8801	31370.	16.182	9.0890	226.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	34.654	-1.1841	76.250	7757.1	13921.
Stddev	.786	1.8931	.320	28.7	37.
%RSD	2.2679	159.87	.42027	.36982	.26835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3310.1	2860.8	33637.	6300.3
Stddev	1.4	2.2	132.	1.9
%RSD	.04154	.07677	.39165	.03005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.741%	96.204%	96.465%	100.96%
Range				

Sample Name: SD 240-49236-b-1-i@5 Acquired: 4/17/2015 8:39:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.45942	59.709	2.9208	23.246	77.450	.08987	20542.
Stddev	.34036	12.370	.8381	.713	.754	.14949	26.
%RSD	74.086	20.716	28.693	3.0660	.97393	166.33	.12817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2143	1.6242	1.4777	1.2442	3.0876	1076.7	10.137
Stddev	.1518	.2067	.1222	.6664	1.4916	21.7	.878
%RSD	70.83	12.727	8.2717	53.556	48.311	2.0152	8.6651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1181.8	10114.	-.65310	285340.	3.9740	4.9608	-.5938
Stddev	20.3	58.	.14691	7548.	.5515	.7060	.9438
%RSD	1.7137	.57185	22.494	2.6452	13.878	14.232	159.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SD 240-49236-b-1-i@5 Acquired: 4/17/2015 8:39:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6261	.32676	-.03265	6.2194	1.3109	18.649	1558.2
Stddev	.5953	.56009	.15507	1.4806	1.2194	.191	9.4
%RSD	16.418	171.41	474.93	23.806	93.024	1.0244	.60062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2874.8
Stddev	4.3
%RSD	.14898
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3562.2	2974.3	35146.	6355.2
Stddev	9.1	5.9	123.	46.3
%RSD	.25674	.19810	.35001	.72902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.650%	100.02%	100.79%	101.84%
Range				

Sample Name: PDS 240-49236-b-1-i Acquired: 4/17/2015 8:43:43 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	108.88	5490.2	327.99	3244.4	428.72	25.769
Stddev	.26	4.9	1.31	1.2	.61	.134
%RSD	.23539	.08890	.39831	.03833	.14138	.51977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	109180.	368.3	166.08	208.77	495.25	4769.5
Stddev	124.	.2	.63	.98	1.64	11.0
%RSD	.11388	.0428	.37807	.46786	.33162	.23143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10343.	573.87	8406.8	F 42875.	99.318	F 1243200.
Stddev	32.	.37	26.7	123.	.183	9469.
%RSD	.30694	.06470	.31703	.28616	.18417	.76160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				15000.		500000.
Low Limit				-500000.		-500000.

Sample Name: PDS 240-49236-b-1-i Acquired: 4/17/2015 8:43:43 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	282.77	169.81	153.4	456.53	309.90	504.42
Stddev	.52	1.07	1.6	2.53	.47	.43
%RSD	.18508	.62857	1.045	.55430	.15196	.08457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	501.70	55.976	602.61	10745.	14076.
Stddev	4.63	.906	1.45	7.	71.
%RSD	.92347	1.6188	.24080	.06680	.50185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3330.6	2889.1	33874.	6436.4
Stddev	5.8	6.0	144.	28.1
%RSD	.17380	.20767	.42416	.43679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.303%	97.156%	97.147%	103.14%
Range				

Sample Name: 240-49236-b-1-l du Acquired: 4/17/2015 8:47:45 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8497	296.14	6.6488	105.69	385.27	.32337
Stddev	.3033	29.41	1.3198	.38	.73	.05639
%RSD	10.643	9.9321	19.850	.35802	.18872	17.439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101780.	.9183	7.8212	3.5947	5.7029	10.338
Stddev	225.	.0622	.1766	.3625	.2091	1.661
%RSD	.22084	6.773	2.2580	10.085	3.6668	16.065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5075.3	31.595	5737.0	F 43230.	-2.6765	F 1225000.
Stddev	41.4	1.679	14.0	251.	.0687	3322.
%RSD	.81604	5.3133	.24474	.58118	2.5677	.27123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				15000.		500000.
Low Limit				-500000.		-500000.

Sample Name: 240-49236-b-1-l du Acquired: 4/17/2015 8:47:45 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.677	22.599	-.5626	11.847	1.3532	-.52254
Stddev	.225	.450	.8103	1.626	.9952	.05686
%RSD	1.0879	1.9914	144.0	13.730	73.544	10.881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	35.099	.37276	77.596	7314.0	14108.
Stddev	.511	2.9046	.320	85.5	25.
%RSD	1.4549	779.22	.41188	1.1687	.17482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3319.9	2873.7	33882.	6311.1
Stddev	6.7	2.0	136.	36.7
%RSD	.20135	.07007	.40111	.58189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.009%	96.638%	97.170%	101.13%
Range				

Sample Name: 240-49236-b-1-m ms@5 Acquired: 4/17/2015 8:54:29 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.41	447.88	1008.3	225.86	9826.1	10.101	29749.
Stddev	.76	15.99	1.4	1.02	119.8	.046	45.
%RSD	.37678	3.5695	.13586	.45256	1.2188	.45993	.15207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200.8	98.642	986.10	52.255	207.42	11017.	207.04
Stddev	.7	.612	4.37	.268	1.23	46.	.90
%RSD	.3661	.62090	.44363	.51340	.59340	.41379	.43349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11004.	9681.6	198.91	289660.	102.45	969.26	102.3
Stddev	48.	52.0	.97	4527.	.57	4.12	2.0
%RSD	.43378	.53700	.48652	1.5629	.55604	.42526	1.948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49236-b-1-m ms@5 Acquired: 4/17/2015 8:54:29 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	210.38	396.65	201.55	408.72	104.11	115.92	1723.6
Stddev	3.31	3.96	.41	1.28	5.05	.58	9.6
%RSD	1.5720	.99834	.20453	.31335	4.8480	.50023	.55416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2981.2
Stddev	10.7
%RSD	.35840
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3549.3	2962.4	34977.	6326.7
Stddev	2.6	3.3	116.	24.0
%RSD	.07261	.11202	.33121	.37910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.298%	99.621%	100.31%	101.38%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 8:58:42 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1034.3	25490.	514.94	5176.5	2015.8	2032.4	51007.	512.5
Stddev	2.1	118.	.59	6.4	4.6	10.9	109.	.3
%RSD	.20274	.46369	.11431	.12419	.22882	.53546	.21460	.0583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1983.2	2014.9	2060.4	25450.	50444.	5092.5	50316.	1980.7
Stddev	.2	6.9	.7	55.	150.	5.2	327.	1.9
%RSD	.00917	.34136	.03425	.21489	.29654	.10302	.65020	.09400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2032.6	50383.	1978.5	494.25	513.2	514.78	5095.6	5120.1
Stddev	1.3	252.	3.1	1.34	1.9	5.12	7.8	6.8
%RSD	.06217	.50105	.15858	.27189	.3676	.99503	.15274	.13322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 8:58:42 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1024.9	2064.5	1991.3	5240.6	5074.4
Stddev	2.1	4.7	1.3	24.4	32.2
%RSD	.20191	.22984	.06619	.46650	.63500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3536.6	2923.7	34607.	6262.3
Stddev	3.4	3.1	50.	22.0
%RSD	.09742	.10591	.14347	.35085

Sample Name: CCB Acquired: 4/17/2015 9:02:31 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13165	2.2403	-.98129	6.6322	.41930	.23728	14.849	.0712
Stddev	.35535	13.303	.97406	.7478	.13229	.09194	4.691	.1487
%RSD	269.92	593.83	99.262	11.276	31.550	38.749	31.589	208.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23112	.30703	.32981	4.6642	81.015	3.2882	11.364	1.7718
Stddev	.23233	.39612	1.0653	1.1690	8.164	.8533	8.831	.0530
%RSD	100.53	129.02	323.01	25.064	10.077	25.950	77.708	2.9929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.38487	381.36	-.71856	1.7175	1.392	1.2993	-.05335	1.0387
Stddev	.13840	16.16	.37588	1.3632	.898	2.8138	.46918	.2347
%RSD	35.959	4.2372	52.311	79.369	64.55	216.56	879.45	22.601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 9:02:31 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.46305	-.99836	.25881	5.6934	-2.8604
Stddev	1.6950	1.9444	.18781	6.2099	3.4100
%RSD	366.05	194.76	72.564	109.07	119.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3659.3	2980.6	35284.	6281.8
Stddev	4.1	2.2	62.	19.8
%RSD	.11117	.07254	.17542	.31568

Sample Name: 240-49236-f-2-f Acquired: 4/17/2015 9:06:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12866	3747.5	7.4415	220.42	45.125	.28573	27447.	.7629
Stddev	.41087	9.9	1.0603	.19	.611	.17250	41.	.0235
%RSD	319.34	.26476	14.248	.08623	1.3536	60.372	.14809	3.084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.1773	6.6702	24.705	4013.1	15792.	12.067	22431.	512.72
Stddev	.1775	.1604	.491	12.2	41.	1.449	37.	3.37
%RSD	4.2491	2.4042	1.9890	.30513	.25783	12.007	.16512	.65757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70.860	84604.	409.26	23.075	.5056	2.8732	1.5986	126.08
Stddev	.127	34.	1.12	.465	.7963	1.2555	.8981	.94
%RSD	.17951	.04005	.27393	2.0137	157.5	43.696	56.180	.74161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49236-f-2-f Acquired: 4/17/2015 9:06:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.04233	5.9154	187.05	10565.	235.10
Stddev	.95797	3.8133	.43	45.	5.74
%RSD	2262.9	64.464	.22740	.42368	2.4418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3540.7	2954.5	35267.	6359.6
Stddev	5.9	4.7	202.	17.9
%RSD	.16581	.15883	.57410	.28180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.062%	99.356%	101.14%	101.91%
Range				

Sample Name: 240-49236-b-1-i@4 Acquired: 4/17/2015 9:10:33 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62000	57.427	3.2917	29.574	98.146	.06403	26165.
Stddev	.08331	6.398	.4489	.116	.446	.06512	36.
%RSD	13.436	11.142	13.637	.39073	.45397	101.71	.13582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2162	1.8735	1.2777	1.9466	4.3778	1208.6	8.2552
Stddev	.0655	.3141	.4296	.6188	.3191	16.8	1.5730
%RSD	30.29	16.767	33.622	31.787	7.2881	1.3918	19.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1486.3	12611.	-.81722	371340.	4.9401	7.3739	2.542
Stddev	17.2	66.	.22844	7025.	.8721	1.1713	1.310
%RSD	1.1605	.52686	27.953	1.8919	17.654	15.885	51.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49236-b-1-i@4 Acquired: 4/17/2015 9:10:33 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.5166	.30780	.19631	8.7649	1.1087	19.719	1990.1
Stddev	2.2624	.43691	.06911	1.3841	1.1792	.277	8.7
%RSD	50.091	141.95	35.204	15.792	106.36	1.4072	.43738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3679.8
Stddev	24.9
%RSD	.67559
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3547.6	2968.0	34718.	6261.2
Stddev	6.2	6.4	69.	42.7
%RSD	.17535	.21612	.19777	.68263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.250%	99.810%	99.565%	100.33%
Range				

Sample Name: SD 240-49236-b-1i@20 Acquired: 4/17/2015 9:14:56 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10162	.23065	3.4702	8.0997	19.574	-.05453	5291.8	.0212
Stddev	.21676	17.266	.5917	.3671	.121	.09505	4.5	.2144
%RSD	213.32	7485.8	17.051	4.5319	.62050	174.31	.08510	1013.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.48619	.08782	1.0786	1.7703	335.10	2.8438	296.26	2651.5
Stddev	.38336	.38017	.9682	.8690	6.89	2.4584	11.35	3.3
%RSD	78.848	432.90	89.762	49.091	2.0572	86.450	3.8305	.12424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06345	76939.	.85122	.60918	2.108	.75996	.01332	-.08958
Stddev	.16008	100.	.43017	.03748	.934	3.3927	.61400	.14186
%RSD	252.31	.12992	50.535	6.1520	44.32	446.43	4610.5	158.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-49236-b-1i@20 Acquired: 4/17/2015 9:14:56 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.0258	2.5068	4.3258	392.18	740.58
Stddev	2.1650	1.2999	.1695	4.60	6.61
%RSD	71.552	51.856	3.9194	1.1718	.89239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3635.8	2998.6	35431.	6325.2
Stddev	2.0	.7	32.	7.9
%RSD	.05562	.02178	.08988	.12542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.668%	100.84%	101.61%	101.36%
Range				

Sample Name: PDS 240-49236-b-1i@4 Acquired: 4/17/2015 9:19:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103.41	5275.9	317.97	3201.4	148.49	25.744	36479.
Stddev	.26	41.7	.48	2.4	.43	.044	91.
%RSD	.25005	.79032	.15093	.07365	.29135	.17286	.24994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	365.1	158.00	208.53	477.50	4763.7	6500.6	527.35
Stddev	.6	.33	.44	1.77	4.8	35.1	1.32
%RSD	.1543	.20934	.20924	.37064	.10040	.54067	.25114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4517.1	12570.	101.48	412910.	265.73	158.75	154.6
Stddev	21.6	38.	.06	2204.	.78	1.97	1.9
%RSD	.47908	.30194	.05579	.53385	.29332	1.2396	1.204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PDS 240-49236-b-1i@4 Acquired: 4/17/2015 9:19:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	439.73	310.56	509.35	485.84	53.667	547.92	5110.8
Stddev	1.14	1.84	.87	1.98	3.021	.96	23.9
%RSD	.25925	.59228	.17044	.40704	5.6292	.17594	.46855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	4153.9
Stddev	29.9
%RSD	.71914
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3487.0	2934.1	34621.	6292.7
Stddev	4.5	3.6	20.	38.7
%RSD	.12928	.12162	.05660	.61472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.590%	98.669%	99.287%	100.84%
Range				

Sample Name: 240-49236-b-1-l du@4 Acquired: 4/17/2015 9:23:05 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46491	60.153	4.0933	30.840	96.931	-.00457	25910.
Stddev	.34795	16.037	.8087	.250	.594	.05063	47.
%RSD	74.843	26.660	19.758	.81101	.61264	1108.8	.18261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3728	1.7339	1.0051	1.4835	3.5163	1224.3	7.8979
Stddev	.1331	.1994	.1452	.2447	1.5059	14.5	.4242
%RSD	35.71	11.502	14.443	16.493	42.825	1.1857	5.3707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1473.9	12541.	-.78489	363950.	5.1129	6.3999	1.009
Stddev	12.9	68.	.31306	5050.	.2962	1.5914	1.139
%RSD	.87599	.54059	39.885	1.3874	5.7928	24.866	112.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49236-b-1-l du@4 Acquired: 4/17/2015 9:23:05 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.1832	.35233	.07263	8.6100	1.5988	19.815	1836.2
Stddev	2.5161	.62065	.14570	1.5737	1.2122	.211	21.5
%RSD	79.044	176.16	200.61	18.277	75.816	1.0648	1.1714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3630.7
Stddev	11.7
%RSD	.32130
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3504.7	2939.5	34617.	6221.4
Stddev	7.2	3.7	71.	11.1
%RSD	.20657	.12582	.20444	.17849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.074%	98.851%	99.277%	99.694%
Range				

Sample Name: 240-49236-b-1-m ms@5 Acquired: 4/17/2015 9:27:26 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	203.35	455.77	1020.2	228.77	9960.1	10.189	30204.
Stddev	.88	18.39	6.6	.35	132.0	.087	28.
%RSD	.43167	4.0341	.65046	.15322	1.3256	.85628	.09296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202.9	99.635	996.03	52.185	209.03	11129.	209.41
Stddev	.5	.440	3.39	.925	1.67	10.	1.05
%RSD	.2304	.44125	.34061	1.7721	.79745	.09278	.50380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11263.	9825.3	199.89	297310.	103.16	981.61	102.2
Stddev	39.	55.4	.10	2535.	.68	3.91	2.0
%RSD	.34739	.56419	.05141	.85271	.65604	.39838	1.934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49236-b-1-m ms@5 Acquired: 4/17/2015 9:27:26 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	212.16	400.42	203.23	412.96	106.39	117.70	1742.5
Stddev	1.60	3.76	.09	.86	2.54	.08	11.9
%RSD	.75573	.93790	.04252	.20841	2.3859	.06885	.68008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	3025.9
Stddev	14.1
%RSD	.46496
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3521.3	2940.1	34604.	6189.6
Stddev	1.9	5.3	162.	33.5
%RSD	.05330	.17918	.46905	.54054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.530%	98.872%	99.239%	99.185%
Range				

Sample Name: CRI-1910850 Acquired: 4/17/2015 9:31:38 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6810	207.05	17.807	207.07	11.142	5.0105	5195.1	5.049
Stddev	.5189	14.23	.484	.28	.241	.0362	15.9	.170
%RSD	11.085	6.8708	2.7200	.13507	2.1655	.72159	.30692	3.369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8139	5.5784	16.447	315.55	5119.4	53.585	5225.0	16.339
Stddev	.3080	.2839	.542	3.15	51.8	.829	27.6	.093
%RSD	6.3971	5.0895	3.2980	.99894	1.0109	1.5464	.52737	.56695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.085	5374.5	24.857	10.389	12.45	20.479	101.08	50.487
Stddev	.212	35.2	.280	1.410	1.37	1.752	1.02	.380
%RSD	2.1053	.65573	1.1277	13.574	11.02	8.5576	1.0114	.75323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRI-1910850 Acquired: 4/17/2015 9:31:38 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	14.813	8.1555	40.312	507.17	49.076
Stddev	1.800	2.0634	.078	10.65	4.393
%RSD	12.151	25.300	.19353	2.1002	8.9512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3656.8	2990.3	35493.	6285.2
Stddev	7.7	6.1	115.	45.8
%RSD	.21130	.20433	.32314	.72811

Sample Name: 240-49256-c-1-j Acquired: 4/17/2015 9:35:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10483	40.055	6.8065	109.35	1607.3	.46628
Stddev	.31698	7.877	1.0648	.64	1.4	.04890
%RSD	302.37	19.666	15.643	.58443	.08904	10.486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	205360.	2.085	24.295	2.6144	14.287	48.359
Stddev	800.	.191	.484	.6906	.377	.231
%RSD	.38955	9.150	1.9931	26.415	2.6394	.47664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4311.8	-.52778	36507.	5162.8	-.16760	F 1234200.
Stddev	35.7	2.5453	194.	25.7	.22008	8889.
%RSD	.82893	482.27	.53031	.49858	131.31	.72021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49256-c-1-j Acquired: 4/17/2015 9:35:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.952	32.656	1.346	5.8892	29.142	.27896
Stddev	.742	.709	.511	2.3072	.334	.27179
%RSD	4.3752	2.1708	37.98	39.177	1.1454	97.431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.1105	-.08879	417.58	3398.7	339.33
Stddev	.7061	1.5078	5.06	5.3	6.84
%RSD	33.456	1698.2	1.2125	.15688	2.0147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.7	2822.9	33360.	6200.1
Stddev	2.9	2.1	102.	18.8
%RSD	.08904	.07269	.30694	.30373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.853%	94.929%	95.671%	99.353%
Range				

Sample Name: mb 240-176710/1-a Acquired: 4/17/2015 9:40:03 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16965	-10.005	-.07029	2.7673	1.0096	-.03307	211.17	.0833
Stddev	.13058	24.593	2.1344	.0825	.1030	.03746	2.33	.0294
%RSD	76.971	245.80	3036.4	2.9831	10.206	113.30	1.1050	35.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14102	.29090	1.3114	21.275	151.12	5.3794	49.009	.95216
Stddev	.20468	.25873	.9294	.986	41.95	1.0830	7.276	.01068
%RSD	145.14	88.939	70.866	4.6337	27.762	20.133	14.846	1.1216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19053	760.35	.38016	.14864	1.316	2.3690	31.923	.36086
Stddev	.13358	46.46	.49344	.72148	2.952	.9554	.359	.15535
%RSD	70.110	6.1108	129.80	485.38	224.3	40.330	1.1254	43.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-176710/1-a Acquired: 4/17/2015 9:40:03 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.7437	1.2166	3.4583	9.6842	2.5349
Stddev	1.3456	6.3272	.0364	6.7854	4.0371
%RSD	77.172	520.06	1.0524	70.067	159.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3651.8	3006.0	35397.	6322.0
Stddev	3.3	5.8	54.	9.5
%RSD	.09137	.19201	.15136	.15089

Sample Name: lcs 240-176710/2-a Acquired: 4/17/2015 9:44:10 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.508	1880.1	1855.5	944.00	1836.8	46.364	47553.	47.15
Stddev	.590	19.7	7.7	2.42	.4	.021	53.	.12
%RSD	1.2968	1.0452	.41601	.25669	.02187	.04524	.11106	.2446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	456.94	186.86	236.66	978.70	46641.	942.56	47078.	453.83
Stddev	.35	.26	.49	4.63	72.	.22	99.	.72
%RSD	.07567	.14161	.20800	.47273	.15528	.02297	.20998	.15853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	931.39	46870.	462.58	456.14	469.5	1848.5	1879.0	963.05
Stddev	2.26	82.	.22	1.62	4.4	2.4	4.1	1.03
%RSD	.24267	.17542	.04842	.35531	.9402	.13213	.21978	.10742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: lcs 240-176710/2-a Acquired: 4/17/2015 9:44:10 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1870.1	480.41	461.13	989.05	946.88
Stddev	2.9	7.20	.43	15.90	3.44
%RSD	.15353	1.4990	.09373	1.6073	.36344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3532.2	2921.3	34710.	6190.5
Stddev	3.8	5.8	34.	12.2
%RSD	.10875	.19696	.09688	.19720

Sample Name: CCV-1936246 Acquired: 4/17/2015 9:47:52 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1029.3	25444.	510.80	5146.2	2002.4	2022.2	50800.	510.1
Stddev	7.1	68.	6.23	42.8	6.3	4.4	91.	4.9
%RSD	.69434	.26866	1.2205	.83113	.31339	.21819	.17871	.9511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1981.7	2003.8	2051.9	25315.	50263.	5067.2	50334.	1980.0
Stddev	18.9	19.2	11.9	73.	195.	9.3	109.	18.1
%RSD	.95514	.95777	.57934	.28908	.38811	.18373	.21717	.91294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2027.3	50511.	1977.7	494.25	507.8	516.01	5083.1	5071.5
Stddev	17.1	202.	19.5	3.71	3.8	3.54	45.1	67.8
%RSD	.84141	.39971	.98633	.74988	.7454	.68673	.88704	1.3370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 9:47:52 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1026.2	2048.9	1992.2	5196.8	5038.9
Stddev	11.4	4.5	18.5	16.1	12.2
%RSD	1.1092	.22054	.92966	.30952	.24129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3535.9	2929.4	34740.	6260.1
Stddev	26.7	19.2	365.	10.0
%RSD	.75372	.65649	1.0508	.15905

Sample Name: CCB Acquired: 4/17/2015 9:51:41 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11544	-2.6089	.41426	6.6498	.27666	.22182	14.890	.0837
Stddev	.41741	10.067	1.2191	.9364	.20494	.04238	2.455	.0192
%RSD	361.58	385.89	294.28	14.081	74.078	19.106	16.486	22.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04036	.36966	.13728	5.9907	107.24	3.4930	-9.3985	.25688
Stddev	.38029	.32210	.74779	1.7441	25.52	.3421	20.896	.06484
%RSD	942.29	87.134	544.73	29.113	23.799	9.7937	222.34	25.240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47943	264.64	-.23867	1.3159	1.757	.15036	.58745	1.2225
Stddev	.27232	14.10	.04727	.5232	.477	1.7934	.81687	.1509
%RSD	56.800	5.3282	19.807	39.757	27.14	1192.7	139.05	12.346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 9:51:41 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.64706	-1.3570	.14534	-2.7476	3.9743
Stddev	.98122	1.4329	.09975	8.9175	5.5312
%RSD	151.64	105.59	68.633	324.55	139.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3647.5	2970.0	34860.	6206.8
Stddev	15.1	15.0	109.	16.9
%RSD	.41360	.50667	.31255	.27279

Sample Name: 240-49357-e-1-a Acquired: 4/17/2015 9:55:48 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.8075	145750.	31.920	6.8641	492.93	6.1556	23338.
Stddev	.2777	240.	1.242	.4721	1.55	.0414	46.
%RSD	15.362	.16460	3.8919	6.8783	.31523	.67263	.19683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6221	136.64	425.54	306.32	240820.	18793.	234.65
Stddev	.1112	.52	2.01	.65	173.	20.	1.21
%RSD	17.87	.37970	.47209	.21108	.07166	.10605	.51482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	86815.	2759.9	3.4078	1325.5	374.63	67.841	.0241
Stddev	336.	12.2	.5001	7.5	1.50	.601	2.073
%RSD	.38653	.44316	14.676	.56275	.40119	.88629	8589.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49357-e-1-a Acquired: 4/17/2015 9:55:48 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01738	37.791	6408.6	1.6701	460.65	449.69	2202.5
Stddev	3.2865	1.439	28.0	.6861	4.74	1.07	6.8
%RSD	18905.	3.8067	.43698	41.082	1.0286	.23750	.30825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	121.69
Stddev	2.71
%RSD	2.2278
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3552.5	3283.9	38973.	7063.9
Stddev	5.7	4.3	155.	9.2
%RSD	.16065	.13130	.39649	.13067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.384%	110.43%	111.77%	113.20%
Range				

Sample Name: 240-49357-e-2-a Acquired: 4/17/2015 9:59:57 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49145	40052.	56.202	13.544	141.64	1.9247	20936.	.6020
Stddev	.33489	113.	.718	.263	.21	.0734	20.	.2531
%RSD	68.143	.28210	1.2772	1.9383	.15138	3.8113	.09505	42.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.019	166.99	162.66	75864.	6187.0	88.667	19650.	1349.6
Stddev	.359	.57	.19	45.	32.3	.293	62.	2.7
%RSD	1.1944	.33858	.11577	.05970	.52222	.33005	.31536	.19656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.1341	2279.9	96.705	99.559	1.774	2.4181	36.936	2103.1
Stddev	.2008	21.2	.194	2.367	1.626	2.1610	.289	2.1
%RSD	4.8576	.92996	.20033	2.3772	91.66	89.369	.78149	.10051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49357-e-2-a Acquired: 4/17/2015 9:59:57 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.6868	122.07	439.78	2583.4	84.474
Stddev	1.3474	1.25	.28	8.6	4.181
%RSD	79.879	1.0255	.06301	.33326	4.9495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3623.2	3086.0	36526.	6617.3
Stddev	11.8	10.4	56.	21.7
%RSD	.32645	.33641	.15256	.32791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.323%	103.78%	104.75%	106.04%
Range				

Sample Name: mb 240-176765/1-a Acquired: 4/17/2015 10:03:51 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07578	-.43303	1.1588	3.7354	1.3978	-.01186	413.85	-.0800
Stddev	.28039	7.6637	.1358	.2999	.1020	.06106	2.99	.1299
%RSD	370.01	1769.8	11.720	8.0299	7.2937	514.87	.72226	162.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07550	.39109	1.3135	33.136	18.370	-.05755	77.542	.42476
Stddev	.09073	.24462	.2483	3.730	30.447	1.2983	35.334	.02109
%RSD	120.17	62.550	18.903	11.258	165.75	2256.2	45.567	4.9646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07969	200.33	-.52971	1.8999	2.075	1.0353	-.05014	.71606
Stddev	.22888	8.14	.12741	.9177	1.407	1.0771	.99009	.08109
%RSD	287.23	4.0616	24.053	48.305	67.83	104.04	1974.8	11.324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-176765/1-a Acquired: 4/17/2015 10:03:51 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.1087	-.98004	4.6663	4.7731	-.68761
Stddev	.7325	.79864	.0702	3.4611	2.0643
%RSD	34.735	81.491	1.5040	72.512	300.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3703.5	3039.4	35969.	6487.6
Stddev	7.9	2.2	146.	21.4
%RSD	.21446	.07183	.40486	.32946

Sample Name: lcs 240-176765/2-a Acquired: 4/17/2015 10:08:00 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.992	1941.9	1955.6	993.74	1874.5	47.108	49170.	49.48
Stddev	.333	11.9	4.5	1.33	2.3	.065	63.	.07
%RSD	.65262	.61109	.23122	.13413	.12402	.13862	.12814	.1387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	469.22	192.13	243.37	996.50	48363.	952.82	48622.	468.40
Stddev	.29	.80	.47	2.42	94.	1.80	72.	.73
%RSD	.06282	.41792	.19266	.24329	.19417	.18845	.14840	.15658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	948.38	48689.	474.76	469.21	494.2	2043.4	1908.9	980.05
Stddev	1.98	51.	1.07	1.92	2.5	7.7	.5	.77
%RSD	.20930	.10562	.22578	.40875	.5154	.37764	.02747	.07901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: lcs 240-176765/2-a Acquired: 4/17/2015 10:08:00 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1944.2	491.74	478.32	1008.7	963.15
Stddev	3.6	3.25	.49	8.0	5.46
%RSD	.18264	.66012	.10227	.78902	.56669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3595.6	2974.1	35181.	6349.6
Stddev	8.3	7.9	84.	22.3
%RSD	.23086	.26594	.23963	.35157

Sample Name: 240-49400-a-1-b Acquired: 4/17/2015 10:11:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.2287	2444.3	15.899	113.44	141.03	.15400	63803.
Stddev	.5451	17.7	1.590	.66	.36	.02747	139.
%RSD	16.884	.72248	9.9991	.58031	.25579	17.836	.21731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.52	5.4522	60.727	204.27	9284.0	119430.	12.728
Stddev	.33	.3131	.270	1.26	14.1	348.	1.416
%RSD	.3537	5.7431	.44433	.61870	.15212	.29118	11.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11359.	308.40	12.049	271880.	57.072	1194.3	26.29
Stddev	48.	.33	.203	921.	.074	5.7	1.62
%RSD	.41941	.10551	1.6857	.33888	.12901	.47574	6.165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49400-a-1-b Acquired: 4/17/2015 10:11:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0563	15.101	56.261	.65225	10.377	2541.3	7734.3
Stddev	1.6682	.320	.068	1.9155	3.652	7.8	29.0
%RSD	23.642	2.1194	.12143	293.67	35.193	.30512	.37517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	236.08
Stddev	2.82
%RSD	1.1929
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3523.8	2951.0	34524.	6354.9
Stddev	16.0	11.9	12.	32.6
%RSD	.45479	.40272	.03372	.51314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.597%	99.240%	99.010%	101.83%
Range				

Sample Name: 240-49400-a-2-b Acquired: 4/17/2015 10:15:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6919	1732.1	8.1837	93.589	84.847	.11813	56946.
Stddev	.4518	2.3	.9139	.673	.254	.09245	65.
%RSD	16.783	.13158	11.167	.71925	.29908	78.262	.11453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	188.8	2.5448	46.231	148.38	5977.5	94840.	12.633
Stddev	.4	.1999	.242	1.11	19.1	46.	2.626
%RSD	.2161	7.8549	.52331	.74636	.31914	.04823	20.787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9786.2	189.59	8.3543	201340.	26.699	776.66	15.06
Stddev	26.0	.33	.0981	856.	.346	1.32	1.44
%RSD	.26571	.17662	1.1739	.42529	1.2943	.17005	9.572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49400-a-2-b Acquired: 4/17/2015 10:15:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9260	12.824	42.757	1.9616	6.7306	1861.1	6805.0
Stddev	1.0395	.399	.266	1.3809	4.5782	4.3	4.9
%RSD	53.970	3.1104	.62189	70.397	68.021	.22957	.07132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	218.71
Stddev	3.38
%RSD	1.5473
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3556.9	2958.4	35073.	6406.7
Stddev	5.0	5.3	114.	26.0
%RSD	.14057	.17978	.32606	.40539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.505%	99.488%	100.59%	102.66%
Range				

Sample Name: 240-49400-a-3-b Acquired: 4/17/2015 10:19:49 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8373	2200.0	17.247	109.62	116.25	.22180	64403.
Stddev	.2603	22.5	2.600	.47	.18	.06996	138.
%RSD	14.168	1.0237	15.073	.42845	.15392	31.544	.21350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74.64	4.2398	51.457	202.19	8414.3	110010.	12.862
Stddev	.44	.3575	.286	.68	16.9	365.	1.161
%RSD	.5859	8.4310	.55628	.33817	.20125	.33165	9.0297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12356.	298.99	10.017	256170.	80.291	1708.4	15.41
Stddev	109.	.72	.096	3153.	.729	3.9	2.73
%RSD	.87930	.24111	.95470	1.2307	.90851	.22740	17.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49400-a-3-b Acquired: 4/17/2015 10:19:49 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.1431	13.681	51.662	2.6021	7.2267	3110.0	6912.1
Stddev	1.6076	.265	.257	1.4054	2.6103	7.9	16.1
%RSD	51.147	1.9345	.49821	54.009	36.121	.25296	.23284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	232.79
Stddev	7.53
%RSD	3.2354
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3536.0	2958.6	34721.	6393.1
Stddev	4.1	3.3	304.	16.0
%RSD	.11515	.11231	.87681	.24990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.933%	99.493%	99.574%	102.45%
Range				

Sample Name: CRI-1919850 Acquired: 4/17/2015 10:23:54 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.258	213.58	18.688	206.49	201.42	5.0599	5178.3	5.050
Stddev	.443	9.34	.951	.82	.32	.0114	4.9	.196
%RSD	4.3162	4.3714	5.0866	.39559	.16127	.22592	.09373	3.881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.7167	10.868	22.578	213.14	5189.0	51.152	5222.6	15.421
Stddev	.3493	.351	1.227	1.72	8.5	1.360	34.4	.056
%RSD	3.5948	3.2259	5.4335	.80479	.16416	2.6584	.65913	.36178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.303	5241.2	40.197	11.194	21.81	21.872	100.94	50.217
Stddev	.045	23.3	.579	1.356	1.25	.209	.63	.260
%RSD	.11205	.44460	1.4396	12.109	5.723	.95421	.62708	.51806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CRI-1919850 Acquired: 4/17/2015 10:23:54 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	20.741	11.057	57.324	510.59	51.009
Stddev	1.227	1.256	.218	1.51	1.277
%RSD	5.9146	11.363	.37979	.29648	2.5037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3701.8	3025.1	35288.	6321.7
Stddev	10.3	4.7	233.	15.2
%RSD	.27923	.15702	.65927	.24023

Sample Name: Xmb 240-176664/1-a Acquired: 4/17/2015 10:27:51 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08635	-1.0496	-.07798	4.9200	.76909	.03222	291.46
Stddev	.53463	8.7466	1.1192	.2224	.17968	.08554	2.00
%RSD	619.17	833.36	1435.1	4.5211	23.363	265.47	.68582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0382	.21448	.03714	.28718	17.976	199.65	.23375
Stddev	.1231	.22162	.14850	1.3245	2.747	9.67	.31296
%RSD	322.7	103.33	399.87	461.22	15.281	4.8427	133.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.557	F 86.714	-.10321	236.49	-.86656	-.35756	2.930
Stddev	14.356	.220	.06879	7.01	.11508	1.4646	2.456
%RSD	60.942	.25371	66.649	2.9650	13.280	409.61	83.83
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10.000					
Low Limit		-1000.0					

Sample Name: Xmb 240-176664/1-a Acquired: 4/17/2015 10:27:51 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26124	.99917	.04026	1.0390	-1.9880	3.4837	-.69220
Stddev	1.4068	.59435	.10280	.3618	3.9792	.0683	2.0240
%RSD	538.49	59.484	255.36	34.828	200.16	1.9620	292.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-1.3327
Stddev	4.6695
%RSD	350.37
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3735.4	3064.0	35882.	6503.9
Stddev	1.9	.8	177.	25.7
%RSD	.05186	.02471	.49380	.39480

Sample Name: 190-7045-a-1-a Acquired: 4/17/2015 10:31:59 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01833	-.97239	-.09779	19.810	-.17031	-.01768	16.375	-.0644
Stddev	.16912	9.4394	.80707	.111	.16984	.07861	1.519	.1279
%RSD	922.58	970.74	825.33	.55845	99.722	444.77	9.2751	198.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35146	.23043	.78809	3.6394	87.731	-.26093	-16.210	.14714
Stddev	.21923	.26267	.24506	.2872	14.893	1.2593	21.211	.01410
%RSD	62.377	113.99	31.095	7.8899	16.975	482.62	130.85	9.5820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.20810	165.33	-.34668	-.03243	2.843	.83833	.12839	.10905
Stddev	.19095	8.02	.35114	.80003	2.674	1.5883	.15533	.14368
%RSD	91.758	4.8522	101.29	2466.9	94.07	189.46	120.98	131.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 190-7045-a-1-a Acquired: 4/17/2015 10:31:59 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.13165	-.07135	1.5259	61.304	5.6772
Stddev	1.6750	2.0773	.1262	3.629	3.3539
%RSD	1272.3	2911.5	8.2699	5.9192	59.076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3705.1	3042.6	36023.	6491.2
Stddev	6.0	2.9	169.	32.6
%RSD	.16102	.09421	.46881	.50203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.57%	102.32%	103.31%	104.02%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 10:36:08 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1041.6	25607.	520.77	5221.4	2030.8	2043.4	51318.	515.6
Stddev	1.1	9.	3.21	5.5	.5	4.6	3.	1.2
%RSD	.10179	.03644	.61727	.10508	.02508	.22337	.00669	.2261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1996.8	2039.0	2079.8	25508.	50719.	5089.8	50509.	1996.5
Stddev	2.9	5.9	2.0	88.	89.	11.7	145.	1.9
%RSD	.14704	.29074	.09397	.34567	.17643	.23072	.28651	.09485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2035.2	51101.	1994.1	498.02	515.7	525.22	5155.2	5111.1
Stddev	4.6	113.	2.1	2.32	1.3	2.67	3.5	21.8
%RSD	.22751	.22047	.10368	.46573	.2612	.50746	.06841	.42702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 10:36:08 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1039.7	2080.7	2012.1	5231.4	5113.7
Stddev	4.9	5.4	1.8	28.1	7.7
%RSD	.47364	.26088	.08878	.53656	.15056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.5	2919.3	34668.	6263.0
Stddev	9.9	6.9	99.	7.4
%RSD	.28090	.23482	.28462	.11838

Sample Name: CCB Acquired: 4/17/2015 10:39:57 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27265	-23.415	1.3791	5.6386	-.04647	.25906	12.351	-.0053
Stddev	.30743	7.590	.8784	.8883	.04576	.08920	1.781	.1002
%RSD	112.76	32.416	63.693	15.754	98.476	34.433	14.421	1905.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09791	.89723	.91320	7.1747	117.00	1.6546	4.2436	.28961
Stddev	.02263	.54106	1.9121	2.0322	33.74	1.4642	15.865	.05814
%RSD	23.117	60.304	209.38	28.324	28.834	88.492	373.87	20.074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.53023	138.49	-.20242	1.2280	2.622	-2.3993	.85259	1.2984
Stddev	.24642	9.43	.36847	1.7988	.790	.3165	.94671	.1670
%RSD	46.475	6.8097	182.03	146.48	30.13	13.193	111.04	12.862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 10:39:57 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.61206	1.2070	.23987	-2.9516	-.11331
Stddev	1.0488	1.0532	.08337	5.9865	1.9125
%RSD	171.35	87.262	34.759	202.82	1687.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3697.2	3009.7	35334.	6319.1
Stddev	11.6	6.9	88.	27.1
%RSD	.31355	.23088	.24795	.42948

Sample Name: mb 240-176683/1-a Acquired: 4/17/2015 10:44:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07856	-10.823	2.4359	6.8772	1.0126	.08552	328.42	-.1339
Stddev	.06839	8.620	1.0852	.0846	.2045	.06582	2.84	.1171
%RSD	87.051	79.643	44.551	1.2303	20.192	76.967	.86336	87.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01498	.00908	.57079	14.866	76.830	-.03098	48.166	.29937
Stddev	.05380	.37466	1.5671	2.254	26.334	2.0149	22.943	.01556
%RSD	359.20	4125.8	274.56	15.164	34.276	6504.6	47.635	5.1981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00760	158.07	-.03315	2.3597	2.701	-.55119	-.12186	.25950
Stddev	.31377	5.41	.24944	.8944	3.802	1.8769	.11862	.13712
%RSD	4129.9	3.4206	752.57	37.901	140.8	340.52	97.339	52.841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-176683/1-a Acquired: 4/17/2015 10:44:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.7151	2.8789	3.5043	-6.5423	1.2401
Stddev	1.2319	1.3602	.1350	8.9140	9.7353
%RSD	45.375	47.246	3.8533	136.25	785.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3717.0	3052.8	36011.	6494.4
Stddev	6.4	7.1	124.	30.5
%RSD	.17294	.23267	.34418	.47038

Sample Name: lcs 240-176683/2-a Acquired: 4/17/2015 10:48:11 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.872	1811.6	1838.3	939.47	1767.3	44.406	45758.	46.86
Stddev	.479	7.2	.5	.26	3.0	.075	94.	.04
%RSD	1.0209	.39646	.02521	.02797	.16714	.16960	.20509	.0897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	439.57	181.97	227.44	926.98	45073.	893.59	45092.	438.97
Stddev	.86	.42	.61	3.81	168.	1.59	125.	.85
%RSD	.19472	.23018	.26966	.41071	.37354	.17814	.27785	.19445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	885.90	45391.	444.02	440.60	463.9	1935.9	1805.4	921.91
Stddev	1.36	168.	.28	1.09	.7	2.2	3.4	.46
%RSD	.15325	.37063	.06218	.24649	.1468	.11178	.18646	.04977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: lcs 240-176683/2-a Acquired: 4/17/2015 10:48:11 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1837.2	459.80	448.96	932.53	908.48
Stddev	3.3	7.21	1.11	8.83	5.19
%RSD	.17728	1.5682	.24683	.94679	.57115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3633.0	3001.2	35189.	6405.3
Stddev	5.4	.6	180.	20.8
%RSD	.14922	.01958	.51044	.32475

Sample Name: 240-49380-j-1-a Acquired: 4/17/2015 10:51:54 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.62196	-11.843	7.7068	42.551	221.45	.00355	86668.	-.0002
Stddev	.48143	13.534	.1590	.769	.34	.05865	189.	.1089
%RSD	77.406	114.28	2.0633	1.8083	.15283	1652.9	.21778	46700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06982	.99377	11.155	838.82	2402.5	.68449	15703.	407.43
Stddev	.08704	.64921	.251	3.81	20.8	1.6910	33.	.70
%RSD	124.65	65.328	2.2481	.45476	.86402	247.04	.20712	.17273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7525	21641.	.37877	2.8136	.0371	-.61869	.27096	.60467
Stddev	.0947	45.	.27241	1.6345	1.932	1.7359	.62279	.21237
%RSD	5.4035	.20765	71.921	58.095	5212.	280.58	229.85	35.121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49380-j-1-a Acquired: 4/17/2015 10:51:54 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.7997	2.0591	5.6945	6662.4	173.56
Stddev	.6288	1.7123	.0983	38.2	.93
%RSD	34.937	83.158	1.7268	.57404	.53559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3674.7	2997.8	35602.	6437.8
Stddev	3.7	1.1	61.	46.4
%RSD	.09940	.03523	.17235	.72115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.74%	100.81%	102.10%	103.16%
Range				

Sample Name: SD 240-49380-j-1-a@5 Acquired: 4/17/2015 10:55:58 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44977	-16.626	2.6993	9.7504	44.940	.01634	17557.	-.0145
Stddev	.17788	11.127	1.5476	.3032	.253	.02796	32.	.0930
%RSD	39.549	66.927	57.334	3.1093	.56307	171.07	.18220	641.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18554	.30922	2.5349	170.74	502.29	1.1902	3207.2	83.310
Stddev	.27503	.26991	.4676	1.06	28.56	.4023	22.5	.326
%RSD	148.23	87.288	18.446	.62126	5.6860	33.802	.70151	.39190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27923	4371.0	-.27913	.63633	2.299	.21032	.13719	.21685
Stddev	.14698	16.7	.27714	1.7291	2.557	2.3402	.58625	.13668
%RSD	52.636	.38148	99.284	271.73	111.2	1112.7	427.34	63.029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-49380-j-1-a@5 Acquired: 4/17/2015 10:55:58 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.93339	2.4617	4.0321	1321.0	35.876
Stddev	1.3155	2.7728	.0606	1.8	2.269
%RSD	140.94	112.63	1.5038	.13585	6.3235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3685.8	3004.3	35485.	6363.1
Stddev	2.5	5.6	161.	8.9
%RSD	.06876	.18737	.45391	.14063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	101.03%	101.77%	101.97%
Range				

Sample Name: PDS 240-49380-j-1-a Acquired: 4/17/2015 11:00:04 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106.41	5396.1	335.61	3391.5	269.75	26.787	95716.	381.3
Stddev	.31	24.7	1.20	3.9	.29	.057	150.	.9
%RSD	.28877	.45746	.35680	.11638	.10651	.21140	.15717	.2253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	158.11	217.19	502.29	5679.5	7642.7	535.09	18443.	425.50
Stddev	.15	.93	1.86	8.2	17.8	2.80	15.	.25
%RSD	.09245	.43033	.36936	.14401	.23256	.52251	.08013	.05915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105.43	74827.	264.68	163.09	163.1	459.54	315.39	521.64
Stddev	.29	175.	.55	1.47	2.1	1.61	1.29	.44
%RSD	.27397	.23445	.20683	.90438	1.261	.35107	.40869	.08458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: PDS 240-49380-j-1-a Acquired: 4/17/2015 11:00:04 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	492.84	55.272	533.23	9760.1	704.48
Stddev	1.39	.684	1.47	39.4	5.41
%RSD	.28175	1.2373	.27630	.40339	.76795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3600.6	2961.1	34882.	6365.3
Stddev	2.4	4.1	127.	20.7
%RSD	.06724	.13929	.36405	.32454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.703%	99.579%	100.04%	102.00%
Range				

Sample Name: 240-49380-j-1-b ms Acquired: 4/17/2015 11:03:49 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.231	2055.0	2118.4	1124.2	2249.3	50.471	137750.
Stddev	.447	22.4	2.2	.9	3.1	.147	77.
%RSD	.82368	1.0923	.10561	.07665	.13855	.29158	.05576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.47	499.33	206.27	273.84	1877.8	53921.	1026.9
Stddev	.08	.85	.32	.81	12.8	54.	.9
%RSD	.1577	.17036	.15277	.29577	.68405	.09953	.08327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66055.	906.05	1021.5	73029.	504.23	500.11	537.5
Stddev	79.	1.36	1.4	48.	.66	.91	.9
%RSD	.11952	.15052	.14117	.06533	.13026	.18161	.1645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49380-j-1-b ms Acquired: 4/17/2015 11:03:49 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2199.8	2062.3	1051.8	2099.8	525.74	507.50	7838.1
Stddev	5.3	2.9	.6	5.0	4.08	1.26	17.7
%RSD	.23916	.14288	.05707	.23963	.77669	.24744	.22537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1196.9
Stddev	9.1
%RSD	.76224
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3541.6	2938.3	34954.	6351.1
Stddev	13.6	8.4	190.	10.9
%RSD	.38482	.28679	.54404	.17157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.086%	98.811%	100.24%	101.77%
Range				

Sample Name: 240-49380-j-1-c msd Acquired: 4/17/2015 11:07:30 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.250	2030.8	2107.1	1117.1	2217.2	50.043	135920.
Stddev	.518	27.2	4.7	1.8	3.6	.144	83.
%RSD	.97220	1.3377	.22278	.16281	.16140	.28714	.06143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.18	494.89	203.84	268.83	1847.7	53532.	1011.5
Stddev	.18	.04	.82	1.16	8.1	7.	1.4
%RSD	.3332	.00898	.40121	.43225	.44099	.01377	.13657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	65733.	889.23	1011.1	72480.	500.01	499.04	533.9
Stddev	89.	.91	.2	158.	.99	3.49	1.1
%RSD	.13558	.10272	.01589	.21794	.19870	.69875	.1978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49380-j-1-c msd Acquired: 4/17/2015 11:07:30 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2191.7	2047.3	1040.8	2071.2	519.57	506.39	7733.6
Stddev	4.2	2.7	1.3	3.3	5.53	.53	18.0
%RSD	.19123	.13098	.12302	.15987	1.0651	.10374	.23317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1187.6
Stddev	4.0
%RSD	.33696
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3507.9	2912.1	34916.	6345.3
Stddev	8.3	8.7	64.	20.6
%RSD	.23701	.29815	.18267	.32393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.162%	97.930%	100.13%	101.68%
Range				

Sample Name: 240-49380-j-2-a Acquired: 4/17/2015 11:11:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04655	-15.137	6.7206	48.055	174.41	.00543	86445.	.2196
Stddev	.29370	4.972	.7870	.345	.32	.09485	49.	.2096
%RSD	630.90	32.845	11.710	.71854	.18105	1745.4	.05669	95.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09488	1.3866	15.196	1999.7	5372.6	-1.2218	15776.	292.85
Stddev	.08720	.4607	.104	7.9	25.4	.6489	71.	.85
%RSD	91.902	33.225	.68128	.39516	.47331	53.109	.45172	.29102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.9933	29271.	.44089	9.2847	1.683	.06102	.49980	.54947
Stddev	.1388	99.	.33287	.9825	.591	.13788	.36124	.13995
%RSD	3.4753	.33783	75.499	10.582	35.08	225.96	72.278	25.470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49380-j-2-a Acquired: 4/17/2015 11:11:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.9451	-.70206	62.649	5674.4	168.51
Stddev	.8614	.38372	.235	4.8	1.66
%RSD	21.834	54.656	.37466	.08436	.98714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3651.2	2982.7	35185.	6347.2
Stddev	4.6	5.3	52.	11.9
%RSD	.12494	.17847	.14909	.18772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	100.31%	100.91%	101.71%
Range				

Sample Name: 240-49380-j-3-a Acquired: 4/17/2015 11:15:13 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01407	610.37	6.9043	30.414	92.688	-.03482	66485.	.1063
Stddev	.32161	37.04	2.8346	.490	1.413	.07979	962.	.0460
%RSD	2285.3	6.0684	41.056	1.6116	1.5247	229.17	1.4473	43.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08765	1.6984	23.865	4102.9	5805.8	-.71420	15673.	344.47
Stddev	.10417	.2632	.755	44.5	121.2	.22966	302.	2.31
%RSD	118.85	15.496	3.1631	1.0849	2.0868	32.157	1.9251	.66942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0544	18422.	.78344	5.7888	3.729	1.1077	.89479	15.838
Stddev	.0876	281.	.58410	1.0127	3.705	.9280	.35578	.264
%RSD	8.3110	1.5235	74.555	17.494	99.36	83.774	39.761	1.6644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49380-j-3-a Acquired: 4/17/2015 11:15:13 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.0547	-.10746	58.925	4962.6	148.65
Stddev	2.1626	3.0404	.100	78.7	9.35
%RSD	105.25	2829.3	.16965	1.5859	6.2903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3670.2	2997.9	35430.	6392.5
Stddev	11.9	9.5	42.	72.3
%RSD	.32439	.31776	.11940	1.1314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.61%	100.82%	101.61%	102.44%
Range				

Sample Name: 240-49380-j-4-a Acquired: 4/17/2015 11:19:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18325	.99320	6.9592	42.050	148.59	-.06571	84725.	.0678
Stddev	.32183	15.449	.9840	.158	.35	.04266	212.	.0465
%RSD	175.62	1555.5	14.140	.37469	.23286	64.929	.25016	68.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24910	.97399	4.9815	6014.0	1506.0	-1.7853	13198.	443.73
Stddev	.17880	.16463	.8173	21.5	48.6	.2701	78.	1.76
%RSD	71.778	16.903	16.407	.35803	3.2292	15.127	.59165	.39597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.56117	29358.	-.40623	.66446	.7571	.76161	.52833	.20456
Stddev	.11092	93.	.90959	1.4011	2.057	.03380	.05616	.05943
%RSD	19.766	.31671	223.91	210.86	271.7	4.4377	10.631	29.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49380-j-4-a Acquired: 4/17/2015 11:19:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.5962	-.64569	6.8910	7038.1	193.71
Stddev	.7360	1.9331	.1128	12.9	3.61
%RSD	28.350	299.39	1.6366	.18271	1.8646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3683.7	3005.8	35456.	6474.1
Stddev	2.9	2.2	97.	12.9
%RSD	.07986	.07252	.27327	.19871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.98%	101.08%	101.68%	103.74%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 11:23:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1044.7	25482.	519.56	5243.4	2035.4	2041.7	51175.	516.6
Stddev	1.7	82.	.97	8.0	2.0	4.3	52.	.3
%RSD	.16004	.32278	.18594	.15262	.09751	.21018	.10197	.0584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1988.7	2050.8	2080.3	25427.	50654.	5072.2	50417.	1985.5
Stddev	3.0	5.6	2.9	98.	78.	8.5	230.	8.3
%RSD	.14898	.27073	.14087	.38529	.15427	.16838	.45600	.41607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2033.1	51001.	1983.6	498.12	516.8	525.80	5151.8	5152.6
Stddev	3.5	129.	3.3	1.50	.8	4.41	8.8	28.1
%RSD	.17209	.25323	.16796	.30054	.1631	.83833	.17020	.54600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 11:23:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1045.0	2090.8	1995.7	5209.4	5111.0
Stddev	4.6	1.3	3.5	48.6	18.7
%RSD	.43773	.05979	.17306	.93220	.36614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3555.6	2937.1	34603.	6330.6
Stddev	6.8	3.1	104.	43.4
%RSD	.19263	.10706	.30063	.68568

Sample Name: CCB Acquired: 4/17/2015 11:27:08 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05563	-14.133	.39899	6.6072	.05669	.32995	23.126	.0049
Stddev	.59295	10.297	2.4638	.5291	.16830	.07197	1.110	.3273
%RSD	1065.9	72.857	617.52	8.0075	296.85	21.813	4.8001	6738.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28406	.40074	.37690	4.8868	50.217	.98665	.56674	.21309
Stddev	.09370	.05895	1.0523	2.4027	46.126	.96424	17.802	.01275
%RSD	32.987	14.711	279.19	49.166	91.854	97.729	3141.2	5.9835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62004	103.95	-.30548	1.2129	1.931	-1.0123	.33131	1.0233
Stddev	.17216	3.55	.70276	3.7191	.798	.1282	.84583	.1282
%RSD	27.766	3.4113	230.05	306.63	41.33	12.660	255.30	12.531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 11:27:08 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.47739	-1.3009	.16132	1.3017	5.2841
Stddev	1.3502	2.2734	.05646	7.1326	4.7987
%RSD	282.83	174.76	35.000	547.94	90.814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3689.3	3001.4	35310.	6366.9
Stddev	2.4	1.9	123.	10.5
%RSD	.06499	.06376	.34883	.16461

Sample Name: 240-49380-j-5-a Acquired: 4/17/2015 11:31:16 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47053	-9.7960	7.5364	44.258	188.48	.03431	85560.	.0365
Stddev	.13431	12.906	1.3545	.235	.24	.04154	87.	.0439
%RSD	28.543	131.75	17.972	.52992	.12687	121.10	.10156	120.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18478	.81794	24.549	632.71	1789.9	-.99388	14713.	328.95
Stddev	.38060	.57780	1.227	.99	32.2	.16018	53.	.33
%RSD	205.98	70.641	4.9982	.15606	1.7999	16.117	.36302	.09944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.71138	8085.7	.66114	2.4280	2.516	-.47497	.01256	.32547
Stddev	.18121	4.3	.63114	.6451	.808	3.3393	.36181	.31590
%RSD	25.473	.05303	95.461	26.570	32.11	703.06	2880.2	97.059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49380-j-5-a Acquired: 4/17/2015 11:31:16 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.8169	2.0819	4.3570	6489.1	161.76
Stddev	1.1453	2.3896	.1486	14.8	3.89
%RSD	40.658	114.78	3.4112	.22829	2.4020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3678.2	2994.3	35566.	6465.7
Stddev	10.6	11.0	45.	27.1
%RSD	.28889	.36876	.12733	.41855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.83%	100.70%	102.00%	103.61%
Range				

Sample Name: 240-49380-j-6-a Acquired: 4/17/2015 11:35:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32967	-14.494	5.3321	38.510	153.59	.02297	83794.	-.0451
Stddev	.54097	5.053	2.4392	.388	.25	.06082	58.	.0955
%RSD	164.09	34.865	45.745	1.0079	.16595	264.75	.06878	212.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28989	.66464	12.664	1485.6	13476.	1.0110	17251.	237.94
Stddev	.36846	.37518	.311	5.9	97.	2.2690	88.	.51
%RSD	127.10	56.448	2.4594	.39509	.71832	224.44	.51166	.21408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.76257	19417.	.15460	4.4704	2.992	-2.1256	.00947	.60257
Stddev	.11131	49.	.26542	1.2704	1.425	1.7625	.89536	.07675
%RSD	14.597	.25144	171.69	28.417	47.63	82.918	9457.3	12.738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49380-j-6-a Acquired: 4/17/2015 11:35:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.0462	-.38383	13.739	5623.5	176.91
Stddev	.5406	2.1997	.111	13.5	3.57
%RSD	17.747	573.09	.80733	.24051	2.0192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3657.0	2980.6	35152.	6389.0
Stddev	8.3	11.2	76.	7.6
%RSD	.22645	.37408	.21545	.11926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.25%	100.24%	100.81%	102.38%
Range				

Sample Name: 240-49316-f-1-a@10 Acquired: 4/17/2015 11:39:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.71492	2903.2	13.860	14.128	928.22	.33604	91027.	.1216
Stddev	.14236	24.3	2.471	.427	.78	.02418	122.	.2139
%RSD	19.913	.83694	17.827	3.0217	.08455	7.1947	.13349	175.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.1746	14.307	41.871	12081.	1163.0	2.0944	3710.0	382.93
Stddev	.3063	.157	1.295	15.	12.7	.6545	11.8	.99
%RSD	5.9190	1.0975	3.0929	.12623	1.0910	31.252	.31750	.25870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.1252	774.22	17.921	64.577	3.510	.50368	2.7769	23.508
Stddev	.0534	10.70	.383	1.195	1.202	1.8170	.3282	.289
%RSD	1.7084	1.3815	2.1369	1.8498	34.25	360.74	11.817	1.2305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49316-f-1-a@10 Acquired: 4/17/2015 11:39:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.78315	11.943	72.431	552.09	26986.
Stddev	.64728	3.957	.298	9.64	59.
%RSD	82.650	33.135	.41206	1.7452	.21890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3645.1	2995.3	35124.	6410.1
Stddev	9.0	8.5	118.	13.9
%RSD	.24691	.28311	.33500	.21751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.923%	100.73%	100.73%	102.72%
Range				

Sample Name: 240-49294-f-1-a Acquired: 4/17/2015 11:43:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.50727	14.650	2.6678	149.04	75.414	-.01594	32850.	.0391
Stddev	.46032	21.322	1.2263	.44	.136	.05347	54.	.1123
%RSD	90.743	145.54	45.965	.29360	.18043	335.39	.16302	286.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.65073	1.8513	4.4738	643.54	15473.	-3.2631	8486.1	75.954
Stddev	.14314	.0160	.4138	5.09	34.	1.2313	54.0	.098
%RSD	21.996	.86346	9.2487	.79111	.21821	37.734	.63618	.12905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34203	22499.	.73754	2.3895	2.313	-.76841	-.59041	.64223
Stddev	.15241	41.	.25672	2.0052	1.826	2.3366	.78653	.23491
%RSD	44.560	.18373	34.807	83.919	78.92	304.08	133.22	36.578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49294-f-1-a Acquired: 4/17/2015 11:43:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8767	1.3467	2.7876	1785.1	161.16
Stddev	.1465	1.7042	.1005	2.7	5.02
%RSD	7.8074	126.54	3.6064	.15356	3.1167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3697.7	3034.7	35908.	6495.6
Stddev	4.9	2.8	227.	42.3
%RSD	.13266	.09356	.63099	.65073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.37%	102.05%	102.98%	104.09%
Range				

Sample Name: SD 240-49294-f-1-a@5 Acquired: 4/17/2015 11:47:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13342	-3.7562	2.2320	30.305	15.004	.00200	6593.3	.0469
Stddev	.33083	24.212	.8346	.382	.106	.04681	10.1	.1069
%RSD	247.97	644.60	37.391	1.2621	.70767	2345.4	.15268	228.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08883	.63071	.46158	129.78	3107.0	-1.3249	1726.0	15.610
Stddev	.21681	.13234	1.2501	1.86	37.4	.4612	12.3	.036
%RSD	244.08	20.983	270.82	1.4323	1.2041	34.813	.70982	.23192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01518	4484.7	.27322	1.6406	2.166	1.3440	-.36022	.00864
Stddev	.39207	15.0	.35838	1.1632	1.183	3.2832	.30389	.09431
%RSD	2583.6	.33483	131.17	70.900	54.62	244.30	84.361	1091.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-49294-f-1-a@5 Acquired: 4/17/2015 11:47:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.24899	-2.8058	1.1662	351.37	32.001
Stddev	1.4852	.6571	.0466	7.45	1.401
%RSD	596.49	23.419	3.9938	2.1211	4.3771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3718.8	3035.4	35617.	6417.7
Stddev	5.9	4.8	23.	18.8
%RSD	.15814	.15891	.06526	.29359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.94%	102.08%	102.14%	102.84%
Range				

Sample Name: 240-49294-f-1-b ms Acquired: 4/17/2015 11:51:31 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.204	2091.3	2099.5	1218.9	2104.0	50.596	83614.	53.67
Stddev	.095	6.7	4.6	1.7	1.5	.283	92.	.17
%RSD	.17919	.32267	.21882	.13921	.07335	.55866	.10985	.3131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	500.90	216.77	264.57	1703.5	66803.	1012.4	58912.	571.02
Stddev	.62	.06	1.48	2.6	143.	3.6	261.	1.36
%RSD	.12282	.02982	.55968	.15382	.21462	.35551	.44343	.23809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1011.7	73468.	511.05	494.89	537.1	2191.7	2076.4	1056.2
Stddev	2.0	176.	.96	2.01	3.3	.8	6.0	.2
%RSD	.19291	.23991	.18826	.40554	.6187	.03609	.28896	.01924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49294-f-1-b ms Acquired: 4/17/2015 11:51:31 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2118.7	529.93	505.27	2849.1	1194.7
Stddev	2.0	4.72	1.05	6.4	8.9
%RSD	.09437	.89077	.20719	.22377	.74496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3581.8	2981.4	35387.	6438.5
Stddev	5.3	6.9	106.	20.9
%RSD	.14687	.22999	.29884	.32432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.188%	100.26%	101.48%	103.17%
Range				

Sample Name: 240-49294-f-1-c msd Acquired: 4/17/2015 11:55:13 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.551	1882.5	1904.4	1107.8	1895.8	45.480	75850.	48.66
Stddev	.679	10.2	8.5	4.1	2.9	.399	60.	.24
%RSD	1.3977	.53926	.44413	.36775	.15062	.87658	.07909	.5009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	451.70	188.46	238.61	1511.6	60427.	912.09	53500.	519.05
Stddev	1.09	1.08	.36	2.3	102.	3.95	102.	1.02
%RSD	.24111	.57326	.14923	.15433	.16951	.43310	.19123	.19614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	906.50	66530.	455.92	449.56	485.7	2010.6	1869.2	947.51
Stddev	1.83	201.	1.60	2.36	2.1	4.6	2.9	.99
%RSD	.20158	.30197	.35140	.52424	.4234	.23096	.15620	.10428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49294-f-1-c msd Acquired: 4/17/2015 11:55:13 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1909.0	476.80	458.39	2562.7	1075.3
Stddev	4.0	4.69	.37	7.8	6.1
%RSD	.21030	.98317	.08037	.30514	.56938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3587.8	2978.1	35170.	6454.5
Stddev	4.4	6.7	110.	24.8
%RSD	.12309	.22348	.31372	.38363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.354%	100.15%	100.86%	103.43%
Range				

Sample Name: 240-49169-a-1-b@10 Acquired: 4/17/2015 11:58:54 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.37662	5.5823	2.2589	176.76	50.314	.03485	36224.
Stddev	.42565	2.9244	.7212	.38	.256	.08187	22.
%RSD	113.02	52.386	31.927	.21551	.50964	234.92	.06051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2202	4.7694	2.5505	3.9098	208.60	560.95	53.836
Stddev	.1096	.2249	.4389	.6309	.82	28.44	.617
%RSD	49.78	4.7151	17.207	16.136	.39316	5.0708	1.1469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5407.0	6603.6	19.296	151860.	123.05	3.9422	5.902
Stddev	4.5	25.5	.137	503.	.08	2.7507	1.695
%RSD	.08386	.38641	.70808	.33106	.06837	69.776	28.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49169-a-1-b@10 Acquired: 4/17/2015 11:58:54 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6515	1.0470	.78048	4.3453	2.3161	1719.9	1299.8
Stddev	2.6546	.3035	.16455	2.3259	5.8445	4.7	4.7
%RSD	100.12	28.987	21.084	53.528	252.34	.27074	.35924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	79.484
Stddev	5.194
%RSD	6.5350
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3611.1	2984.5	35152.	6381.4
Stddev	4.9	4.9	41.	17.5
%RSD	.13467	.16284	.11642	.27401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.990%	100.36%	100.81%	102.26%
Range				

Sample Name: 240-49087-a-1-e@10 Acquired: 4/17/2015 12:03:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.84273	125.53	1.5862	25.896	1.3946	.06352	726.89
Stddev	.72372	15.78	1.9071	.156	.2334	.01811	6.77
%RSD	85.878	12.567	120.23	.60212	16.733	28.508	.93167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0793	332.15	1070.4	21695.	34.325	151.51	1.1202
Stddev	.0689	.78	2.8	147.	.157	40.26	2.2902
%RSD	86.79	.23560	.25947	.67753	.45691	26.571	204.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.897	3.5335	1.6287	154070.	4607.4	2.6207	.8347
Stddev	22.454	.3708	.2458	386.	9.3	1.4631	.6658
%RSD	161.57	10.492	15.092	.25071	.20089	55.829	79.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49087-a-1-e@10 Acquired: 4/17/2015 12:03:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65224	.98195	1.7139	1.6250	1.9236	325.03	813.73
Stddev	.26623	.29428	.2575	.8250	2.2743	1.40	8.44
%RSD	40.817	29.969	15.024	50.770	118.23	.43009	1.0367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	-.63906
Stddev	1.6751
%RSD	262.13
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3617.5	2985.4	35667.	6411.2
Stddev	20.4	14.1	121.	46.5
%RSD	.56376	.47301	.33901	.72548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.167%	100.40%	102.29%	102.74%
Range				

Sample Name: SD 240-49087-a-1e@50 Acquired: 4/17/2015 12:07:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.43812	37.490	-.98086	6.2995	.19007	-.00246	163.82	-.0132
Stddev	.15199	12.003	1.9473	.1413	.01543	.07108	4.12	.1432
%RSD	34.690	32.017	198.53	2.2423	8.1171	2890.2	2.5159	1087.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66.523	220.95	4397.3	9.7750	91.238	.91445	6.4513	.92788
Stddev	.046	.58	8.2	1.2599	7.926	.78971	6.9984	.08784
%RSD	.06958	.26072	.18710	12.889	8.6874	86.359	108.48	9.4665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20695	32107.	932.34	.01228	1.195	2.0295	-.37485	.44427
Stddev	.10293	198.	.48	1.7848	1.485	1.8971	.27754	.12545
%RSD	49.734	.61676	.05158	14536.	124.3	93.476	74.039	28.237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-49087-a-1e@50 Acquired: 4/17/2015 12:07:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8643	2.8146	65.476	161.37	.05535
Stddev	1.4624	5.4619	.166	5.87	2.2751
%RSD	78.438	194.06	.25309	3.6383	4110.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3675.1	3011.4	35746.	6411.2
Stddev	1.1	.6	104.	28.6
%RSD	.02870	.02065	.29179	.44658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.75%	101.27%	102.51%	102.74%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 12:11:10 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1047.8	25460.	516.00	5232.0	2043.5	2036.1	51172.	515.6
Stddev	.4	77.	2.28	4.1	4.1	1.1	53.	1.1
%RSD	.03874	.30268	.44211	.07868	.19873	.05440	.10293	.2041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1977.7	2074.7	2088.9	25225.	50674.	5071.8	50332.	1993.6
Stddev	4.4	4.0	1.8	23.	75.	8.1	141.	3.6
%RSD	.22238	.19237	.08682	.09103	.14724	.15878	.28067	.18013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2015.5	51012.	1974.4	494.24	514.6	527.43	5177.1	5120.6
Stddev	2.3	154.	4.3	1.53	2.5	4.46	4.8	3.6
%RSD	.11351	.30283	.21680	.30940	.4928	.84508	.09251	.07102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 12:11:10 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1050.7	2108.4	1988.7	5201.1	5141.0
Stddev	1.6	8.8	3.9	31.8	13.4
%RSD	.15199	.41659	.19714	.61218	.26015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3534.7	2919.6	34615.	6295.4
Stddev	5.5	3.4	27.	11.3
%RSD	.15452	.11512	.07778	.17871

Sample Name: CCB Acquired: 4/17/2015 12:14:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.43446	-16.105	2.5430	6.4792	.16588	.23327	12.016	.0332
Stddev	.30024	12.688	1.3602	1.0066	.12317	.06136	4.241	.0958
%RSD	69.105	78.785	53.489	15.536	74.254	26.305	35.297	288.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13423	.60881	1.0294	4.0515	76.804	2.2636	-10.243	.22712
Stddev	.34091	.15410	.1991	1.2628	12.702	.1494	10.601	.03797
%RSD	253.98	25.311	19.338	31.168	16.539	6.5991	103.50	16.717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.52998	101.81	-.04789	-.40574	-.4481	-1.4482	.38210	.94173
Stddev	.22083	4.00	.18429	.78535	2.595	2.6775	.51050	.06542
%RSD	41.668	3.9279	384.84	193.56	579.1	184.89	133.61	6.9464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 12:14:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.53564	.11649	.11370	-6.2307	-.30188
Stddev	.96576	1.4517	.04070	3.5743	3.7700
%RSD	180.30	1246.3	35.794	57.367	1248.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3679.2	2992.8	35122.	6316.4
Stddev	7.9	7.6	129.	9.1
%RSD	.21553	.25328	.36769	.14398

Sample Name: 240-49087-a-1-fms@10 Acquired: 4/17/2015 12:19:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104.88	359.19	531.03	134.09	5161.4	5.1878	5915.6
Stddev	.58	25.22	1.29	.50	13.4	.1003	18.1
%RSD	.55569	7.0199	.24295	.37368	.26015	1.9330	.30644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106.2	378.08	1586.6	21455.	137.80	5238.0	102.93
Stddev	.4	.82	2.4	101.	1.06	44.2	1.90
%RSD	.3535	.21583	.15263	.47010	.76970	.84391	1.8462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5213.0	52.690	103.79	158590.	4599.4	511.81	54.51
Stddev	47.8	.116	.18	507.	12.2	1.22	1.78
%RSD	.91678	.21933	.17595	.31941	.26528	.23758	3.270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49087-a-1-fms@10 Acquired: 4/17/2015 12:19:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	111.31	204.86	105.49	211.48	52.629	371.49	845.57
Stddev	1.74	.19	.79	.92	2.442	1.36	4.86
%RSD	1.5666	.09503	.75108	.43616	4.6391	.36728	.57498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	105.18
Stddev	2.22
%RSD	2.1096
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3599.9	2972.0	35514.	6360.4
Stddev	3.3	7.2	32.	6.1
%RSD	.09176	.24134	.09049	.09537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.684%	99.944%	101.85%	101.92%
Range				

Sample Name: 240-49087-a-1gmsd@10 Acquired: 4/17/2015 12:23:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.95	337.18	524.06	132.42	5119.7	5.1509	5867.4
Stddev	1.53	23.31	2.18	.35	10.0	.0587	4.3
%RSD	1.4863	6.9131	.41643	.26382	.19498	1.1402	.07289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105.5	379.79	1580.5	21602.	138.31	5234.8	102.29
Stddev	.1	.92	3.4	102.	2.11	18.6	1.43
%RSD	.0881	.24318	.21206	.47346	1.5223	.35551	1.3994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5174.0	52.513	103.18	158470.	4607.3	507.21	53.31
Stddev	29.7	.056	.25	392.	11.2	1.51	1.66
%RSD	.57376	.10724	.24111	.24748	.24254	.29790	3.106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49087-a-1gmsd@10 Acquired: 4/17/2015 12:23:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	109.39	203.82	104.64	213.56	54.222	371.37	844.23
Stddev	1.54	.80	.36	.64	3.471	1.21	2.51
%RSD	1.4058	.39080	.34662	.29994	6.4011	.32458	.29702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	101.83
Stddev	3.60
%RSD	3.5353
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3597.3	2971.1	35697.	6391.1
Stddev	8.7	6.6	131.	9.4
%RSD	.24318	.22374	.36567	.14750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.613%	99.914%	102.37%	102.41%
Range				

Sample Name: 240-49299-b-1-a Acquired: 4/17/2015 12:27:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11095	2.5152	3.2944	74.309	16.858	.05366	234450.
Stddev	.54129	5.9572	.9586	.330	.032	.00182	2842.
%RSD	487.88	236.85	29.097	.44370	.19085	3.3977	1.2123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4592	.17669	1.1784	7.4411	32.343	1839.2	12.259
Stddev	.1037	.56525	.3838	1.4307	.780	51.1	.648
%RSD	22.58	319.92	32.572	19.227	2.4102	2.7780	5.2851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	151710.	6.0144	4.6352	33198.	4.1965	2.0058	4.112
Stddev	658.	.0693	.4393	167.	.1704	.1585	1.413
%RSD	.43356	1.1514	9.4766	.50382	4.0596	7.9036	34.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49299-b-1-a Acquired: 4/17/2015 12:27:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8341	.54293	.27563	2.2020	.82730	10.095	6553.1
Stddev	1.8440	.59651	.06821	1.9202	3.8412	.098	9.0
%RSD	65.065	109.87	24.748	87.202	464.30	.96953	.13773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1891.8
Stddev	13.5
%RSD	.71408
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3559.1	2925.8	35090.	6362.4
Stddev	15.2	14.0	130.	4.2
%RSD	.42800	.47930	.37163	.06620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.566%	98.392%	100.63%	101.95%
Range				

Sample Name: PDS 240-49299-b-1-a Acquired: 4/17/2015 12:31:18 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106.96	5431.9	330.48	3470.5	70.188	26.492	243790.
Stddev	.52	4.4	.62	7.5	.037	.169	5004.
%RSD	.48360	.08124	.18844	.21536	.05203	.63611	2.0525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	385.5	156.79	214.91	504.58	4831.3	7212.1	555.73
Stddev	.1	.04	.30	.70	6.2	29.1	1.99
%RSD	.0231	.02253	.13783	.13893	.12861	.40342	.35847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	152740.	31.580	108.22	87200.	264.93	156.97	163.9
Stddev	519.	.059	.67	256.	.30	.53	2.3
%RSD	.33990	.18788	.62068	.29383	.11366	.33840	1.384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PDS 240-49299-b-1-a Acquired: 4/17/2015 12:31:18 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	468.25	318.33	522.38	501.64	54.130	523.63	9692.1
Stddev	2.41	.70	1.17	3.39	.610	.68	10.5
%RSD	.51558	.22091	.22404	.67553	1.1266	.13028	.10784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2412.8
Stddev	5.4
%RSD	.22454
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3516.0	2919.0	34835.	6348.1
Stddev	5.3	3.1	86.	25.1
%RSD	.15056	.10730	.24619	.39507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.384%	98.163%	99.901%	101.73%
Range				

Sample Name: 240-49299-b-1-b ms Acquired: 4/17/2015 12:35:11 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.451	2059.2	2110.4	1166.8	2048.3	49.584	283900.
Stddev	.630	18.7	.9	2.3	2.1	.228	3636.
%RSD	1.1786	.90615	.04453	.19787	.10467	.46039	1.2809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.14	491.91	203.76	267.71	1043.4	53954.	1042.3
Stddev	.18	.60	.38	.50	5.8	66.	3.5
%RSD	.3261	.12294	.18767	.18820	.55611	.12219	.33307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	202790.	489.63	1009.6	84816.	498.03	489.04	542.2
Stddev	713.	1.69	.9	78.	.47	.87	5.6
%RSD	.35161	.34545	.08467	.09168	.09462	.17699	1.026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49299-b-1-b ms Acquired: 4/17/2015 12:35:11 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2210.8	2053.5	1044.9	2085.3	525.06	498.22	7663.0
Stddev	2.3	1.9	.9	3.4	5.28	.72	6.7
%RSD	.10392	.09402	.08929	.16236	1.0052	.14414	.08680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2920.1
Stddev	12.0
%RSD	.41188
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3434.8	2867.9	34603.	6295.4
Stddev	3.3	4.1	116.	32.8
%RSD	.09651	.14185	.33472	.52144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.158%	96.444%	99.236%	100.88%
Range				

Sample Name: 240-49299-b-1-c msd Acquired: 4/17/2015 12:39:00 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.913	2060.6	2114.0	1163.9	2036.5	49.617	275500.
Stddev	.322	3.2	4.6	.8	1.6	.066	2025.
%RSD	.60837	.15345	.21991	.06462	.07891	.13201	.73485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.69	491.26	202.00	268.64	1037.2	53771.	1035.1
Stddev	.09	.47	.86	1.20	3.1	30.	3.3
%RSD	.1764	.09499	.42636	.44790	.30038	.05638	.31688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200230.	488.79	1008.4	84184.	497.70	487.44	542.5
Stddev	578.	2.05	1.6	220.	1.33	3.28	1.7
%RSD	.28890	.41903	.15714	.26160	.26655	.67378	.3098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49299-b-1-c msd Acquired: 4/17/2015 12:39:00 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2206.7	2047.4	1041.0	2081.5	520.78	497.43	7521.0
Stddev	3.5	4.6	1.6	7.5	5.22	.53	4.7
%RSD	.15656	.22274	.15254	.36170	1.0021	.10671	.06269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2882.7
Stddev	1.2
%RSD	.04167
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3441.5	2871.3	34557.	6329.6
Stddev	8.8	8.2	246.	12.0
%RSD	.25581	.28415	.71303	.18981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.342%	96.557%	99.104%	101.43%
Range				

Sample Name: 240-49348-c-1-a Acquired: 4/17/2015 12:42:50 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17451	528.76	16.082	436.37	27.019	-.01062	22449.
Stddev	.16607	7.25	1.544	.27	.183	.03983	26.
%RSD	95.163	1.3720	9.6010	.06249	.67895	375.05	.11510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0155	.24112	1.1492	.74268	111.88	51845.	9.2828
Stddev	.0440	.17250	.2360	.52508	1.61	50.	1.4908
%RSD	284.4	71.542	20.535	70.700	1.4364	.09712	16.059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9676.6	18.908	359.97	288260.	8.6249	2.3634	4.663
Stddev	10.0	.061	.21	1621.	.1018	.7978	1.168
%RSD	.10333	.32508	.05857	.56231	1.1802	33.754	25.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49348-c-1-a Acquired: 4/17/2015 12:42:50 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8697	1.2543	1.1243	3.8276	3.6676	4.5989	9347.8
Stddev	2.0551	.4422	.1132	.4738	3.5447	.1641	454.4
%RSD	71.615	35.251	10.071	12.378	96.650	3.5690	4.8614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	364.19
Stddev	3.16
%RSD	.86634
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3579.2	2984.6	34998.	6385.5
Stddev	16.6	7.8	95.	34.0
%RSD	.46510	.26116	.27096	.53176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.116%	100.37%	100.37%	102.32%
Range				

Sample Name: 240-49353-d-1-a Acquired: 4/17/2015 12:47:00 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02617	11.317	63.533	148.57	922.18	.05040	117080.
Stddev	.81187	8.231	.566	.59	.54	.11187	143.
%RSD	3101.8	72.731	.89082	.39432	.05857	221.96	.12204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3823	.00391	2.1901	.87287	13204.	1815.3	-3.1272
Stddev	.1940	.32671	.1278	.21701	33.	20.0	.8441
%RSD	50.74	8361.8	5.8341	24.862	.24629	1.1011	26.992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53260.	40.810	14.462	22931.	.84953	.73281	3.460
Stddev	43.	.179	.237	39.	.76259	1.8503	3.443
%RSD	.08096	.43815	1.6395	.16862	89.766	252.49	99.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49353-d-1-a Acquired: 4/17/2015 12:47:00 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03410	.09822	.58226	2.2988	.48263	4.3178	9392.8
Stddev	2.0915	.22427	.17606	.4767	2.1939	.0944	10.4
%RSD	6134.3	228.33	30.237	20.737	454.57	2.1869	.11091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2993.4
Stddev	8.9
%RSD	.29814
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3576.7	2945.1	35117.	6420.4
Stddev	7.3	6.9	69.	32.1
%RSD	.20505	.23287	.19611	.50014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.047%	99.041%	100.71%	102.88%
Range				

Sample Name: 240-49353-d-2-a Acquired: 4/17/2015 12:51:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04028	3.0009	59.066	387.80	363.69	-.07900	154050.
Stddev	.15996	6.3803	1.385	.59	.24	.00528	338.
%RSD	397.10	212.62	2.3455	.15137	.06682	6.6820	.21965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2895	.61513	.87114	1.2161	17966.	3590.7	59.130
Stddev	.0141	.11916	.50209	.8156	53.	52.0	1.308
%RSD	4.882	19.371	57.636	67.064	.29564	1.4482	2.2126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70977.	74.759	6.9745	10952.	1.4531	.15663	1.995
Stddev	120.	.081	.1380	15.	.3539	1.0842	2.940
%RSD	.16842	.10819	1.9792	.14041	24.355	692.17	147.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49353-d-2-a Acquired: 4/17/2015 12:51:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0148	.83321	-.10305	.64536	-.68688	2.5346	14576.
Stddev	1.9285	.31495	.10469	.91373	3.2100	.0507	31.
%RSD	190.04	37.800	101.60	141.59	467.33	2.0019	.21206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1558.3
Stddev	5.0
%RSD	.32225
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3556.9	2928.3	34978.	6439.2
Stddev	6.9	5.5	83.	22.2
%RSD	.19479	.18743	.23863	.34479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.507%	98.476%	100.31%	103.19%
Range				

Sample Name: 240-49353-d-3-a Acquired: 4/17/2015 12:55:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40569	152.19	22.252	85.545	626.72	-.08794	86484.	.2549
Stddev	.64124	14.49	.933	.542	1.22	.07399	53.	.2067
%RSD	158.06	9.5222	4.1922	.63414	.19427	84.139	.06162	81.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32272	.90655	1.6773	1941.0	1608.3	-1.6365	41446.	131.11
Stddev	.16738	.18453	.7753	4.0	25.7	1.7313	80.	.32
%RSD	51.866	20.355	46.225	.20610	1.5958	105.79	.19375	.24269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.763	12084.	.12067	1.4171	2.995	-1.2301	-.00791	3.9011
Stddev	.031	11.	.35660	.3324	1.526	1.0071	.33267	.3787
%RSD	.19424	.09501	295.52	23.458	50.94	81.871	4205.0	9.7074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49353-d-3-a Acquired: 4/17/2015 12:55:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8613	-1.1570	2.1474	8843.4	3434.9
Stddev	1.1092	2.3108	.1361	8.9	12.3
%RSD	59.590	199.72	6.3401	.10096	.35928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3587.6	2943.8	35313.	6399.1
Stddev	10.6	12.4	5.	17.6
%RSD	.29680	.42116	.01395	.27568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.348%	98.998%	101.27%	102.54%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 12:59:09 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1048.5	25619.	521.19	5305.2	2048.7	2067.7	51342.	519.3
Stddev	1.6	49.	2.90	8.5	2.3	3.5	51.	.5
%RSD	.15641	.19078	.55562	.15961	.11062	.17125	.09977	.0888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1986.3	2068.9	2082.1	25175.	51134.	5040.2	51048.	1974.9
Stddev	4.5	9.5	1.4	52.	14.	2.9	106.	3.4
%RSD	.22560	.45969	.06829	.20584	.02745	.05819	.20677	.17081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2016.5	51604.	1981.7	496.21	520.8	534.89	5221.8	5200.7
Stddev	3.6	21.	2.5	1.81	3.5	3.45	8.0	57.1
%RSD	.17843	.04073	.12375	.36471	.6732	.64555	.15387	1.0988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 12:59:09 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1054.3	2129.7	2011.3	5258.0	5202.6
Stddev	3.0	10.0	3.6	27.6	10.4
%RSD	.27991	.47082	.17738	.52522	.19990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3513.0	2906.3	34617.	6293.7
Stddev	2.4	1.7	129.	6.4
%RSD	.06854	.05777	.37123	.10231

Sample Name: CCB Acquired: 4/17/2015 13:02:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27920	-8.2230	-.48887	7.5756	.00951	.25611	25.226	-.0341
Stddev	.25220	18.202	.30426	.7131	.13809	.08630	3.814	.0505
%RSD	90.330	221.36	62.237	9.4125	1451.5	33.696	15.119	148.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09831	.14626	.59246	5.8128	69.544	1.2086	.83441	.25449
Stddev	.29430	.49694	.60905	1.0513	23.729	1.0298	18.248	.06524
%RSD	299.37	339.77	102.80	18.087	34.121	85.208	2186.9	25.637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46873	104.73	.09026	-.47271	2.216	.38232	.16839	.99167
Stddev	.08231	6.61	.37349	3.2691	3.438	1.8026	.36392	.17233
%RSD	17.561	6.3136	413.77	691.57	155.2	471.49	216.12	17.378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 13:02:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.01504	.37560	.19219	1.0309	2.1322
Stddev	.31359	3.4172	.20817	1.8931	2.9320
%RSD	2084.5	909.78	108.32	183.64	137.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3662.0	2986.2	35309.	6338.9
Stddev	6.2	5.2	48.	4.8
%RSD	.16915	.17453	.13668	.07639

Sample Name: 240-49353-d-4-a Acquired: 4/17/2015 13:07:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33016	152.72	21.016	87.265	651.57	.00010	89426.	-.0659
Stddev	.16054	5.47	2.795	.401	.64	.06397	119.	.0562
%RSD	48.624	3.5813	13.298	.45903	.09815	61241.	.13300	85.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15762	.76933	.21513	1950.0	1704.5	-.29628	42938.	135.81
Stddev	.12976	.04572	1.1298	7.3	53.7	1.8505	25.	.36
%RSD	82.325	5.9424	525.16	.37461	3.1476	624.58	.05832	.26571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.237	12520.	.23847	.87190	3.107	.54341	.36351	2.9202
Stddev	.121	28.	.35531	.43374	1.332	2.8620	.38011	.3272
%RSD	.74478	.22009	148.99	49.746	42.86	526.68	104.57	11.203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49353-d-4-a Acquired: 4/17/2015 13:07:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.7869	-1.0636	2.8923	9434.5	3574.3
Stddev	.7425	3.1705	.1387	19.0	9.1
%RSD	26.641	298.09	4.7955	.20147	.25547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3629.1	2969.6	35335.	6450.8
Stddev	1.6	1.1	91.	31.3
%RSD	.04385	.03621	.25775	.48489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.484%	99.864%	101.34%	103.37%
Range				

Sample Name: 240-49353-d-5-a Acquired: 4/17/2015 13:11:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23029	-3.7566	3.8735	52.093	386.36	.12600	89628.	.1584
Stddev	.05495	17.211	1.9350	.192	.52	.00828	127.	.0649
%RSD	23.860	458.15	49.956	.36826	.13416	6.5687	.14219	41.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.30585	3.6000	1.6509	68.393	1616.3	-2.6108	41953.	42.478
Stddev	.12373	.2057	.9287	2.572	17.8	.3319	52.	.131
%RSD	40.453	5.7154	56.255	3.7601	1.0995	12.711	.12300	.30798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.576	10856.	5.9874	1.4058	.8781	-.46788	.06153	.39405
Stddev	.261	32.	.6493	1.5698	.8127	1.8885	.12435	.13371
%RSD	1.5753	.29629	10.844	111.67	92.55	403.64	202.09	33.933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49353-d-5-a Acquired: 4/17/2015 13:11:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.77082	-2.7018	2.0227	6371.4	1804.6
Stddev	.64060	4.2275	.2566	118.8	17.5
%RSD	83.107	156.47	12.686	1.8638	.96747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3618.1	2965.5	35210.	6418.8
Stddev	6.8	2.3	185.	23.0
%RSD	.18870	.07611	.52678	.35858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.182%	99.724%	100.98%	102.86%
Range				

Sample Name: 240-49353-d-6-a Acquired: 4/17/2015 13:15:13 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34320	39.616	1.9523	125.77	211.80	-.00412	161490.
Stddev	.28271	10.266	.4649	.49	.51	.02052	212.
%RSD	82.373	25.914	23.811	.38862	.23931	497.75	.13151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2621	.64071	76.148	2.4685	940.30	1654.2	-6.9283
Stddev	.1228	.15929	.341	.1013	.94	38.1	.9460
%RSD	46.85	24.862	.44816	4.1052	.10006	2.3062	13.654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57580.	8.6573	1.4595	16904.	18.492	2.3104	.8993
Stddev	99.	.0271	.2147	2.	.467	.5314	.5566
%RSD	.17163	.31257	14.711	.01283	2.5257	23.001	61.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49353-d-6-a Acquired: 4/17/2015 13:15:13 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.92328	.64165	1.1444	2.9295	-.71009	4.7841	7301.0
Stddev	1.5781	.05625	.3414	.7903	.71258	.0950	21.8
%RSD	170.93	8.7671	29.835	26.978	100.35	1.9850	.29809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	329.18
Stddev	1.85
%RSD	.56122
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3578.4	2926.9	34992.	6356.6
Stddev	6.2	8.2	67.	36.4
%RSD	.17228	.28143	.19040	.57269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.096%	98.426%	100.35%	101.86%
Range				

Sample Name: 240-49367-b-1-a Acquired: 4/17/2015 13:19:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04110	180.83	5.1440	180.59	25.774	.10737	35615.
Stddev	.49757	7.19	1.2558	.63	.207	.04049	87.
%RSD	1210.7	3.9752	24.413	.35000	.80295	37.713	.24548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1014	.35743	2.4464	6.9131	269.44	113370.	5.1957
Stddev	.1427	.09235	.2414	.5121	1.72	68.	1.5757
%RSD	140.7	25.838	9.8664	7.4080	.63748	.06000	30.328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5067.5	131.43	3.5145	144310.	553.10	1.9411	7.230
Stddev	45.8	.54	.2625	216.	1.69	.4448	1.304
%RSD	.90368	.41012	7.4703	.14982	.30505	22.916	18.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49367-b-1-a Acquired: 4/17/2015 13:19:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.7328	14.919	1.5006	1.1243	3.3037	213.99	8907.6
Stddev	1.2092	.520	.1942	.9071	3.4595	.62	28.1
%RSD	44.248	3.4851	12.941	80.686	104.72	.29038	.31564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	255.60
Stddev	3.09
%RSD	1.2100
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3608.3	2971.5	35465.	6509.0
Stddev	4.7	5.3	47.	16.0
%RSD	.13101	.17996	.13170	.24655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.914%	99.927%	101.71%	104.30%
Range				

Sample Name: 240-49378-q-1-a Acquired: 4/17/2015 13:23:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58024	11.523	2.6225	45.814	73.797	.01735	53028.	.0201
Stddev	.38071	19.769	1.1769	.464	.616	.01558	11.	.1566
%RSD	65.613	171.56	44.878	1.0124	.83519	89.795	.02092	780.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11886	.70693	7.1973	19.098	1225.4	5.8173	10851.	5.1215
Stddev	.15204	.34054	1.1962	.740	39.9	1.2453	4.	.0172
%RSD	127.92	48.172	16.620	3.8761	3.2569	21.407	.03945	.33594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15490	6520.1	-.13863	1.0452	1.936	.02718	.28353	.33310
Stddev	.15823	9.4	.42409	.6276	1.626	4.4061	.53325	.17849
%RSD	102.15	.14428	305.92	60.051	83.98	16213.	188.07	53.586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49378-q-1-a Acquired: 4/17/2015 13:23:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.8904	-.93508	54.123	4899.8	613.83
Stddev	.6914	2.8260	.206	20.5	4.76
%RSD	23.921	302.22	.38119	.41836	.77583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3699.3	3005.5	35784.	6479.6
Stddev	11.6	7.0	51.	25.4
%RSD	.31491	.23171	.14273	.39197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.41%	101.07%	102.62%	103.83%
Range				

Sample Name: 240-49378-p-1-a Acquired: 4/17/2015 13:27:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15848	15.892	2.4319	45.271	73.949	.06248	52699.	-.0746
Stddev	.46536	13.765	.5500	.440	.486	.07689	52.	.0599
%RSD	293.63	86.613	22.616	.97274	.65737	123.06	.09783	80.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00412	.85104	18.725	58.912	1146.4	3.8971	10738.	10.923
Stddev	.32310	.44989	.745	2.032	37.2	1.2598	16.	.032
%RSD	7847.7	52.864	3.9777	3.4486	3.2452	32.326	.15177	.29189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25830	6436.8	-.35433	.82709	1.106	.34364	-.61366	.68295
Stddev	.16101	17.6	.40179	2.2157	1.188	2.8316	.56055	.10756
%RSD	62.335	.27306	113.39	267.89	107.4	823.99	91.345	15.750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49378-p-1-a Acquired: 4/17/2015 13:27:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.70211	3.2959	61.860	4889.3	618.51
Stddev	1.0117	1.9157	.181	25.6	4.90
%RSD	144.10	58.123	.29304	.52391	.79220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3696.3	3007.1	35547.	6491.3
Stddev	3.0	1.7	196.	21.1
%RSD	.08228	.05702	.55043	.32459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.33%	101.13%	101.94%	104.02%
Range				

Sample Name: x240-49384-a-1-a Acquired: 4/17/2015 13:31:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8348	2.1722	3.6760	1952.8	12.853	-.02445
Stddev	.3343	22.873	1.4775	4.5	.196	.05211
%RSD	11.793	1053.0	40.194	.23075	1.5264	213.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35923.	4.274	26.439	16.062	105.34	322.75
Stddev	27.	.177	.442	.201	.47	1.62
%RSD	.07594	4.151	1.6708	1.2505	.44632	.50157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66919.	36.174	7013.0	7.0731	269.26	F 689550.
Stddev	69.	.756	69.4	.0244	.48	2168.
%RSD	.10262	2.0901	.99020	.34489	.17793	.31440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: x240-49384-a-1-a Acquired: 4/17/2015 13:31:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	269.37	3.9494	1.444	208.49	7.6676	.16439
Stddev	.55	2.1188	.276	1.31	.9204	.24325
%RSD	.20268	53.650	19.09	.62657	12.003	147.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.8247	4.8223	198.91	4907.0	167.52
Stddev	1.1013	.8679	.64	21.6	3.00
%RSD	28.794	17.997	.32347	.43971	1.7893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3467.3	2917.6	34511.	6374.5
Stddev	4.2	3.5	73.	30.9
%RSD	.12024	.11909	.21010	.48433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.049%	98.117%	98.973%	102.15%
Range				

Sample Name: SD 240-49384-a-1-a@5 Acquired: 4/17/2015 13:35:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.59668	-6.1101	.31137	390.96	2.4132	-.05739	7359.0
Stddev	.22864	2.5985	1.0850	.81	.0678	.05186	5.2
%RSD	38.318	42.528	348.44	.20633	2.8087	90.369	.07117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6444	5.1821	3.6992	21.674	66.206	13157.	6.7975
Stddev	.1214	.2460	.3053	.449	1.955	38.	1.4842
%RSD	18.85	4.7471	8.2538	2.0734	2.9528	.28670	21.834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1450.0	1.4965	54.290	151130.	53.517	1.9928	3.360
Stddev	27.1	.0162	.161	325.	.293	1.6140	.656
%RSD	1.8715	1.0809	.29619	.21526	.54792	80.990	19.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SD 240-49384-a-1-a@5 Acquired: 4/17/2015 13:35:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.559	1.8097	-.15231	1.7068	-.76396	41.157	979.01
Stddev	2.338	1.0486	.01723	1.9980	.42284	.483	6.38
%RSD	5.6247	57.941	11.314	117.06	55.348	1.1731	.65192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	33.999
Stddev	5.100
%RSD	15.000
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3630.1	2973.5	35371.	6405.7
Stddev	6.6	5.2	84.	34.0
%RSD	.18261	.17515	.23884	.53113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.513%	99.997%	101.44%	102.65%
Range				

Sample Name: PDS 240-49384-a-1-a Acquired: 4/17/2015 13:39:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	110.35	5310.2	332.26	5321.2	65.811	26.620
Stddev	.92	30.1	1.23	.6	.277	.021
%RSD	.83008	.56660	.36885	.01089	.42082	.07873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46406.	387.4	185.10	231.18	601.95	5056.7
Stddev	70.	.5	.13	.84	1.82	22.8
%RSD	.15153	.1196	.06801	.36468	.30183	.45065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72348.	569.11	10140.	32.474	371.48	F 722450.
Stddev	140.	2.82	61.	.046	.84	9350.
%RSD	.19303	.49558	.60223	.14043	.22707	1.2942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: PDS 240-49384-a-1-a Acquired: 4/17/2015 13:39:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	535.06	156.78	161.8	675.42	330.34	522.25
Stddev	1.99	.62	3.9	1.63	1.83	1.16
%RSD	.37238	.39361	2.422	.24150	.55514	.22210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	498.71	59.596	733.31	8163.7	710.80
Stddev	.98	1.263	.38	45.3	2.29
%RSD	.19615	2.1195	.05247	.55529	.32161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3444.2	2901.7	34292.	6376.5
Stddev	4.5	4.2	49.	42.2
%RSD	.12991	.14354	.14223	.66209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.415%	97.580%	98.346%	102.18%
Range				

Sample Name: 240-49384-a-1-b ms Acquired: 4/17/2015 13:43:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.636	2052.9	2143.0	3166.3	2052.4	50.543
Stddev	.523	24.0	2.1	1.9	2.4	.258
%RSD	.89161	1.1681	.10005	.06008	.11621	.51032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	89574.	58.58	534.57	224.44	378.79	1371.4
Stddev	195.	.05	1.10	.90	1.63	2.2
%RSD	.21781	.0810	.20483	.40097	.42949	.16014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124350.	1073.2	58470.	495.77	1290.8	F 748820.
Stddev	344.	1.8	368.	.87	1.8	4849.
%RSD	.27666	.17138	.62978	.17607	.13670	.64756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49384-a-1-b ms Acquired: 4/17/2015 13:43:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	793.53	490.52	540.1	2453.1	2117.7	1061.0
Stddev	1.70	1.59	1.6	5.0	1.6	.8
%RSD	.21416	.32397	.2874	.20432	.07749	.07388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2112.6	538.76	719.42	6286.0	1212.4
Stddev	2.2	2.40	1.40	14.4	7.6
%RSD	.10544	.44487	.19397	.22850	.62533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3386.8	2871.3	33848.	6288.7
Stddev	5.7	4.9	92.	18.0
%RSD	.16852	.16911	.27073	.28700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.842%	96.560%	97.071%	100.77%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 13:47:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1045.1	25489.	515.39	5275.4	2046.9	2060.1	51075.	517.2
Stddev	1.7	81.	.67	2.2	4.1	7.0	101.	.4
%RSD	.16577	.31744	.12934	.04093	.19884	.33920	.19725	.0843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1978.1	2056.7	2081.1	25060.	51012.	5044.1	50689.	1967.0
Stddev	5.2	6.4	1.2	44.	200.	3.8	280.	7.9
%RSD	.26143	.31238	.05566	.17603	.39270	.07474	.55254	.39998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2015.3	51382.	1972.1	492.47	519.5	532.11	5193.6	5158.2
Stddev	1.9	179.	2.9	2.78	4.5	4.72	10.1	41.1
%RSD	.09633	.34926	.14745	.56369	.8659	.88619	.19432	.79702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 13:47:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1052.5	2118.0	1991.3	5204.7	5201.7
Stddev	1.2	2.9	5.2	22.3	25.1
%RSD	.11871	.13802	.26102	.42925	.48339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3526.6	2913.9	34655.	6341.2
Stddev	3.9	4.3	34.	20.2
%RSD	.11001	.14790	.09859	.31904

Sample Name: CCB Acquired: 4/17/2015 13:50:54 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19904	-9.5991	.15493	10.943	.18203	.19234	21.145	.0133
Stddev	.36054	9.8504	1.0452	.995	.05373	.06662	2.925	.1970
%RSD	181.14	102.62	674.64	9.0885	29.515	34.635	13.835	1479.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20030	.44687	.41745	5.8260	162.69	1.6244	2.2502	.28278
Stddev	.15694	.38872	.38318	.3964	37.72	1.2195	29.689	.04403
%RSD	78.355	86.987	91.791	6.8034	23.187	75.073	1319.4	15.572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.99711	282.31	.23697	.08085	1.041	1.9929	.18124	1.4804
Stddev	.09391	24.23	.45040	.88205	1.334	.4525	.49544	.4672
%RSD	9.4185	8.5831	190.07	1090.9	128.2	22.707	273.36	31.557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 13:50:54 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.9461	-1.2427	.35836	-2.2170	3.8366
Stddev	.9838	1.1955	.12704	3.4373	3.5130
%RSD	50.550	96.204	35.450	155.04	91.566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3678.9	2997.2	35656.	6382.1
Stddev	.5	3.0	177.	25.8
%RSD	.01281	.10127	.49566	.40491

Sample Name: 240-49384-a-1-c msd Acquired: 4/17/2015 13:55:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56.708	2047.1	2133.0	3119.2	2037.8	50.815
Stddev	.171	14.1	3.8	6.8	1.5	.042
%RSD	.30163	.69102	.17956	.21949	.07261	.08320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87473.	58.24	531.87	221.05	373.35	1351.3
Stddev	133.	.31	.76	.44	1.86	4.0
%RSD	.15196	.5384	.14283	.19888	.49730	.29688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121800.	1063.2	57345.	492.15	1279.2	F 740890.
Stddev	237.	3.6	163.	2.22	.7	3562.
%RSD	.19443	.34215	.28427	.45028	.05481	.48076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49384-a-1-c msd Acquired: 4/17/2015 13:55:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	785.18	488.71	540.2	2438.8	2103.0	1052.6
Stddev	.25	1.72	3.5	1.6	3.0	2.4
%RSD	.03219	.35156	.6480	.06442	.14070	.22559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2097.6	540.32	710.35	6156.2	1213.0
Stddev	4.2	3.73	1.41	27.8	7.4
%RSD	.20086	.68999	.19878	.45145	.60960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3374.0	2857.2	34058.	6362.3
Stddev	3.1	5.7	126.	19.3
%RSD	.09109	.20090	.37000	.30344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.491%	96.085%	97.673%	101.95%
Range				

Sample Name: 240-49379-p-1-d Acquired: 4/17/2015 13:58:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38378	-17.179	3.3158	64.423	297.23	.02120	67593.	.0808
Stddev	.05949	18.557	1.4057	1.287	.44	.03601	43.	.1234
%RSD	15.500	108.02	42.395	1.9973	.14776	169.85	.06379	152.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29919	.68015	15.414	10.868	1640.0	3.4369	20418.	6.2128
Stddev	.22532	.14496	.459	.691	24.6	.7875	63.	.0367
%RSD	75.309	21.314	2.9801	6.3622	1.4987	22.912	.30829	.59064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.90710	19905.	-.22070	1.9498	2.610	.03539	.38379	.50590
Stddev	.06388	46.	.23506	1.0287	2.934	3.2237	.29131	.15021
%RSD	7.0421	.22886	106.51	52.758	112.4	9109.6	75.903	29.691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49379-p-1-d Acquired: 4/17/2015 13:58:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.9417	-.04766	10.988	6395.6	1450.9
Stddev	1.2552	1.0465	.063	11.7	5.4
%RSD	42.670	2195.7	.57455	.18356	.36892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3635.4	2969.8	35710.	6445.8
Stddev	6.6	6.9	63.	15.5
%RSD	.18159	.23152	.17571	.23980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.658%	99.871%	102.41%	103.29%
Range				

Sample Name: PDS 240-49379-p-1-d Acquired: 4/17/2015 14:02:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106.57	5373.4	330.87	3455.5	343.89	26.896	76742.	384.0
Stddev	.68	21.2	1.73	2.4	.82	.046	121.	.2
%RSD	.63957	.39389	.52316	.06904	.23807	.17185	.15791	.0609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	157.32	219.08	507.13	4817.9	6841.9	534.53	22905.	31.917
Stddev	.67	.97	2.07	15.1	44.9	.62	52.	.039
%RSD	.42444	.44056	.40729	.31362	.65613	.11619	.22914	.12366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103.94	72916.	262.48	159.82	163.8	469.53	319.25	526.91
Stddev	.27	93.	1.37	1.42	1.9	2.49	1.48	.33
%RSD	.26278	.12803	.52040	.89041	1.156	.53099	.46284	.06252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: PDS 240-49379-p-1-d Acquired: 4/17/2015 14:02:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	499.50	55.110	535.02	9452.1	1960.2
Stddev	3.60	3.186	.61	19.4	8.2
%RSD	.72053	5.7809	.11445	.20569	.41894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3608.5	2962.2	35223.	6415.6
Stddev	5.8	5.0	72.	13.5
%RSD	.16056	.16995	.20476	.21018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.921%	99.617%	101.02%	102.81%
Range				

Sample Name: 240-49379-p-1-b ms Acquired: 4/17/2015 14:06:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.482	1957.7	2028.3	1115.4	2242.4	49.361	113630.
Stddev	.897	11.3	6.2	3.9	6.0	.203	254.
%RSD	1.7414	.57744	.30344	.34970	.26611	.41068	.22368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.08	477.31	198.77	266.66	990.23	50970.	977.72
Stddev	.30	1.06	1.49	.96	5.46	30.	3.47
%RSD	.5738	.22256	.74938	.35968	.55140	.05950	.35525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68147.	474.13	972.33	68673.	481.70	476.17	520.3
Stddev	117.	1.55	3.66	46.	.50	2.49	1.3
%RSD	.17141	.32754	.37598	.06658	.10393	.52372	.2420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49379-p-1-b ms Acquired: 4/17/2015 14:06:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2147.7	1989.5	1016.0	2024.9	517.68	491.70	7262.7
Stddev	4.9	4.5	2.0	4.9	2.88	.28	23.4
%RSD	.22697	.22832	.20067	.24271	.55679	.05649	.32260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2394.9
Stddev	.3
%RSD	.01408
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.9	2916.1	35144.	6431.3
Stddev	2.8	4.7	61.	6.0
%RSD	.07979	.16065	.17414	.09337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.575%	98.065%	100.79%	103.06%
Range				

Sample Name: 240-49379-p-1-c msd Acquired: 4/17/2015 14:10:20 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.188	2064.8	2115.3	1156.4	2332.4	51.281	118110.
Stddev	.213	18.7	3.9	1.4	1.2	.532	92.
%RSD	.39977	.90723	.18212	.12036	.05336	1.0373	.07780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.85	494.82	206.12	275.19	1029.3	53007.	1019.5
Stddev	.22	.65	1.48	.52	9.2	98.	.3
%RSD	.4010	.13188	.71835	.18998	.89380	.18448	.02533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70972.	492.47	1010.1	71439.	499.95	496.29	539.9
Stddev	205.	.71	2.7	139.	.63	.95	2.3
%RSD	.28882	.14377	.26341	.19418	.12651	.19080	.4268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49379-p-1-c msd Acquired: 4/17/2015 14:10:20 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2221.2	2068.8	1056.3	2108.5	534.00	510.28	7544.1
Stddev	5.5	.7	1.3	3.9	5.94	1.11	41.5
%RSD	.24642	.03536	.12155	.18723	1.1123	.21671	.55043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2488.8
Stddev	5.5
%RSD	.22177
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.5	2914.5	35138.	6376.9
Stddev	1.8	2.3	30.	20.9
%RSD	.05086	.07846	.08645	.32727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.562%	98.010%	100.77%	102.19%
Range				

Sample Name: 240-49379-q-1-b Acquired: 4/17/2015 14:14:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26538	-16.872	2.4543	64.069	298.09	.00871	67197.	.1321
Stddev	.05638	15.069	.9210	.604	.33	.06826	185.	.1386
%RSD	21.246	89.316	37.524	.94337	.11164	783.30	.27576	104.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06506	.73698	21.269	6.3497	1524.2	5.1611	20352.	3.0475
Stddev	.18636	.19909	.409	.9697	26.7	1.4007	42.	.0527
%RSD	286.44	27.015	1.9224	15.271	1.7501	27.140	.20701	1.7276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.86497	20311.	-.46890	3.3595	5.551	.34933	.97430	.35516
Stddev	.32403	99.	.32685	1.0817	2.462	1.3777	.71160	.14068
%RSD	37.461	.48941	69.706	32.197	44.36	394.38	73.037	39.609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49379-q-1-b Acquired: 4/17/2015 14:14:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.6960	1.6242	7.8712	6433.4	1472.5
Stddev	1.4663	3.7598	.1535	12.7	6.3
%RSD	86.457	231.48	1.9505	.19736	.42827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3626.3	2961.3	35472.	6467.3
Stddev	3.2	1.3	118.	5.6
%RSD	.08720	.04361	.33385	.08618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.408%	99.586%	101.73%	103.64%
Range				

Sample Name: 240-49384-a-1-a Acquired: 4/17/2015 14:18:04 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0177	15.960	3.5900	2122.2	13.710	.05423
Stddev	.6487	19.596	.4600	5.2	.240	.12007
%RSD	21.496	122.78	12.813	.24425	1.7477	221.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38839.	4.633	28.531	17.215	114.00	347.38
Stddev	130.	.115	.485	.446	.70	.12
%RSD	.33440	2.489	1.6983	2.5936	.61248	.03411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72611.	39.864	7630.7	7.6447	294.52	F 732850.
Stddev	312.	2.849	32.5	.0490	1.38	7092.
%RSD	.42925	7.1471	.42644	.64106	.46890	.96773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49384-a-1-a Acquired: 4/17/2015 14:18:04 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	293.19	4.2799	3.450	224.20	9.2931	.31960
Stddev	1.30	.4658	2.123	1.71	.9615	.01771
%RSD	.44284	10.883	61.54	.76388	10.346	5.5401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.0336	2.4066	216.68	5299.1	183.09
Stddev	1.6605	1.3733	1.46	27.1	1.63
%RSD	54.738	57.062	.67372	.51138	.88851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3436.5	2894.6	34296.	6347.7
Stddev	2.3	3.6	20.	20.9
%RSD	.06830	.12590	.05756	.32908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.204%	97.341%	98.356%	101.72%
Range				

Sample Name: 190-7064-b-1-b Acquired: 4/17/2015 14:22:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15972	-2.3103	6.8968	9716.1	13.246	.01501
Stddev	.11770	20.023	.8047	7.4	.047	.03400
%RSD	73.693	866.71	11.669	.07611	.35752	226.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43206.	.1536	-.01209	267.14	76.768	86.834
Stddev	68.	.1261	.37939	1.25	1.148	1.660
%RSD	.15641	82.06	3139.3	.46834	1.4957	1.9116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4674.5	61.058	132360.	1.7812	7.1722	F 1289900.
Stddev	19.1	.551	133.	.0396	.2398	9958.
%RSD	.40925	.90197	.10050	2.2233	3.3434	.77198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 190-7064-b-1-b Acquired: 4/17/2015 14:22:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	77.533	1.7287	7.179	-1.1203	5.3491	-.19488
Stddev	.469	1.0772	2.715	2.3247	.5007	.22351
%RSD	.60533	62.314	37.82	207.51	9.3602	114.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	4.9415	1.3215	4.9326	4503.1	816.72
Stddev	1.5801	1.5500	.1332	1.6	11.04
%RSD	31.977	117.29	2.7000	.03640	1.3517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3286.9	2808.8	33241.	6237.7
Stddev	7.3	4.1	78.	49.5
%RSD	.22224	.14486	.23501	.79361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.105%	94.455%	95.331%	99.955%
Range				

Sample Name: 190-7064-d-2-b Acquired: 4/17/2015 14:26:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02943	-12.058	5.9866	6107.9	11.514	.01578
Stddev	.23833	20.183	1.5385	15.0	.375	.08702
%RSD	809.83	167.38	25.699	.24548	3.2585	551.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26583.	-.1384	.21885	53.113	32.016	25.021
Stddev	14.	.1943	.31222	.440	.297	.492
%RSD	.05237	140.3	142.67	.82796	.92899	1.9683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2715.9	27.936	43429.	.47334	4.2620	F 1239500.
Stddev	22.4	1.127	213.	.04159	.0632	3830.
%RSD	.82627	4.0360	.49050	8.7873	1.4833	.30902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 190-7064-d-2-b Acquired: 4/17/2015 14:26:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.845	.90130	7.595	1.4758	1.3628	.06923
Stddev	.147	.65299	1.903	.6268	1.3796	.05503
%RSD	1.1450	72.450	25.05	42.473	101.23	79.491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	4.4022	1.5583	2.8789	3302.4	460.09
Stddev	1.6414	3.6881	.1823	9.0	7.88
%RSD	37.287	236.68	6.3328	.27279	1.7118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3312.8	2838.2	33364.	6228.3
Stddev	1.0	6.6	86.	14.3
%RSD	.03163	.23169	.25716	.23000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.815%	95.447%	95.682%	99.805%
Range				

Sample Name: 190-7065-d-1-b Acquired: 4/17/2015 14:30:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54934	1234.8	11.934	1740.1	84.623	.08732
Stddev	.10919	11.8	2.169	2.9	.096	.04382
%RSD	19.876	.95491	18.177	.16676	.11364	50.180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50524.	.5661	1.1767	13.865	56.999	1564.9
Stddev	46.	.1427	.3568	.120	.931	6.9
%RSD	.09112	25.21	30.324	.86210	1.6327	.43966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10792.	6.8119	17110.	29.735	20.184	F 780450.
Stddev	20.	2.0026	25.	.144	.546	4446.
%RSD	.18289	29.399	.14460	.48407	2.7030	.56966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 190-7065-d-1-b Acquired: 4/17/2015 14:30:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.1039	5.1165	2.171	11.484	4.3486	17.610
Stddev	.3265	1.1034	1.131	2.862	.1411	.477
%RSD	4.0294	21.566	52.08	24.922	3.2447	2.7092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-4.3474	1.8203	227.69	46460.	177.60
Stddev	.4116	4.2684	.54	60.	1.31
%RSD	9.4670	234.49	.23730	.12967	.73932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3295.5	2806.7	33195.	6035.5
Stddev	5.5	3.4	46.	6.5
%RSD	.16732	.12267	.13853	.10812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.341%	94.387%	95.198%	96.717%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 14:34:35 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1044.8	25457.	514.19	5249.8	2043.3	2047.6	50957.	515.2
Stddev	.9	159.	2.43	3.8	3.7	4.6	164.	.6
%RSD	.08974	.62324	.47343	.07308	.18007	.22560	.32123	.1210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1973.2	2038.8	2087.8	25168.	50712.	5056.3	50249.	1970.0
Stddev	2.7	4.5	.9	117.	114.	16.2	125.	8.5
%RSD	.13574	.21948	.04073	.46375	.22415	.32018	.24936	.43013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2011.6	50939.	1963.4	490.75	517.7	527.67	5121.7	5104.8
Stddev	1.3	67.	2.9	1.38	.4	1.27	9.2	20.2
%RSD	.06617	.13152	.14616	.28191	.0699	.24133	.17928	.39585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 14:34:35 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1049.3	2101.4	1971.1	5263.4	5144.9
Stddev	23.5	6.2	1.5	16.7	16.0
%RSD	2.2373	.29512	.07485	.31777	.31059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3484.4	2882.3	34353.	6272.3
Stddev	2.9	.9	124.	36.0
%RSD	.08369	.03170	.36120	.57446

Sample Name: CCB Acquired: 4/17/2015 14:38:23 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31199	4.3386	1.3305	16.015	.22216	.49427	19.162	-.0085
Stddev	.45723	20.417	2.8588	.863	.23493	.12429	4.055	.0824
%RSD	146.55	470.59	214.87	5.3854	105.75	25.146	21.162	969.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16663	.59815	.97165	7.2596	110.73	2.5674	7.4148	.29061
Stddev	.17088	.30543	.61932	2.8130	27.90	2.3994	10.153	.00207
%RSD	102.55	51.063	63.740	38.748	25.192	93.457	136.93	.71108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.69352	303.73	.18562	1.2600	1.008	-.44034	-.01647	1.2768
Stddev	.09840	8.88	.26902	.7910	2.517	.26298	.59745	.0863
%RSD	14.188	2.9245	144.93	62.777	249.7	59.723	3628.0	6.7586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 14:38:23 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.85966	-.10066	.08216	-1.8465	2.2409
Stddev	2.2525	1.5667	.20586	4.3420	.1926
%RSD	262.02	1556.4	250.56	235.15	8.5952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3631.9	2986.3	35308.	6393.4
Stddev	4.9	4.0	129.	25.3
%RSD	.13358	.13329	.36442	.39516

Sample Name: 190-7062-c-2-b Acquired: 4/17/2015 14:42:31 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24497	-8.9461	11.040	40.302	147.26	-.05522	102690.
Stddev	.21143	1.9684	2.001	.134	.07	.04353	100.
%RSD	86.308	22.003	18.122	.33202	.05013	78.840	.09749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1650	-.04085	5.2906	4.2341	2419.9	1395.5	-.79611
Stddev	.0600	.21799	.2677	1.9487	6.2	52.3	.69919
%RSD	36.34	533.64	5.0602	46.023	.25486	3.7496	87.826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29315.	60.775	6.5178	39824.	-.13788	2.1015	1.963
Stddev	59.	.550	.2005	105.	.49267	1.3307	1.779
%RSD	.20077	.90475	3.0758	.26248	357.31	63.322	90.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 190-7062-c-2-b Acquired: 4/17/2015 14:42:31 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.50884	.72578	.49260	1.3516	-1.0972	5.2909	8157.3
Stddev	2.3111	.40688	.48309	1.9198	1.7475	.1805	5.0
%RSD	454.19	56.061	98.070	142.03	159.27	3.4106	.06158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	305.33
Stddev	5.11
%RSD	1.6749
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3578.3	2931.0	35084.	6356.3
Stddev	6.1	5.5	140.	6.4
%RSD	.17109	.18601	.39880	.10112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.091%	98.565%	100.62%	101.86%
Range				

Sample Name: 240-49379-q-1-b Acquired: 4/17/2015 14:46:34 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40899	2.0648	3.6755	65.492	299.21	-.04366	67787.	.0075
Stddev	.63023	10.225	.9072	.456	.44	.05485	137.	.1679
%RSD	154.10	495.22	24.684	.69604	.14657	125.63	.20177	2248.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03309	.68284	21.274	5.6626	1474.0	5.3206	20465.	3.0082
Stddev	.19470	.39866	1.016	1.0454	51.6	.4426	96.	.0327
%RSD	588.35	58.383	4.7769	18.461	3.4987	8.3177	.46678	1.0860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.53975	20488.	-.22121	2.2179	1.970	.35817	.74484	.15437
Stddev	.24051	59.	.42357	.9938	1.627	2.9526	.48954	.12083
%RSD	44.559	.28869	191.48	44.808	82.60	824.34	65.724	78.271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49379-q-1-b Acquired: 4/17/2015 14:46:34 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.7123	-1.5811	7.9343	6462.4	1475.8
Stddev	.7815	3.4018	.1604	12.9	11.3
%RSD	45.639	215.16	2.0214	.20005	.76580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3618.5	2958.9	35220.	6380.1
Stddev	6.4	4.3	128.	16.8
%RSD	.17705	.14475	.36440	.26405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.196%	99.503%	101.01%	102.24%
Range				

Sample Name: 240-49401-c-2-b Acquired: 4/17/2015 14:50:40 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12569	162.63	2.1187	75.057	19.122	-.01931	36652.
Stddev	.31362	4.76	1.7420	.609	.060	.09315	88.
%RSD	249.52	2.9277	82.224	.81148	.31275	482.41	.24040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0072	.18202	3.6771	52.958	1439.5	10126.	5.3276
Stddev	.0057	.41097	.6749	.811	2.7	35.	.5051
%RSD	79.89	225.79	18.355	1.5312	.18429	.34160	9.4812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12294.	22.209	19.047	222410.	3.5802	2.6402	3.457
Stddev	11.	.060	.057	42.	.2653	1.0024	1.811
%RSD	.08910	.27148	.29799	.01867	7.4109	37.968	52.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49401-c-2-b Acquired: 4/17/2015 14:50:40 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23641	16.305	.93306	3.8136	-.24061	263.67	2306.9
Stddev	1.0017	.249	.23736	1.5006	2.5470	.97	11.1
%RSD	423.72	1.5276	25.439	39.350	1058.6	.36828	.47958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	235.80
Stddev	2.81
%RSD	1.1905
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3554.5	3023.0	35723.	6514.1
Stddev	9.1	5.9	79.	7.3
%RSD	.25462	.19677	.22206	.11229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.441%	101.66%	102.45%	104.39%
Range				

Sample Name: 240-49383-a-1-c Acquired: 4/17/2015 14:54:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.62438	1009.1	19.148	7671.7	1.2078	-.04508
Stddev	.36397	15.0	.900	8.0	.0945	.04715
%RSD	58.293	1.4897	4.7024	.10461	7.8271	104.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1577.2	.0584	54.803	12.385	5.6245	82.729
Stddev	5.2	.4269	.315	.084	.5164	2.122
%RSD	.33227	730.9	.57496	.68045	9.1808	2.5655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3664.8	10.114	2238.7	4.0050	12.294	F 724870.
Stddev	22.5	1.886	4.6	.0307	.086	9716.
%RSD	.61330	18.647	.20473	.76621	.70200	1.3403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49383-a-1-c Acquired: 4/17/2015 14:54:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.243	1.5978	17.17	1.3782	.84122	.44890
Stddev	.195	1.1118	1.65	.3940	.55601	.27940
%RSD	.50986	69.582	9.624	28.586	66.096	62.241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.7794	16.570	56.050	3647.0	2.8752
Stddev	1.3357	2.225	.133	49.1	6.6257
%RSD	48.057	13.428	.23680	1.3468	230.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3371.3	2863.7	34076.	6193.0
Stddev	11.4	11.4	63.	27.2
%RSD	.33856	.39935	.18561	.43862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.419%	96.304%	97.724%	99.240%
Range				

Sample Name: 240-49386-d-1-c Acquired: 4/17/2015 14:58:58 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11404	21.697	2.4541	18.923	3.4547	.00685	3192.9	-.1088
Stddev	.03138	16.536	1.2069	1.808	.1636	.09806	17.1	.1775
%RSD	27.521	76.213	49.177	9.5560	4.7360	1432.4	.53518	163.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15177	.62931	2.7217	79.038	332.41	.74014	586.17	3.7623
Stddev	.10029	.55036	.2847	2.623	28.74	1.1743	34.76	.0167
%RSD	66.080	87.456	10.460	3.3181	8.6467	158.66	5.9300	.44501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03040	785.02	.14863	.56618	2.878	.91936	.15639	.28318
Stddev	.44773	49.96	.30754	.90115	1.277	1.7379	.65252	.00562
%RSD	1472.9	6.3641	206.92	159.16	44.37	189.03	417.25	1.9832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49386-d-1-c Acquired: 4/17/2015 14:58:58 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.81078	1.8118	46.381	61.611	6.9326
Stddev	.97428	1.6281	.180	2.426	7.1101
%RSD	120.17	89.861	.38731	3.9375	102.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3649.4	2987.4	35472.	6462.8
Stddev	7.0	4.1	69.	34.4
%RSD	.19239	.13579	.19491	.53229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.04%	100.46%	101.73%	103.56%
Range				

Sample Name: 240-49391-d-1-c Acquired: 4/17/2015 15:03:02 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02770	81.851	15.307	37.980	104.95	.05077	92510.	.3636
Stddev	.65989	12.116	1.492	.414	.20	.02016	245.	.1286
%RSD	2382.5	14.803	9.7499	1.0894	.19359	39.713	.26430	35.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.76603	1.5676	.62630	1574.9	2155.6	16.621	55703.	159.72
Stddev	.41672	.1298	.76024	12.4	25.8	1.218	192.	.53
%RSD	54.400	8.2776	121.38	.78854	1.1991	7.3298	.34541	.33230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.112	11852.	1.2310	.24202	2.476	.44119	.17633	1.4550
Stddev	.048	27.	.2440	.27306	1.787	1.7911	.66053	.1061
%RSD	.36235	.22940	19.824	112.82	72.17	405.98	374.60	7.2945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49391-d-1-c Acquired: 4/17/2015 15:03:02 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.8787	-1.2259	2.9204	9286.7	185.26
Stddev	1.4475	2.2651	.0721	15.9	4.73
%RSD	77.051	184.77	2.4689	.17163	2.5510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3546.6	2910.9	35115.	6372.9
Stddev	4.3	2.7	62.	36.2
%RSD	.12150	.09319	.17604	.56777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.223%	97.892%	100.70%	102.12%
Range				

Sample Name: 240-49391-d-2-c Acquired: 4/17/2015 15:07:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23416	-11.346	12.922	317.94	250.00	-.04775	106350.
Stddev	.28571	7.565	2.010	1.19	1.18	.03041	198.
%RSD	122.02	66.674	15.556	.37331	.47105	63.692	.18639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1822	.42222	.80694	1.0220	5622.5	1259.0	-1.8045
Stddev	.2253	.29492	.15309	.7324	4.9	41.0	1.3257
%RSD	123.6	69.849	18.972	71.665	.08670	3.2536	73.467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59344.	41.252	12.810	27921.	5.9152	1.3528	3.642
Stddev	125.	.169	.395	138.	.3496	1.0991	2.508
%RSD	.21117	.40928	3.0821	.49289	5.9097	81.249	68.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49391-d-2-c Acquired: 4/17/2015 15:07:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1214	.68960	1.2681	2.3011	-2.2795	3.7623	9702.1
Stddev	3.3974	.40621	.1277	1.0130	.4232	.1625	43.2
%RSD	302.95	58.905	10.070	44.022	18.566	4.3191	.44549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	186.48
Stddev	6.69
%RSD	3.5901
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3549.9	2921.1	34909.	6281.9
Stddev	4.9	6.1	175.	30.7
%RSD	.13823	.20765	.50082	.48886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.313%	98.233%	100.11%	100.66%
Range				

Sample Name: 240-49391-d-3-c Acquired: 4/17/2015 15:11:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22824	1034.6	18.260	60.180	184.50	-.01527	139810.
Stddev	.75188	3.5	2.230	.358	.17	.03015	129.
%RSD	329.43	.33795	12.215	.59536	.08952	197.50	.09220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3943	2.0139	6.1126	5.6326	13841.	1697.3	3.6934
Stddev	.1908	.2309	.4232	.5235	9.	19.3	1.0242
%RSD	48.38	11.464	6.9240	9.2941	.06802	1.1378	27.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51389.	29.129	2.5830	6566.3	3.1052	2.9132	.5255
Stddev	201.	.050	.2041	31.0	.2748	.7580	1.822
%RSD	.39092	.17208	7.9009	.47151	8.8508	26.021	346.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49391-d-3-c Acquired: 4/17/2015 15:11:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.2259	.25690	21.906	1.7918	2.0920	27.762	10291.
Stddev	.4700	.22917	.256	.7348	2.3364	.355	51.
%RSD	14.570	89.205	1.1665	41.008	111.68	1.2774	.49910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	274.46
Stddev	4.80
%RSD	1.7505
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3517.6	2891.6	34919.	6313.1
Stddev	15.3	14.4	86.	29.9
%RSD	.43466	.49743	.24742	.47314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.429%	97.241%	100.14%	101.16%
Range				

Sample Name: 240-49391-d-4-c Acquired: 4/17/2015 15:15:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18339	7.1728	12.153	85.225	230.62	-.06329	137120.
Stddev	.14938	10.790	4.436	.476	.03	.01920	179.
%RSD	81.455	150.43	36.502	.55848	.01400	30.328	.13031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1295	.08727	1.7153	.19339	3500.1	3568.6	.81668
Stddev	.0286	.17530	.2400	.46070	10.4	20.6	.97630
%RSD	22.08	200.87	13.990	238.23	.29853	.57856	119.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54946.	56.867	2.5349	17070.	1.2564	1.7599	1.911
Stddev	231.	.531	.2186	78.	.4276	.9583	2.334
%RSD	.41999	.93459	8.6231	.45589	34.031	54.451	122.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49391-d-4-c Acquired: 4/17/2015 15:15:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5104	.21183	.61171	2.8019	-1.2384	1.5964	8003.8
Stddev	2.6102	.31393	.18367	.3514	6.1816	.0422	19.3
%RSD	172.82	148.19	30.025	12.543	499.15	2.6445	.24098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	147.52
Stddev	3.96
%RSD	2.6816
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3532.0	2903.0	34777.	6312.1
Stddev	4.9	2.2	75.	20.6
%RSD	.13793	.07671	.21623	.32660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.823%	97.625%	99.735%	101.15%
Range				

Sample Name: 240-49391-d-5-c Acquired: 4/17/2015 15:19:12 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.56443	-21.895	4.0348	80.443	400.38	-.05961	91550.	.0045
Stddev	.16146	2.126	1.5120	.116	.55	.04268	77.	.1118
%RSD	28.605	9.7109	37.473	.14437	.13707	71.590	.08399	2478.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11760	2.3132	.26932	16.157	6579.5	10.005	36761.	3.8789
Stddev	.41115	.3011	.28612	2.051	29.1	1.246	135.	.0457
%RSD	349.62	13.017	106.24	12.693	.44224	12.452	.36784	1.1773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6983	36869.	.77254	.85330	3.039	-1.2193	.27608	.31092
Stddev	.2052	47.	.17755	.68881	1.464	2.1425	.31267	.09425
%RSD	7.6055	.12715	22.982	80.723	48.17	175.72	113.25	30.315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49391-d-5-c Acquired: 4/17/2015 15:19:12 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.2876	.07223	1.4403	10795.	207.08
Stddev	2.0585	2.3662	.0621	31.	7.69
%RSD	62.614	3275.9	4.3097	.28447	3.7141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3552.6	2919.9	34927.	6340.7
Stddev	9.2	6.8	64.	1.3
%RSD	.25836	.23145	.18305	.02044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.389%	98.193%	100.17%	101.61%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 15:23:17 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1033.1	25295.	520.63	5251.2	2019.5	2028.7	50646.	513.8
Stddev	1.5	26.	4.61	12.9	4.0	2.7	25.	1.1
%RSD	.14153	.10429	.88571	.24473	.19570	.13096	.04922	.2096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1977.7	2022.0	2049.8	24985.	50509.	4992.7	50201.	1952.6
Stddev	3.4	9.2	7.3	52.	36.	6.3	52.	6.2
%RSD	.17207	.45339	.35515	.20865	.07159	.12702	.10333	.31979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2010.7	50795.	1975.3	492.45	514.3	524.12	5153.1	5056.3
Stddev	2.1	15.	3.1	.21	2.6	3.80	15.6	27.3
%RSD	.10264	.03018	.15582	.04190	.5105	.72417	.30307	.53926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 15:23:17 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1039.0	2075.7	2004.8	5175.6	5115.5
Stddev	3.3	6.0	5.7	32.6	14.0
%RSD	.31789	.28675	.28638	.63060	.27441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3440.3	2851.3	34197.	6192.0
Stddev	6.7	8.0	77.	24.2
%RSD	.19575	.28145	.22565	.39096

Sample Name: CCB Acquired: 4/17/2015 15:27:06 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30737	-22.068	1.9513	10.219	.23388	.43129	19.410	.0550
Stddev	.43275	15.806	1.2730	.803	.05689	.12098	.096	.2433
%RSD	140.79	71.623	65.237	7.8593	24.323	28.050	.49401	442.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08963	.36070	.40951	7.2230	102.71	2.3162	-18.583	.25882
Stddev	.58927	.20419	.59160	1.2508	18.98	.6204	12.150	.03821
%RSD	657.44	56.610	144.47	17.317	18.482	26.785	65.385	14.763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.72787	149.36	-.43179	.17023	2.137	-.41299	.77071	1.4352
Stddev	.35313	7.34	.09055	.62298	4.324	1.4171	.25382	.0652
%RSD	48.516	4.9170	20.971	365.97	202.3	343.14	32.933	4.5451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 15:27:06 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.08630	.12094	-.06892	2.4336	.01067
Stddev	.75649	1.9810	.16181	4.2710	.99499
%RSD	876.58	1638.0	234.78	175.50	9326.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3633.9	2965.9	34991.	6230.7
Stddev	3.5	3.4	120.	17.7
%RSD	.09507	.11396	.34348	.28423

Sample Name: 180-43075-g-1-a Acquired: 4/17/2015 15:31:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10665	269.18	8.0935	F 30071.	5.6192	.21540	112530.
Stddev	.16387	10.01	3.2809	38.	.1686	.05783	114.
%RSD	153.66	3.7198	40.538	.12680	3.0000	26.847	.10156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				20000.			
Low Limit				-500000.			

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2851	1.2471	1.3324	10.982	1462.0	11234.	56.582
Stddev	.1808	.3728	.1458	.508	6.1	45.	1.167
%RSD	63.40	29.897	10.941	4.6239	.41709	.39887	2.0629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19438.	43.355	9.1742	345180.	6.2611	1.3852	5.444
Stddev	175.	.167	.2611	1655.	.3883	.4107	2.110
%RSD	.89800	.38509	2.8457	.47934	6.2020	29.646	38.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 180-43075-g-1-a Acquired: 4/17/2015 15:31:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64398	1.1837	.57017	2.6268	-.25463	11.369	15024.
Stddev	.26225	.2034	.27282	1.9866	1.2270	.077	16.
%RSD	40.724	17.185	47.848	75.626	481.87	.67885	.10784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1479.0
Stddev	14.0
%RSD	.94342
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3444.9	2869.9	34333.	6227.6
Stddev	16.6	10.6	28.	17.1
%RSD	.48178	.36875	.08152	.27402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.435%	96.510%	98.463%	99.794%
Range				

Sample Name: SD 180-43075-g-1-a@5 Acquired: 4/17/2015 15:35:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06639	55.514	2.0848	6012.6	.90306	.01549	22893.	-.1701
Stddev	.24994	6.084	1.6650	3.2	.29155	.02727	27.	.1100
%RSD	376.47	10.959	79.865	.05325	32.284	176.06	.11862	64.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41610	.53676	1.7705	299.31	2220.0	12.490	3986.9	8.9756
Stddev	.36170	.65514	1.2072	.64	37.1	.898	18.5	.0472
%RSD	86.928	122.05	68.184	.21427	1.6715	7.1925	.46469	.52618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8861	72043.	.94672	.11718	1.394	.58645	-.06517	.24866
Stddev	.2232	165.	.18383	1.7514	.626	1.8111	1.0048	.31168
%RSD	11.834	.22846	19.417	1494.7	44.94	308.82	1541.8	125.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 180-43075-g-1-a@5 Acquired: 4/17/2015 15:35:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.76468	.74892	2.2284	3027.4	307.53
Stddev	1.6505	1.3096	.1024	3.8	4.31
%RSD	215.84	174.87	4.5952	.12641	1.4008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3567.8	2920.0	34768.	6247.3
Stddev	4.7	3.4	83.	19.4
%RSD	.13247	.11549	.23978	.31120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.805%	98.197%	99.709%	100.11%
Range				

Sample Name: PDS 180-43075-g-1-a Acquired: 4/17/2015 15:39:28 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106.86	5689.1	338.99	F 32936.	59.295	27.083	122050.
Stddev	.25	18.1	3.35	38.	.276	.212	178.
%RSD	.23476	.31864	.98861	.11688	.46549	.78396	.14552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				20000.			
Low Limit				-500000.			

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	384.4	162.39	215.10	507.71	6270.0	16645.	594.88
Stddev	.3	.76	.79	.94	6.9	40.	1.52
%RSD	.0800	.47000	.36955	.18525	.11014	.24274	.25633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22264.	68.636	113.79	391830.	273.60	159.28	168.7
Stddev	47.	.168	.72	2041.	2.49	.39	1.8
%RSD	.20922	.24454	.63253	.52094	.91129	.24406	1.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PDS 180-43075-g-1-a Acquired: 4/17/2015 15:39:28 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	469.13	324.62	528.79	502.63	58.120	545.26	18045.
Stddev	1.87	.70	.39	2.45	2.026	.87	16.
%RSD	.39767	.21607	.07308	.48777	3.4857	.15866	.09096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2007.1
Stddev	23.8
%RSD	1.1879
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3439.0	2872.7	34157.	6259.1
Stddev	2.8	4.5	49.	18.5
%RSD	.08172	.15682	.14440	.29487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.274%	96.605%	97.957%	100.30%
Range				

Sample Name: 180-43075-g-1-b du Acquired: 4/17/2015 15:43:20 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.51102	265.99	7.5834	F 30533.	6.8694	.21301	114240.
Stddev	.43166	3.00	.9865	65.	.2242	.08252	200.
%RSD	84.470	1.1291	13.009	.21356	3.2636	38.742	.17537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				20000.			
Low Limit				-500000.			

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0575	1.4306	1.3834	9.5514	1499.7	11417.	56.407
Stddev	.1152	.5322	.1068	.2723	6.1	12.	.636
%RSD	200.6	37.201	7.7224	2.8505	.40621	.10492	1.1271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19754.	44.619	9.2222	345490.	6.1661	2.6881	3.281
Stddev	48.	.221	.1462	4103.	.2816	.4049	2.430
%RSD	.24059	.49493	1.5858	1.1876	4.5665	15.063	74.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 180-43075-g-1-b du Acquired: 4/17/2015 15:43:20 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14574	.85657	.58603	2.6786	-.54265	11.785	15200.
Stddev	.99097	.19323	.28858	1.3079	3.2792	.291	28.
%RSD	679.98	22.559	49.243	48.827	604.30	2.4699	.18371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1503.3
Stddev	5.0
%RSD	.33345
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3436.1	2863.4	34227.	6267.3
Stddev	5.2	2.8	146.	13.1
%RSD	.15223	.09929	.42643	.20937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.195%	96.293%	98.159%	100.43%
Range				

Sample Name: 180-43075-g-1-c ms Acquired: 4/17/2015 15:47:29 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.186	2209.8	2038.1	F 30963.	1932.8	48.396	160040.
Stddev	.372	18.0	.7	31.	2.1	.098	481.
%RSD	.72752	.81649	.03545	.09876	.10977	.20235	.30051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				20000.			
Low Limit				-500000.			

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.61	479.25	193.79	258.32	2441.9	61246.	1026.4
Stddev	.12	1.12	.90	.93	7.0	143.	5.4
%RSD	.2398	.23348	.46296	.35919	.28707	.23354	.52182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67400.	505.29	964.97	382090.	484.25	467.84	514.8
Stddev	358.	.42	2.18	3298.	.59	3.85	2.7
%RSD	.53177	.08406	.22574	.86313	.12179	.82370	.5306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 180-43075-g-1-c ms Acquired: 4/17/2015 15:47:29 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2105.0	1975.8	998.84	1992.3	502.77	491.95	15896.
Stddev	1.3	4.1	1.00	4.3	.99	.58	83.
%RSD	.06356	.20865	.09974	.21663	.19739	.11779	.52357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2442.0
Stddev	14.3
%RSD	.58584
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3390.9	2845.6	34113.	6258.7
Stddev	9.2	10.1	90.	28.9
%RSD	.27084	.35559	.26454	.46167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.956%	95.693%	97.832%	100.29%
Range				

Sample Name: 190-7039-c-1-a Acquired: 4/17/2015 15:51:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36512	-5.7875	4.6478	718.23	4.7156	-.00551
Stddev	.29504	4.2334	1.1495	5.13	.0778	.01383
%RSD	80.805	73.147	24.732	.71475	1.6506	251.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50413.	-.2389	.48335	1.4272	5.1779	92.875
Stddev	70.	.1456	.35353	.7741	1.0205	.222
%RSD	.13941	60.97	73.140	54.237	19.709	.23858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27027.	114.43	19487.	10.626	.66514	F 2225300.
Stddev	262.	1.90	132.	.036	.20045	37554.
%RSD	.96904	1.6618	.67765	.33545	30.137	1.6876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 190-7039-c-1-a Acquired: 4/17/2015 15:51:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.5878	.98783	1.916	-.55657	1.5688	.45469
Stddev	.7232	1.3227	2.533	.94744	.5344	.17823
%RSD	9.5316	133.90	132.2	170.23	34.063	39.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	5.2832	-3.0970	2.4861	384.16	1006.7
Stddev	1.6930	1.1028	.1014	1.91	8.4
%RSD	32.045	35.608	4.0769	.49838	.83754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2938.6	2588.1	30400.	5918.1
Stddev	5.2	4.0	131.	32.9
%RSD	.17549	.15406	.43208	.55598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.556%	87.036%	87.183%	94.835%
Range				

Sample Name: 190-7039-c-1-a@10 Acquired: 4/17/2015 15:55:31 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03711	7.5493	2.4406	111.83	.14311	-.03252
Stddev	.10457	5.8250	1.5466	2.16	.18000	.04207
%RSD	281.81	77.160	63.368	1.9323	125.78	129.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5187.0	-.2964	.19422	-.11789	1.3791	9.9125
Stddev	8.0	.0812	.09787	.13259	.6669	.5705
%RSD	.15398	27.38	50.393	112.47	48.358	5.7550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2573.6	11.370	1987.9	1.1072	.13496	W 490030.
Stddev	13.1	.883	18.6	.0185	.09500	5521.
%RSD	.50903	7.7629	.93445	1.6747	70.390	1.1266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit						450000.
Low Limit						-500000.

Sample Name: 190-7039-c-1-a@10 Acquired: 4/17/2015 15:55:31 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28725	.04465	2.113	.81222	.04368	.13091
Stddev	.25489	1.3074	.602	3.9115	.50490	.47644
%RSD	88.734	2928.2	28.49	481.58	1155.9	363.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.9600	-1.2690	.50077	39.344	103.18
Stddev	1.0574	.8686	.14030	2.906	8.72
%RSD	35.724	68.446	28.017	7.3865	8.4492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3424.6	2859.6	33949.	6116.4
Stddev	6.4	5.2	49.	19.5
%RSD	.18783	.18331	.14347	.31838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.879%	96.164%	97.360%	98.011%
Range				

Sample Name: 190-7040-a-1-a Acquired: 4/17/2015 15:59:47 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23071	127.17	5.2764	565.74	21.647	-.02621	91653.
Stddev	.26225	10.06	3.2364	1.80	.022	.03722	155.
%RSD	113.67	7.9126	61.338	.31816	.10369	142.04	.16909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2390	1.5595	18.162	18.074	21093.	187780.	-3.7578
Stddev	.1225	.0991	.088	.883	100.	505.	.9833
%RSD	51.28	6.3537	.48608	4.8873	.47259	.26906	26.167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2504.2	817.99	32.982	311450.	245.92	3.5982	4.297
Stddev	18.7	1.99	.521	1770.	1.42	1.3557	2.906
%RSD	.74509	.24361	1.5800	.56840	.57776	37.679	67.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 190-7040-a-1-a Acquired: 4/17/2015 15:59:47 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.77364	14.154	5.3848	2.9416	2.7809	458.65	3932.5
Stddev	1.5374	.781	.1123	.8238	3.0892	1.90	23.4
%RSD	198.73	5.5182	2.0856	28.004	111.08	.41526	.59453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	62.131
Stddev	1.079
%RSD	1.7360
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3468.6	2888.7	34603.	6419.5
Stddev	7.0	6.1	125.	28.3
%RSD	.20091	.21150	.36157	.44037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.086%	97.142%	99.237%	102.87%
Range				

Sample Name: 190-7041-a-1-a Acquired: 4/17/2015 16:03:54 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34850	119.94	3.7707	482.36	39.207	-.04691	100370.
Stddev	.42183	17.21	2.7354	.98	.124	.01765	135.
%RSD	121.04	14.349	72.545	.20255	.31570	37.638	.13404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2329	1.6122	16.654	17.770	19306.	160060.	-4.1667
Stddev	.1838	.3931	.499	.676	17.	174.	1.0821
%RSD	78.93	24.380	2.9959	3.8066	.08606	.10897	25.969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6684.5	802.45	28.923	326990.	224.64	3.0399	2.930
Stddev	18.2	1.46	.237	1326.	.69	1.1003	.233
%RSD	.27239	.18253	.82055	.40564	.30647	36.197	7.946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 190-7041-a-1-a Acquired: 4/17/2015 16:03:54 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6087	13.601	5.4917	3.6264	.03667	427.57	4035.6
Stddev	2.0298	.561	.2286	.7135	2.3755	.26	8.3
%RSD	126.18	4.1282	4.1634	19.675	6477.3	.06191	.20466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	149.12
Stddev	2.99
%RSD	2.0067
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.7	2874.0	34700.	6401.2
Stddev	1.3	.5	47.	11.5
%RSD	.03648	.01592	.13437	.18001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.703%	96.648%	99.514%	102.58%
Range				

Sample Name: 240-49349-f-1-a Acquired: 4/17/2015 16:08:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01823	61.085	2.0167	235.89	61.038	.04568	12575.	-.0187
Stddev	.39220	28.699	1.4731	.64	.244	.06155	14.	.1183
%RSD	2151.3	46.982	73.041	.27043	.39903	134.73	.11038	631.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5874	.26222	1.5537	57.466	18107.	-.51385	4656.8	48.938
Stddev	.3649	.24587	.8283	2.238	52.	1.7025	33.9	.047
%RSD	22.987	93.764	53.311	3.8941	.28502	331.33	.72789	.09625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09041	33048.	.92730	.99939	.9307	.22955	.19108	.10827
Stddev	.14644	84.	.25135	1.5034	1.368	3.2492	.59322	.11755
%RSD	161.97	.25358	27.106	150.44	147.0	1415.5	310.46	108.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49349-f-1-a Acquired: 4/17/2015 16:08:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.0508	-.20717	4.6494	1083.8	70.752
Stddev	.9178	2.9199	.0764	5.3	2.448
%RSD	87.345	1409.4	1.6441	.49211	3.4602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3637.1	2974.2	35432.	6410.1
Stddev	13.7	9.9	87.	19.7
%RSD	.37797	.33403	.24613	.30701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.705%	100.02%	101.62%	102.72%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 16:12:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1035.9	25176.	517.85	5269.8	2024.1	2027.7	50627.	513.6
Stddev	1.4	24.	3.08	8.1	3.2	3.2	37.	.2
%RSD	.13331	.09445	.59484	.15387	.15781	.15809	.07316	.0469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1970.9	2026.9	2055.1	24958.	50509.	4998.3	50039.	1953.5
Stddev	1.0	2.7	4.2	68.	55.	6.0	54.	3.1
%RSD	.04973	.13201	.20274	.27186	.10942	.11905	.10821	.15947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2007.1	50852.	1968.8	492.75	515.2	526.54	5147.4	5125.8
Stddev	3.8	308.	1.9	.78	3.8	1.86	3.8	32.5
%RSD	.19126	.60610	.09818	.15832	.7306	.35283	.07308	.63397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 16:12:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1040.1	2079.4	1993.6	5176.6	5094.7
Stddev	3.0	11.3	2.5	43.4	13.0
%RSD	.29052	.54566	.12340	.83930	.25439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3446.1	2851.5	34184.	6210.3
Stddev	2.7	2.7	21.	33.5
%RSD	.07736	.09473	.06281	.53905

Sample Name: CCB Acquired: 4/17/2015 16:15:55 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15579	-5.6140	.48241	29.734	.03547	.29499	12.328	-.0378
Stddev	.18400	9.9845	.77261	.635	.26759	.14024	1.124	.0862
%RSD	118.11	177.85	160.16	2.1363	754.32	47.542	9.1195	227.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03541	.39386	1.5404	7.1370	164.17	1.3627	9.0873	.20690
Stddev	.24574	.18408	.7204	.7578	12.23	.3832	24.851	.05211
%RSD	693.92	46.739	46.764	10.618	7.4487	28.122	273.47	25.186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47516	282.92	.09385	.22224	2.665	-.28242	-.17510	1.4779
Stddev	.26071	4.79	.59764	1.2822	2.186	2.8386	.15327	.0458
%RSD	54.867	1.6924	636.82	576.95	82.02	1005.1	87.535	3.0963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 16:15:55 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.65652	-.37142	.08759	-3.3248	-2.1763
Stddev	1.0548	1.5836	.03365	1.5722	1.1512
%RSD	160.66	426.37	38.417	47.288	52.898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3563.6	2913.3	34897.	6271.9
Stddev	8.3	6.4	150.	21.9
%RSD	.23323	.21846	.43011	.34858

Sample Name: 240-49349-f-2-a Acquired: 4/17/2015 16:20:02 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29879	421.36	-.07376	44.527	28.811	.07814	2968.9	-.0260
Stddev	.16553	30.16	1.0331	.638	.136	.06062	16.8	.1585
%RSD	55.400	7.1581	1400.7	1.4325	.47245	77.569	.56605	610.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6969	1.0515	2.4922	207.64	782.22	.38492	1582.9	47.178
Stddev	.3347	.0966	.6779	2.28	43.90	1.1208	16.5	.113
%RSD	9.0530	9.1844	27.202	1.0982	5.6127	291.19	1.0435	.23883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13771	5822.6	1.2548	.72925	3.292	-1.0078	-.35272	4.2389
Stddev	.25070	12.9	.2805	.99914	1.867	1.3743	.26468	.2900
%RSD	182.05	.22143	22.355	137.01	56.72	136.36	75.041	6.8418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49349-f-2-a Acquired: 4/17/2015 16:20:02 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.40476	1.2590	4.2088	2904.6	30.100
Stddev	.92042	2.7630	.1570	10.8	4.949
%RSD	227.40	219.46	3.7291	.37158	16.442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3643.4	2985.7	35756.	6426.1
Stddev	8.8	6.5	69.	11.1
%RSD	.24098	.21758	.19268	.17207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.877%	100.41%	102.54%	102.98%
Range				

Sample Name: 240-49349-f-3-a Acquired: 4/17/2015 16:24:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22095	4213.0	3.3866	62.736	31.666	.06414	8191.5	.0068
Stddev	.33026	13.9	1.8350	.488	.179	.05356	18.1	.0549
%RSD	149.48	.33025	54.184	.77832	.56597	83.506	.22043	806.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47240	5.5960	3.1092	3156.3	6916.2	.29052	2825.8	13.373
Stddev	.26394	.3547	.2740	1.6	88.5	.01429	2.0	.096
%RSD	55.872	6.3380	8.8132	.04921	1.2793	4.9184	.07252	.72046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24589	6222.9	1.0381	2.1297	.5423	-.09437	.14494	93.417
Stddev	.19560	21.7	.6677	1.7218	.8766	.76915	.46485	.155
%RSD	79.549	.34948	64.319	80.843	161.6	815.03	320.71	.16540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49349-f-3-a Acquired: 4/17/2015 16:24:08 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.2276	7.3100	8.4744	5422.2	48.851
Stddev	1.0259	.4117	.1422	29.7	2.393
%RSD	46.054	5.6324	1.6778	.54684	4.8994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3623.7	2969.7	35550.	6486.7
Stddev	4.0	2.1	134.	28.3
%RSD	.11035	.07017	.37556	.43639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.336%	99.866%	101.95%	103.95%
Range				

Sample Name: 240-49349-f-5-a Acquired: 4/17/2015 16:28:12 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31779	4373.6	2.5830	56.232	30.459	.02474	7744.6	-.0575
Stddev	.58472	19.9	1.5445	.293	.099	.01883	10.4	.0688
%RSD	184.00	.45551	59.793	.52101	.32366	76.095	.13368	119.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46546	6.0257	3.3930	3292.5	6577.9	1.0413	2695.4	13.301
Stddev	.14373	.3406	.7716	17.4	31.3	1.3688	8.3	.110
%RSD	30.878	5.6524	22.742	.52862	.47587	131.45	.30612	.82647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31658	5816.3	1.3333	2.4366	1.258	.49257	-.19424	86.542
Stddev	.01599	40.1	.4607	1.2921	2.281	2.1278	.92331	.176
%RSD	5.0493	.68901	34.556	53.027	181.3	431.99	475.35	.20326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49349-f-5-a Acquired: 4/17/2015 16:28:12 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.7922	7.9921	8.6229	5283.8	41.432
Stddev	.5568	4.0393	.0803	38.2	2.875
%RSD	31.071	50.541	.93163	.72240	6.9402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3644.6	2982.2	35290.	6418.4
Stddev	14.2	11.9	673.	54.3
%RSD	.38974	.40003	1.9078	.84671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.911%	100.29%	101.21%	102.85%
Range				

Sample Name: 240-49349-f-6-a Acquired: 4/17/2015 16:32:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15242	66.280	2.6446	37.642	28.052	.00545	6619.7	-.1691
Stddev	.70240	13.042	.4780	.239	.147	.02350	17.1	.0623
%RSD	460.84	19.677	18.074	.63434	.52250	431.53	.25766	36.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1860	1.8842	.89584	147.07	1676.3	-.79265	3143.7	93.601
Stddev	.3640	.5634	.15846	.57	20.6	1.9831	11.8	.400
%RSD	30.691	29.901	17.689	.38729	1.2300	250.19	.37430	.42773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30130	15734.	9.1306	1.8388	.9234	-.48136	.12705	.26190
Stddev	.26691	23.	5.1437	.3663	2.643	2.4738	.74987	.14274
%RSD	88.585	.14333	56.335	19.920	286.3	513.91	590.20	54.501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49349-f-6-a Acquired: 4/17/2015 16:32:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.9099	-1.1333	4.5613	2400.3	34.168
Stddev	1.3274	1.6845	1.7137	8.6	2.391
%RSD	69.500	148.63	37.571	.35771	6.9975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3593.1	2933.9	35216.	6417.6
Stddev	29.6	27.6	64.	41.8
%RSD	.82301	.93925	.18262	.65160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.499%	98.665%	100.99%	102.84%
Range				

Sample Name: 240-49352-b-1-a Acquired: 4/17/2015 16:36:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.52667	-14.631	3.8377	1806.5	32.520	-.17966
Stddev	.42025	13.154	2.4013	2.6	.158	.03968
%RSD	79.793	89.904	62.571	.14389	.48450	22.085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	356880.	.5048	.55320	1.0508	4.3286	54.069
Stddev	2248.	.1336	.37016	.1172	.4741	1.732
%RSD	.62981	26.47	66.912	11.158	10.954	3.2041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12735.	6.5683	210380.	15.112	20.969	F 835160.
Stddev	65.	.9803	746.	.074	.210	4362.
%RSD	.50797	14.924	.35479	.48978	1.0005	.52233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49352-b-1-a Acquired: 4/17/2015 16:36:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.115	1.6643	3.108	3.6677	1.0106	-.40183
Stddev	.355	1.4534	1.080	1.1170	.8073	.09353
%RSD	2.7070	87.326	34.75	30.454	79.888	23.277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	4.0944	-.84989	2.6763	3424.7	1417.2
Stddev	.2310	1.9633	.0264	5.4	10.0
%RSD	5.6417	231.01	.98643	.15720	.70340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3213.7	2710.8	32731.	6085.3
Stddev	.4	2.7	88.	37.4
%RSD	.01376	.10024	.26998	.61415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.096%	91.160%	93.867%	97.514%
Range				

Sample Name: 240-49362-g-1-a Acquired: 4/17/2015 16:40:38 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.33237	52.118	3.4359	193.23	10.871	-.01269	45744.
Stddev	.62129	18.930	1.8302	.44	.087	.16152	106.
%RSD	186.92	36.321	53.267	.22758	.80065	1272.7	.23118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0546	.17011	3.3386	4.4180	65.069	87425.	44.252
Stddev	.2261	.39084	.0827	.5088	.830	287.	.669
%RSD	414.0	229.76	2.4773	11.516	1.2763	.32792	1.5108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26926.	154.58	6.4709	145560.	269.69	1.2433	2.818
Stddev	174.	.93	.0691	654.	1.24	.8344	1.209
%RSD	.64731	.60208	1.0671	.44897	.45802	67.112	42.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49362-g-1-a Acquired: 4/17/2015 16:40:38 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4476	6.1141	.87276	4.7454	1.2508	165.58	11318.
Stddev	1.5849	.2494	.15728	1.4717	.9181	.13	19.
%RSD	109.48	4.0788	18.021	31.012	73.403	.07632	.16512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	304.15
Stddev	1.25
%RSD	.41164
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3557.8	2928.0	35043.	6394.3
Stddev	4.9	1.2	132.	23.7
%RSD	.13892	.03961	.37603	.37103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.529%	98.465%	100.50%	102.47%
Range				

Sample Name: 240-49369-a-2-a Acquired: 4/17/2015 16:44:37 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07843	1372.9	6.5001	16793.	8.1355	-.00121	20859.
Stddev	.21406	14.4	1.6578	15.	.0516	.05194	37.
%RSD	272.93	1.0502	25.504	.08651	.63419	4294.2	.17915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1699	2.2498	14.524	170.08	418.81	184180.	2.3593
Stddev	.2098	.3689	.187	1.00	1.71	390.	1.9073
%RSD	123.5	16.398	1.2887	.59022	.40747	.21159	80.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5649.1	11.252	24.143	300710.	6.1529	10.323	2.213
Stddev	23.5	.106	.375	2450.	.5613	1.427	2.236
%RSD	.41630	.94197	1.5533	.81475	9.1217	13.820	101.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49369-a-2-a Acquired: 4/17/2015 16:44:37 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01085	3334.3	.39822	2.5973	2.7325	67.577	2143.6
Stddev	.53262	4.5	.16744	1.1032	2.3989	.285	116.9
%RSD	4908.6	.13413	42.048	42.474	87.789	.42191	5.4551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	50.623
Stddev	3.563
%RSD	7.0380
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3485.0	2924.1	34983.	6493.6
Stddev	10.5	6.3	77.	34.3
%RSD	.30253	.21605	.21970	.52834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.536%	98.335%	100.33%	104.06%
Range				

Sample Name: 240-49370-b-2-a Acquired: 4/17/2015 16:48:45 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03360	16.603	4.6767	130.38	3.0604	-.02948	8391.7
Stddev	.71159	14.137	1.3344	2.74	.0563	.04973	21.9
%RSD	2117.8	85.146	28.533	2.1016	1.8382	168.72	.26044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1356	.14228	1.8606	5.7724	59.380	133450.	2.1379
Stddev	.0258	.10358	.2893	1.2954	.237	175.	1.6196
%RSD	19.01	72.800	15.551	22.441	.39971	.13128	75.758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3787.7	136.18	3.6679	102670.	749.67	1.0083	7.853
Stddev	21.3	.37	.1410	192.	1.14	1.1680	2.322
%RSD	.56295	.26824	3.8452	.18653	.15200	115.83	29.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49370-b-2-a Acquired: 4/17/2015 16:48:45 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0213	18.464	.68786	1.9066	3.5980	212.05	13373.
Stddev	.9631	.473	.19936	.7898	1.7813	.71	42.
%RSD	47.651	2.5643	28.982	41.423	49.508	.33579	.31118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	27.458
Stddev	1.642
%RSD	5.9792
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3570.8	2940.9	35431.	6470.8
Stddev	7.7	3.5	67.	47.5
%RSD	.21651	.11836	.19010	.73388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.887%	98.897%	101.61%	103.69%
Range				

Sample Name: 240-49370-b-4-a Acquired: 4/17/2015 16:52:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07876	239.34	4.8986	167.10	12.531	-.02767	35723.
Stddev	.01640	3.34	1.2614	.57	.201	.04626	19.
%RSD	20.818	1.3942	25.749	.34030	1.6076	167.20	.05373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0431	.14159	2.3269	12.102	598.56	102010.	4.6651
Stddev	.0996	.20610	.2473	1.615	4.87	75.	.3923
%RSD	231.1	145.56	10.628	13.345	.81396	.07330	8.4085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6250.0	152.57	3.1981	128290.	549.67	5.7506	7.389
Stddev	19.4	.36	.1025	300.	.67	.2046	2.981
%RSD	.30978	.23745	3.2035	.23409	.12159	3.5585	40.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49370-b-4-a Acquired: 4/17/2015 16:52:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3158	20.953	1.8891	2.2908	.36895	235.35	10726.
Stddev	2.0424	.553	.1299	.2124	.25853	.16	17.
%RSD	155.22	2.6404	6.8784	9.2714	70.073	.06654	.15714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	188.49
Stddev	6.41
%RSD	3.4018
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3583.6	2947.7	35300.	6485.9
Stddev	4.9	2.7	28.	8.1
%RSD	.13620	.09200	.08001	.12528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.237%	99.128%	101.24%	103.93%
Range				

Sample Name: lb 240-176621/1-b Acquired: 4/17/2015 16:56:46 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24103	-18.291	-.08123	20.865	1.1020	-.02837	187.15
Stddev	.23712	18.920	1.6386	1.677	.1328	.06413	1.66
%RSD	98.375	103.44	2017.2	8.0376	12.050	226.04	.88700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0776	-.20610	1.0347	1.3893	19.261	320.11	-.22046
Stddev	.2384	.39464	.3765	.0969	1.130	33.55	1.1847
%RSD	307.1	191.48	36.386	6.9727	5.8691	10.481	537.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.073	.36975	-.02508	F 14828.	F 10.235	.14309	.9401
Stddev	14.835	.01230	.41972	68.	16.988	.47078	1.979
%RSD	47.741	3.3256	1673.3	.45923	165.97	329.02	210.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit				1000.0	10.000		
Low Limit				-1000.0	-1000.0		

Sample Name: lb 240-176621/1-b Acquired: 4/17/2015 16:56:46 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09816	33.095	.16711	-1.1114	.45706	5.1298	12.337
Stddev	.52630	.918	.01539	.6292	2.3646	3.5420	3.111
%RSD	536.17	2.7745	9.2094	56.611	517.35	69.049	25.219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	2.0625
Stddev	4.9423
%RSD	239.63
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3560.6	2926.1	35316.	6341.2
Stddev	28.7	25.7	85.	14.8
%RSD	.80599	.87822	.23954	.23409

Sample Name: CCV-1936246 Acquired: 4/17/2015 17:00:55 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1028.2	25279.	517.38	5274.2	2012.7	2043.6	50546.	513.3
Stddev	.7	145.	.82	10.8	3.9	10.4	172.	.4
%RSD	.06832	.57375	.15912	.20537	.19590	.51110	.33929	.0776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1971.1	2000.6	2037.1	24924.	50811.	4980.1	50432.	1919.4
Stddev	1.7	.8	3.6	39.	234.	7.1	295.	1.0
%RSD	.08807	.03774	.17475	.15463	.46033	.14259	.58516	.05323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2004.7	51022.	1969.2	491.27	512.2	529.36	5150.5	5151.6
Stddev	5.0	231.	2.8	2.23	1.1	3.75	4.3	27.6
%RSD	.24907	.45225	.14258	.45433	.2219	.70927	.08403	.53533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 17:00:55 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1031.3	2073.4	2000.1	5150.2	5132.2
Stddev	2.9	7.2	1.9	33.6	16.3
%RSD	.28546	.34583	.09702	.65157	.31725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3453.2	2860.7	34444.	6231.9
Stddev	9.5	9.7	117.	2.5
%RSD	.27411	.34070	.34043	.04041

Sample Name: CCB Acquired: 4/17/2015 17:04:44 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.59571	-11.658	2.3908	20.196	.26867	.38513	12.633	.0366
Stddev	.08530	11.995	.4649	1.207	.18172	.13598	.113	.1956
%RSD	14.319	102.89	19.446	5.9756	67.636	35.307	.89504	533.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05801	.48267	1.0384	7.3328	156.91	1.1791	-8.8123	.23858
Stddev	.11031	.14154	.3123	1.8606	18.05	.2960	3.5346	.00924
%RSD	190.18	29.324	30.072	25.374	11.504	25.106	40.110	3.8719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.40471	186.81	-.00845	1.1900	1.887	.60590	.77549	1.3438
Stddev	.07799	3.52	.12585	1.3264	1.174	2.4143	.84212	.0187
%RSD	19.271	1.8850	1489.6	111.46	62.23	398.46	108.59	1.3941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 17:04:44 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.0679	-2.4678	.03510	-4.7055	1.8475
Stddev	.4237	2.0528	.12495	8.0600	4.5979
%RSD	39.677	83.182	356.02	171.29	248.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3583.4	2925.7	35208.	6267.1
Stddev	8.0	7.0	73.	50.8
%RSD	.22456	.23979	.20620	.81054

Sample Name: mb 240-176715/2-a Acquired: 4/17/2015 17:08:52 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37442	-11.743	.36431	17.547	1.1259	.02134	188.67	-.0688
Stddev	.23323	24.079	.70719	.607	.1504	.06901	.75	.1290
%RSD	62.292	205.05	194.12	3.4570	13.361	323.44	.39515	187.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12256	1.1571	1.9497	22.053	114.59	.25857	54.395	.34590
Stddev	.13529	.2940	.3183	.838	33.56	1.7551	11.944	.00958
%RSD	110.39	25.407	16.326	3.7995	29.284	678.75	21.958	2.7704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18774	223.96	.34160	1.4195	3.055	1.6442	32.889	.44060
Stddev	.18073	11.90	.55528	.9576	1.607	1.1984	.472	.22299
%RSD	96.264	5.3139	162.55	67.464	52.58	72.888	1.4362	50.611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-176715/2-a Acquired: 4/17/2015 17:08:52 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.6287	-2.9726	2.7925	5.9530	1.2759
Stddev	.4490	3.1929	.0767	4.2336	1.8442
%RSD	27.567	107.41	2.7451	71.117	144.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3514.3	2902.7	35236.	6244.9
Stddev	8.2	3.1	176.	24.1
%RSD	.23209	.10649	.49993	.38575

Sample Name: lcs 240-176715/3-a Acquired: 4/17/2015 17:13:00 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.546	1917.9	1867.1	970.43	1873.3	47.153	213.48	47.32
Stddev	.506	20.7	.1	2.58	2.1	.175	1.44	.46
%RSD	1.1108	1.0785	.00797	.26549	.11321	.37093	.67445	.9656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	467.79	187.77	236.81	968.48	118.11	934.13	44.067	451.81
Stddev	.31	.25	1.61	3.66	35.48	2.22	4.981	.51
%RSD	.06712	.13182	.67941	.37770	30.039	.23760	11.303	.11381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	922.59	221.70	476.14	463.76	473.4	1867.3	1902.6	962.16
Stddev	1.49	5.50	.58	1.85	1.9	4.2	2.7	1.61
%RSD	.16112	2.4804	.12251	.39891	.3946	.22324	.14399	.16684
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: lcs 240-176715/3-a Acquired: 4/17/2015 17:13:00 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1861.6	483.72	472.83	964.47	989.83
Stddev	4.5	5.29	.85	7.74	7.12
%RSD	.24205	1.0937	.17969	.80302	.71967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3499.7	2888.0	35366.	6270.9
Stddev	2.6	1.8	97.	33.1
%RSD	.07481	.06082	.27525	.52721

Sample Name: 240-49222-a-3-g Acquired: 4/17/2015 17:16:45 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3846	-9.3690	.24403	536.27	2.8033	.02912	298.36	.9684
Stddev	.4883	17.614	.46950	1.71	.2221	.05902	1.56	.0980
%RSD	14.426	188.00	192.40	.31956	7.9241	202.71	.52200	10.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25795	.82171	244.25	351.82	1424.5	.31278	44.390	1.7943
Stddev	.37363	.24572	1.23	1.94	48.6	.40283	31.023	.0130
%RSD	144.85	29.903	.50282	.55032	3.4093	128.79	69.887	.72474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.299	2206.6	.85712	15.414	5.297	2.2646	38.504	1.5360
Stddev	.268	5.9	.53555	1.149	2.859	1.1449	.468	.1037
%RSD	.51176	.26588	62.483	7.4519	53.97	50.557	1.2164	6.7498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49222-a-3-g Acquired: 4/17/2015 17:16:45 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-2.4194	.08448	113.11	94.854	-.05007
Stddev	1.0545	2.4762	.22	9.278	3.1366
%RSD	43.587	2931.2	.19185	9.7813	6264.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3582.3	2936.6	35941.	6405.6
Stddev	1.7	4.8	44.	14.3
%RSD	.04704	.16307	.12223	.22332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.202%	98.753%	103.07%	102.65%
Range				

Sample Name: SD 240-49222-a-3-g@5 Acquired: 4/17/2015 17:20:48 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47444	-.47565	1.3649	115.93	.34048	-.05813	68.006	.1230
Stddev	.11341	1.1996	2.6475	.54	.29120	.04396	3.007	.1580
%RSD	23.905	252.20	193.97	.46781	85.525	75.630	4.4215	128.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12595	.56127	50.538	72.427	317.61	-1.2327	9.2927	.37601
Stddev	.16570	.15545	.962	1.904	16.80	1.7580	11.496	.02830
%RSD	131.56	27.696	1.9031	2.6285	5.2897	142.62	123.71	7.5271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.592	564.41	-.28826	3.3887	2.407	.17918	7.4296	.18306
Stddev	.095	7.56	.63517	2.7118	2.323	.74675	.3075	.05570
%RSD	.90121	1.3396	220.35	80.026	96.50	416.77	4.1393	30.427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-49222-a-3-g@5 Acquired: 4/17/2015 17:20:48 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.21822	-1.3255	23.999	18.016	.79143
Stddev	1.1412	4.4324	.147	5.330	3.1248
%RSD	522.97	334.40	.61223	29.585	394.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3574.5	2941.1	35577.	6336.7
Stddev	4.3	4.5	81.	31.2
%RSD	.12074	.15436	.22854	.49226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.989%	98.907%	102.03%	101.54%
Range				

Sample Name: 240-49222-a-3-h ms@5 Acquired: 4/17/2015 17:24:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	169.18	362.54	884.19	248.89	8851.8	8.8381	62.152	178.0
Stddev	.16	15.32	1.70	.36	91.0	.0321	5.433	.2
%RSD	.09500	4.2243	.19248	.14490	1.0281	.36341	8.7411	.1255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.443	878.23	96.431	243.93	205.13	176.96	8.0455	87.357
Stddev	.060	.58	.709	3.87	45.15	2.94	11.125	.366
%RSD	.06918	.06586	.73499	1.5864	22.010	1.6589	138.27	.41914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	184.50	318.30	88.469	883.35	89.86	182.10	349.00	174.82
Stddev	.29	6.86	.273	.77	2.84	.73	.51	.31
%RSD	.15646	2.1539	.30829	.08732	3.164	.40028	.14695	.17482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49222-a-3-h ms@5 Acquired: 4/17/2015 17:24:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	351.50	91.294	110.41	196.74	180.22
Stddev	.70	2.142	.25	8.49	4.63
%RSD	.19992	2.3458	.22256	4.3165	2.5678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3584.7	2941.5	35716.	6384.6
Stddev	2.6	3.2	87.	20.1
%RSD	.07173	.10746	.24397	.31464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.269%	98.920%	102.43%	102.31%
Range				

Sample Name: 240-49222-a-3-imsd@5 Acquired: 4/17/2015 17:28:53 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	166.26	346.99	871.07	232.36	8678.2	8.5677	58.287	175.0
Stddev	.30	12.08	1.49	.29	82.9	.0518	2.959	.2
%RSD	.18239	3.4805	.17056	.12675	.95522	.60421	5.0767	.0974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	86.559	860.97	89.790	236.53	155.39	173.53	-3.7093	86.288
Stddev	.375	3.99	.790	3.00	30.26	1.18	11.006	.089
%RSD	.43342	.46323	.87988	1.2687	19.477	.68058	296.71	.10334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	181.53	250.15	87.599	874.59	87.85	175.86	341.56	171.75
Stddev	.65	4.39	.390	1.04	2.10	1.99	.24	.21
%RSD	.36028	1.7556	.44501	.11886	2.389	1.1337	.06997	.12195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49222-a-3-imsd@5 Acquired: 4/17/2015 17:28:53 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	342.89	86.381	108.17	188.05	179.69
Stddev	2.45	2.364	.17	4.12	8.94
%RSD	.71324	2.7365	.15693	2.1928	4.9728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3576.4	2935.1	35623.	6400.6
Stddev	9.9	3.7	110.	36.1
%RSD	.27718	.12534	.30874	.56424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.039%	98.703%	102.16%	102.57%
Range				

Sample Name: 240-49363-h-4-a Acquired: 4/17/2015 17:32:50 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1916	42327.	21.075	97.956	460.72	2.6396	246840.
Stddev	.2857	95.	1.196	.191	.60	.0479	1297.
%RSD	23.978	.22443	5.6748	.19469	.13077	1.8138	.52535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.364	82.355	112.49	136.66	100550.	15315.	32.196
Stddev	.101	.489	.45	.65	190.	78.	.469
%RSD	7.424	.59369	.40356	.47247	.18891	.50872	1.4561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39222.	2028.2	.72668	2018.4	148.30	82.560	2.736
Stddev	150.	6.3	.15904	5.4	.35	1.515	.296
%RSD	.38367	.31241	21.885	.26961	.23562	1.8349	10.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49363-h-4-a Acquired: 4/17/2015 17:32:50 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.76748	35.473	1073.7	.27844	117.96	300.58	3076.7
Stddev	5.5883	.918	1.0	1.3683	.39	.71	34.4
%RSD	728.13	2.5882	.08888	491.42	.32947	.23516	1.1185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	280.02
Stddev	5.94
%RSD	2.1224
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.0	3022.2	36974.	6729.9
Stddev	6.9	6.7	140.	18.2
%RSD	.20133	.22015	.37894	.27106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.479%	101.63%	106.04%	107.84%
Range				

Sample Name: SD 240-49363-h-4-a@5 Acquired: 4/17/2015 17:36:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02831	9178.6	6.7993	25.897	98.782	.53526	54337.	.1745
Stddev	.32097	22.7	1.0588	.118	.334	.07751	101.	.1780
%RSD	1133.7	.24782	15.572	.45670	.33803	14.481	.18541	102.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.609	24.604	30.456	22117.	3284.5	5.5841	8795.3	440.21
Stddev	.115	.229	.901	76.	26.4	.5361	30.4	.44
%RSD	.69393	.92945	2.9597	.34379	.80431	9.6011	.34567	.10008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05974	508.01	29.778	19.497	2.733	.11024	6.9569	226.05
Stddev	.06574	5.09	.146	2.187	3.013	3.1322	.1318	.47
%RSD	110.04	1.0029	.49043	11.215	110.2	2841.1	1.8946	.20575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-49363-h-4-a@5 Acquired: 4/17/2015 17:36:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.67476	23.582	66.971	648.11	62.834
Stddev	1.7150	2.511	.414	3.19	2.669
%RSD	254.16	10.647	.61745	.49153	4.2483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3558.2	2948.5	35615.	6339.4
Stddev	5.5	4.3	50.	7.2
%RSD	.15392	.14590	.13964	.11425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.541%	99.156%	102.14%	101.58%
Range				

Sample Name: PDS 240-49363-h-4-a Acquired: 4/17/2015 17:40:50 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	96.288	46802.	324.57	3183.3	497.17	27.537	253290.
Stddev	.324	45.	1.47	2.9	1.21	.096	3104.
%RSD	.33656	.09628	.45440	.09167	.24388	.34802	1.2255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	353.9	242.29	298.05	592.62	103830.	20226.	533.22
Stddev	.3	.70	1.17	.57	236.	62.	2.99
%RSD	.0853	.28716	.39203	.09585	.22757	.30418	.56038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41698.	2004.6	100.09	53280.	414.42	229.72	151.6
Stddev	100.	5.2	.29	92.	1.39	1.81	1.9
%RSD	.24016	.25795	.29300	.17228	.33443	.78969	1.235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: PDS 240-49363-h-4-a Acquired: 4/17/2015 17:40:50 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	404.91	347.28	1548.1	479.26	167.26	818.73	6014.2
Stddev	3.03	.85	.3	.66	2.87	.79	23.0
%RSD	.74894	.24345	.01790	.13696	1.7178	.09616	.38168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	764.51
Stddev	10.74
%RSD	1.4054
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3387.3	3031.4	36770.	6617.7
Stddev	3.5	1.4	12.	6.8
%RSD	.10438	.04486	.03391	.10251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.856%	101.94%	105.45%	106.05%
Range				

Sample Name: 240-49363-h-4-b ms Acquired: 4/17/2015 17:44:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.535	75747.	1761.7	1153.6	2078.6	45.530	309320.
Stddev	.529	116.	4.0	.8	.3	.006	1506.
%RSD	1.3054	.15278	.22785	.07137	.01672	.01352	.48685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.56	542.40	322.04	362.39	118010.	73071.	903.65
Stddev	.14	.42	.76	.96	548.	233.	2.54
%RSD	.3248	.07753	.23679	.26598	.46471	.31837	.28076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	109960.	2875.7	815.70	46310.	634.97	509.35	200.5
Stddev	392.	2.9	.68	111.	23.81	2.47	1.3
%RSD	.35621	.10164	.08299	.24031	3.7502	.48553	.6303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49363-h-4-b ms Acquired: 4/17/2015 17:44:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1694.5	1792.7	2060.9	1800.5	544.41	767.11	8379.9
Stddev	5.3	6.6	3.3	1.3	.70	6.43	120.4
%RSD	.31405	.36807	.16137	.07053	.12929	.83845	1.4367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1200.3
Stddev	7.7
%RSD	.63763
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3236.4	2940.6	36614.	6623.9
Stddev	54.7	48.9	65.	21.1
%RSD	1.6914	1.6615	.17652	.31846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.719%	98.887%	105.01%	106.15%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 17:48:30 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1016.4	25747.	526.72	5242.8	1991.8	2066.8	51074.	513.6
Stddev	.9	46.	.30	7.2	3.8	7.8	91.	1.2
%RSD	.08489	.17850	.05759	.13813	.19300	.37860	.17912	.2273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2014.7	1916.0	2022.2	25349.	51419.	5034.0	51413.	1927.5
Stddev	3.1	7.1	3.1	32.	206.	4.0	202.	3.1
%RSD	.15178	.36832	.15538	.12467	.40095	.07877	.39244	.15871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2070.7	51867.	2017.0	507.23	513.8	517.89	5083.2	5122.3
Stddev	1.3	262.	6.5	.37	.8	1.11	2.9	32.3
%RSD	.06106	.50473	.32120	.07230	.1604	.21442	.05736	.63121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 17:48:30 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1004.5	2015.6	2046.9	5230.6	5107.8
Stddev	5.2	21.1	1.8	38.4	36.5
%RSD	.51881	1.0468	.08738	.73453	.71426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3416.0	2835.5	34833.	6126.3
Stddev	3.2	3.2	56.	27.7
%RSD	.09359	.11233	.16055	.45201

Sample Name: CCB Acquired: 4/17/2015 17:52:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31080	-.00158	1.3835	12.220	.16814	.26744	19.487	.1669
Stddev	.54627	10.923	1.5604	.549	.07625	.10614	2.068	.1143
%RSD	175.76	690420.	112.79	4.4959	45.352	39.690	10.611	68.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46556	.77709	2.7761	8.5016	147.31	1.6539	.89702	.36117
Stddev	.23512	.16150	.3903	.4755	13.12	1.2984	13.788	.17022
%RSD	50.502	20.783	14.058	5.5931	8.9049	78.508	1537.2	47.130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.81945	109.17	2.2959	.51217	.3321	1.4875	.56313	1.3519
Stddev	.31079	9.45	4.9500	2.3863	1.748	2.5148	.45470	.1036
%RSD	37.927	8.6565	215.61	465.92	526.2	169.06	80.744	7.6623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 17:52:19 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.13090	-1.5436	.65707	-2.4206	-5.5400
Stddev	1.5086	1.0479	.82953	6.2230	2.3909
%RSD	1152.5	67.890	126.25	257.08	43.157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3575.8	2919.3	35443.	6215.3
Stddev	4.1	5.5	137.	15.8
%RSD	.11357	.18830	.38519	.25386

Sample Name: 240-49363-h-4-c msd Acquired: 4/17/2015 17:56:26 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.404	80421.	1752.5	1133.9	2337.2	45.379	291900.
Stddev	.260	166.	.9	1.6	4.4	.147	4683.
%RSD	.64245	.20620	.05229	.13818	.18921	.32396	1.6042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.23	558.13	330.44	396.33	137510.	73557.	897.82
Stddev	.27	.39	.78	1.06	453.	110.	.52
%RSD	.6088	.07066	.23682	.26794	.32935	.14955	.05774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90500.	4965.3	816.93	45682.	663.16	509.84	208.1
Stddev	128.	11.9	1.14	56.	7.47	1.58	1.4
%RSD	.14134	.24015	.13941	.12351	1.1268	.31022	.6692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49363-h-4-c msd Acquired: 4/17/2015 17:56:26 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1668.0	1798.7	2134.0	1803.4	559.31	789.22	9593.1
Stddev	4.0	2.5	3.3	8.4	5.28	1.21	212.1
%RSD	.23696	.13719	.15236	.46828	.94413	.15312	2.2111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	1156.3
Stddev	5.9
%RSD	.50599
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3283.4	3022.3	37260.	6741.0
Stddev	12.7	13.7	129.	48.0
%RSD	.38633	.45417	.34698	.71221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.007%	101.64%	106.86%	108.02%
Range				

Sample Name: 240-49363-k-5-a Acquired: 4/17/2015 18:00:24 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.81070	50392.	25.932	90.618	506.07	2.8464	93378.
Stddev	.31231	31.	1.604	.438	.69	.0352	7.
%RSD	38.523	.06206	6.1866	.48285	.13683	1.2371	.00748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.341	59.814	103.88	111.86	101820.	8563.9	36.740
Stddev	.198	.316	.24	.88	155.	23.8	.466
%RSD	14.75	.52789	.22722	.78649	.15263	.27763	1.2674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39937.	2508.6	2.5109	1393.8	131.20	98.080	4.025
Stddev	59.	9.5	.3449	7.3	4.81	1.306	1.212
%RSD	.14888	.37852	13.737	.52376	3.6699	1.3317	30.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49363-k-5-a Acquired: 4/17/2015 18:00:24 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4599	33.698	1658.3	-.46591	158.99	271.39	2573.4
Stddev	1.2796	.554	.2	.41511	1.54	1.26	19.3
%RSD	52.017	1.6433	.01507	89.097	.96675	.46318	.75065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	141.97
Stddev	2.91
%RSD	2.0491
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3498.3	3116.9	37801.	6800.5
Stddev	6.1	6.4	132.	11.3
%RSD	.17312	.20603	.34992	.16671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.901%	104.82%	108.41%	108.98%
Range				

Sample Name: 240-49373-h-1-a Acquired: 4/17/2015 18:04:18 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01344	73656.	50.191	92.147	936.29	4.9141	59431.
Stddev	.29666	189.	1.722	.773	.90	.0132	112.
%RSD	2207.4	.25693	3.4307	.83862	.09636	.26774	.18927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.182	53.566	135.48	124.66	104060.	7440.2	44.656
Stddev	.138	.102	.63	1.05	161.	14.7	.487
%RSD	6.325	.19049	.46196	.84555	.15501	.19694	1.0898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20524.	2799.2	1.0406	968.23	124.39	133.89	4.328
Stddev	53.	4.9	.1495	20.44	.54	.81	1.074
%RSD	.25609	.17358	14.365	2.1106	.43143	.60313	24.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49373-h-1-a Acquired: 4/17/2015 18:04:18 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.4360	34.600	791.11	-1.3487	184.37	340.82	3285.3
Stddev	3.6170	.677	.67	1.8741	1.59	.88	41.0
%RSD	81.537	1.9576	.08437	138.95	.86057	.25838	1.2477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	185.46
Stddev	1.56
%RSD	.84244
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3506.7	3201.0	38380.	6989.6
Stddev	3.0	2.5	53.	18.5
%RSD	.08479	.07883	.13711	.26414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.129%	107.64%	110.07%	112.00%
Range				

Sample Name: 240-49373-e-3-a Acquired: 4/17/2015 18:08:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48760	52927.	25.311	138.48	515.84	2.0160
Stddev	.25433	140.	.938	.52	.81	.0880
%RSD	52.159	.26502	3.7044	.37768	.15677	4.3671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 868210.	1.023	39.207	122.71	114.50	123470.
Stddev	2935.	.236	.379	.92	.56	420.
%RSD	.33799	23.09	.96694	.75310	.48825	.34028
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	800000.					
Low Limit	-500000.					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10920.	2.2098	216370.	4646.3	4.0768	4192.9
Stddev	109.	.6882	342.	18.2	.2614	3.4
%RSD	1.0009	31.142	.15790	.39172	6.4110	.08035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-49373-e-3-a Acquired: 4/17/2015 18:08:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	110.07	80.907	2.944	1.2799	35.938	2418.8
Stddev	.42	2.858	2.520	2.4845	.199	1.7
%RSD	.37938	3.5329	85.60	194.12	.55280	.07175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	4.2214	162.48	313.00	4004.5	640.17
Stddev	.9942	2.23	1.32	12.7	1.66
%RSD	23.550	1.3711	.42295	.31776	.25941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3194.5	2834.0	34521.	6444.8
Stddev	3.2	2.1	164.	26.6
%RSD	.10133	.07409	.47390	.41254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.572%	95.302%	99.001%	103.27%
Range				

Sample Name: 240-49373-b-4-a Acquired: 4/17/2015 18:12:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9567	71306.	33.120	371.48	161.46	5.6170	104050.
Stddev	.3508	87.	.755	1.16	.13	.0956	78.
%RSD	17.929	.12251	2.2793	.31272	.07888	1.7013	.07509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0381	144.50	128.27	303.27	150860.	43712.	93.574
Stddev	.0710	.78	.25	1.26	199.	74.	1.004
%RSD	186.2	.54247	.19657	.41682	.13217	.16868	1.0726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	60031.	1437.5	-.77589	1076.0	289.22	27.775	2.316
Stddev	194.	8.9	.20892	7.6	.66	1.718	.936
%RSD	.32249	.62157	26.926	.70993	.22964	6.1852	40.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49373-b-4-a Acquired: 4/17/2015 18:12:19 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4804	33.830	800.38	-1.9625	55.690	224.73	3400.7
Stddev	1.3731	.496	1.03	1.8366	1.612	.35	19.9
%RSD	92.756	1.4666	.12808	93.584	2.8946	.15554	.58547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	492.81
Stddev	11.59
%RSD	2.3520
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3422.5	3206.2	39053.	7097.4
Stddev	9.0	3.5	174.	35.1
%RSD	.26323	.10947	.44436	.49513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.822%	107.82%	112.00%	113.73%
Range				

Sample Name: 240-49373-b-43-a Acquired: 4/17/2015 18:16:09 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.68351	32128.	18.118	16.017	286.77	1.6007	12924.	.1281
Stddev	.46901	78.	3.340	.374	.10	.0658	38.	.0708
%RSD	68.618	.24268	18.434	2.3361	.03451	4.1104	.29108	55.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.900	64.070	26.527	60629.	2834.7	18.152	6367.2	2171.8
Stddev	.343	.472	.222	123.	20.9	.865	19.6	9.6
%RSD	.88123	.73637	.83637	.20265	.73612	4.7670	.30853	.44377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.86345	471.12	62.623	31.370	1.392	.99322	27.235	1237.2
Stddev	.18435	7.16	.781	.778	3.001	1.2242	.488	2.3
%RSD	21.350	1.5190	1.2477	2.4793	215.7	123.26	1.7929	.18665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49373-b-43-a Acquired: 4/17/2015 18:16:09 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.74695	120.20	97.242	2269.2	42.301
Stddev	.78162	2.65	.196	16.8	4.482
%RSD	104.64	2.2051	.20121	.73924	10.596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3571.4	3063.7	37023.	6649.1
Stddev	1.1	1.2	190.	52.1
%RSD	.03119	.03842	.51209	.78306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.902%	103.03%	106.18%	106.55%
Range				

Sample Name: 240-49374-b-1-a Acquired: 4/17/2015 18:20:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1411	45039.	40.228	132.26	270.96	3.2977	197290.
Stddev	.3403	92.	.445	.54	.39	.1435	3288.
%RSD	29.825	.20366	1.1067	.41060	.14526	4.3518	1.6663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5359	77.511	96.755	69.163	115660.	15707.	45.277
Stddev	.1919	.153	.485	.977	460.	51.	.826
%RSD	35.80	.19756	.50095	1.4131	.39755	.32273	1.8238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	64209.	2829.2	1.1014	938.02	156.16	34.924	1.898
Stddev	293.	3.6	.1783	10.02	1.01	.441	2.632
%RSD	.45687	.12709	16.187	1.0678	.64878	1.2639	138.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-1-a Acquired: 4/17/2015 18:20:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0552	33.328	1055.7	1.8087	114.10	192.05	3598.2
Stddev	1.3146	.260	.8	.4570	1.15	.31	21.9
%RSD	124.58	.77908	.07854	25.265	1.0108	.16085	.60825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	247.01
Stddev	3.92
%RSD	1.5869
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3402.3	3184.8	38959.	6984.4
Stddev	3.1	4.3	83.	32.6
%RSD	.09053	.13607	.21194	.46703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.269%	107.10%	111.73%	111.92%
Range				

Sample Name: 240-49374-b-2-a Acquired: 4/17/2015 18:24:05 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.74888	38720.	25.007	78.709	229.27	2.1733	139170.
Stddev	.67942	65.	.838	.617	.65	.0316	137.
%RSD	90.726	.16829	3.3520	.78364	.28387	1.4544	.09812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9338	59.702	101.99	95.206	128480.	8303.2	40.351
Stddev	.1172	.736	.51	.735	292.	18.3	1.106
%RSD	12.55	1.2333	.49914	.77191	.22748	.22047	2.7408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52585.	2245.0	.71195	846.49	145.91	33.252	.8939
Stddev	31.	5.3	.20988	10.07	5.70	.618	2.985
%RSD	.05840	.23449	29.480	1.1897	3.9084	1.8583	333.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-2-a Acquired: 4/17/2015 18:24:05 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09790	33.177	1916.3	.73046	148.84	232.15	3114.8
Stddev	2.3368	.908	2.4	1.8580	1.39	1.13	18.7
%RSD	2387.0	2.7369	.12465	254.36	.93570	.48667	.59949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	143.26
Stddev	3.93
%RSD	2.7412
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3450.2	2998.1	36578.	6522.4
Stddev	13.2	9.1	41.	15.9
%RSD	.38206	.30382	.11156	.24339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.582%	100.82%	104.90%	104.52%
Range				

Sample Name: 240-49374-b-3-a Acquired: 4/17/2015 18:27:58 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37372	25393.	18.684	34.997	216.49	1.2977	258340.
Stddev	.57591	81.	.861	.252	.35	.0125	2248.
%RSD	154.10	.31901	4.6104	.72078	.16092	.96156	.87018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7674	34.179	54.372	70.351	64536.	4401.8	25.512
Stddev	.1128	.045	.415	.241	84.	5.0	2.142
%RSD	14.70	.13259	.76324	.34202	.12995	.11354	8.3973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	112570.	1893.7	.47397	1145.4	81.513	21.777	1.627
Stddev	323.	3.7	.10212	2.5	.953	.380	2.069
%RSD	.28657	.19451	21.545	.21521	1.1695	1.7468	127.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-3-a Acquired: 4/17/2015 18:27:58 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4037	29.062	1490.8	.38334	89.712	147.58	2520.9
Stddev	2.2797	.672	1.3	1.4889	1.487	.14	2.2
%RSD	162.41	2.3121	.08547	388.40	1.6578	.09686	.08731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	165.31
Stddev	4.70
%RSD	2.8417
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3369.8	2934.5	35907.	6442.9
Stddev	9.9	7.0	50.	17.5
%RSD	.29525	.23814	.13872	.27114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.377%	98.684%	102.98%	103.24%
Range				

Sample Name: 240-49374-b-4-a Acquired: 4/17/2015 18:32:00 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.51192	45984.	44.467	139.34	441.64	4.4487	96741.
Stddev	.55246	92.	2.236	.90	.58	.0882	75.
%RSD	107.92	.20093	5.0296	.64627	.13223	1.9837	.07713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3637	95.241	111.54	72.648	150580.	15483.	40.996
Stddev	.0873	.535	.34	.718	79.	50.	1.370
%RSD	24.01	.56153	.30357	.98793	.05233	.32486	3.3410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54741.	2708.0	.37722	923.35	334.59	27.547	2.355
Stddev	139.	11.3	.29986	7.49	.56	1.925	1.420
%RSD	.25471	.41593	79.493	.81076	.16826	6.9888	60.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-4-a Acquired: 4/17/2015 18:32:00 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.77403	26.288	650.77	1.5808	129.81	165.75	2943.4
Stddev	1.9574	.652	.47	1.7368	4.29	.26	18.2
%RSD	252.88	2.4813	.07256	109.87	3.3011	.15438	.61770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	190.16
Stddev	7.65
%RSD	4.0229
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3482.6	3155.0	38409.	6841.5
Stddev	5.8	6.1	221.	33.5
%RSD	.16710	.19476	.57662	.48943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.470%	106.10%	110.15%	109.63%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 18:35:52 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1018.2	25661.	531.51	5229.4	1991.7	2043.0	50962.	512.3
Stddev	1.5	29.	2.42	1.4	.3	7.5	35.	.4
%RSD	.14538	.11145	.45613	.02584	.01387	.36558	.06883	.0771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2017.3	1920.0	2035.2	25480.	50932.	5021.1	50777.	1951.8
Stddev	3.6	6.0	3.9	29.	97.	7.2	235.	7.7
%RSD	.17849	.31501	.19379	.11281	.19120	.14254	.46205	.39356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2079.5	51235.	2021.0	510.59	514.3	515.32	5072.2	5089.8
Stddev	5.6	137.	3.5	6.79	3.9	4.19	7.0	7.5
%RSD	.26727	.26652	.17403	1.3301	.7541	.81387	.13818	.14719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 18:35:52 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1007.3	1995.5	2050.8	5223.0	5069.1
Stddev	6.9	6.0	4.7	45.7	21.4
%RSD	.68924	.30263	.22861	.87454	.42237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3412.4	2832.5	34570.	6159.3
Stddev	14.5	12.5	110.	17.0
%RSD	.42628	.44213	.31751	.27555

Sample Name: CCB Acquired: 4/17/2015 18:39:42 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13426	-1.4342	1.6715	8.2260	.33797	.29245	22.213	.0326
Stddev	.19929	18.611	1.4772	.7763	.23504	.09089	4.745	.0783
%RSD	148.43	1297.7	88.376	9.4376	69.544	31.079	21.362	240.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18329	.24879	2.9490	16.681	104.98	2.0177	-9.1339	.39008
Stddev	.27572	.44054	.6143	2.700	35.18	.5412	4.2255	.08167
%RSD	150.43	177.07	20.830	16.185	33.510	26.820	46.262	20.937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64166	90.586	-.09459	.72081	-.8063	.24601	.40297	1.4164
Stddev	.12809	8.699	.43868	1.2827	1.979	2.4104	.51123	.5552
%RSD	19.963	9.6030	463.77	177.95	245.4	979.82	126.87	39.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 18:39:42 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.33430	1.9937	.06822	-.37997	1.7485
Stddev	1.0978	1.7306	.06524	2.8160	3.5830
%RSD	328.39	86.805	95.643	741.10	204.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3535.1	2891.5	35075.	6194.4
Stddev	5.7	4.6	50.	15.9
%RSD	.16198	.15978	.14319	.25705

Sample Name: 240-49374-b-5-a Acquired: 4/17/2015 18:43:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1123	12805.	18.169	35.165	77.703	1.0185	233830.
Stddev	.3486	41.	2.057	.320	.309	.0159	694.
%RSD	31.338	.32331	11.323	.90939	.39752	1.5608	.29693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4402	32.604	54.471	35.243	62590.	1954.5	5.8447
Stddev	.1900	.089	.215	1.234	130.	38.4	.5558
%RSD	43.16	.27295	.39449	3.5012	.20779	1.9644	9.5101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74446.	1742.8	.37325	642.44	109.77	24.138	1.484
Stddev	344.	3.5	.08631	8.19	.90	.686	2.753
%RSD	.46258	.20022	23.123	1.2745	.81782	2.8400	185.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-5-a Acquired: 4/17/2015 18:43:51 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18559	31.795	1455.8	-.55284	110.10	89.428	2569.8
Stddev	1.9023	1.312	.8	.34230	3.04	.248	16.9
%RSD	1025.0	4.1262	.05321	61.918	2.7599	.27720	.65652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	167.35
Stddev	.75
%RSD	.44769
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3401.9	2969.4	36356.	6446.5
Stddev	7.8	6.5	175.	2.4
%RSD	.22811	.21802	.48232	.03762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.256%	99.856%	104.26%	103.30%
Range				

Sample Name: 240-49330-c-10-b Acquired: 4/17/2015 18:47:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9774	172350.	-.10141	11.907	180.09	.30002
Stddev	.3998	571.	3.1592	.326	.50	.03264
%RSD	20.218	.33121	3115.2	2.7409	.27571	10.880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25346.	3.682	1.4471	328.63	23.721	233470.
Stddev	66.	.211	.1088	1.17	1.007	2117.
%RSD	.26214	5.736	7.5181	.35684	4.2453	.90679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 710450.	6.8686	936.71	F 28518.	28.761	150670.
Stddev	10088.	.4108	14.98	167.	.508	532.
%RSD	1.4199	5.9813	1.5997	.58518	1.7680	.35315
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	500000.			15000.		
Low Limit	-500000.			-500000.		

Sample Name: 240-49330-c-10-b Acquired: 4/17/2015 18:47:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12401.	68.748	5.078	2.6838	48.301	29.394
Stddev	107.	1.920	3.024	2.7689	2.053	.214
%RSD	.86450	2.7924	59.54	103.17	4.2502	.72866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	26.748	3.2997	F 195320.	18572.	166.87
Stddev	1.793	2.2933	858.	4228.	2.95
%RSD	6.7014	69.500	.43926	22.763	1.7698
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			10000.		
Low Limit			-500000.		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3322.0	2819.4	33583.	6116.5
Stddev	8.5	7.1	183.	9.6
%RSD	.25484	.25093	.54354	.15707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.067%	94.813%	96.312%	98.014%
Range				

Sample Name: 240-49330-c-11-b Acquired: 4/17/2015 18:52:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8403	43673.	2.6030	350.52	941.03	6.2152
Stddev	.8738	126.	3.1830	.67	2.68	.0130
%RSD	47.483	.28884	122.28	.19043	.28498	.20849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94449.	-4.129	69.821	1791.9	8965.6	F 1941700.
Stddev	153.	.238	.748	3.2	6.5	13085.
%RSD	.16189	5.757	1.0719	.18091	.07252	.67389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30776.	1.4891	4159.4	F 18286.	256.86	4460.8
Stddev	78.	1.0723	4.9	137.	2.03	16.6
%RSD	.25457	72.008	.11733	.74686	.79186	.37167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				15000.		
Low Limit				-500000.		

Sample Name: 240-49330-c-11-b Acquired: 4/17/2015 18:52:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1009.2	177.01	24.10	8.2882	155.62	928.52
Stddev	3.2	.94	5.95	3.1834	1.67	2.71
%RSD	.31666	.53027	24.68	38.409	1.0738	.29172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	30.894	154.34	F 269130.	3858.7	195.43
Stddev	1.332	1.83	92.	21.2	4.11
%RSD	4.3127	1.1854	.03420	.54914	2.1037
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			10000.		
Low Limit			-500000.		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3403.4	2636.2	33345.	6057.5
Stddev	8.4	2.7	67.	20.2
%RSD	.24581	.10082	.20170	.33337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.298%	88.652%	95.628%	97.068%
Range				

Sample Name: 240-49330-c-11-b@10 Acquired: 4/17/2015 18:56:30 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39973	4407.9	3.2585	37.725	94.012	.54565	9900.1
Stddev	.34274	45.3	.9762	.182	.220	.05571	28.9
%RSD	85.741	1.0286	29.960	.48129	.23391	10.210	.29232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2321	6.8129	188.82	852.73	241000.	3177.7	3.3162
Stddev	.0943	.2274	.73	2.47	4044.	19.5	1.0888
%RSD	40.65	3.3380	.38686	.28911	1.6778	.61330	32.834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	444.87	2025.2	25.143	476.84	110.92	17.004	4.858
Stddev	22.81	7.8	.028	9.88	.51	2.857	2.008
%RSD	5.1280	.38450	.10970	2.0720	.46243	16.799	41.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49330-c-11-b@10 Acquired: 4/17/2015 18:56:30 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4226	17.004	92.587	5.3036	13.400	F 80361.	390.05
Stddev	1.4653	.368	.318	1.6960	3.456	478.	8.61
%RSD	60.483	2.1670	.34308	31.977	25.791	.59488	2.2067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						10000.	
Low Limit						-500000.	

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	16.548
Stddev	8.641
%RSD	52.217
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3565.0	2900.8	35116.	6226.5
Stddev	3.8	3.0	164.	34.5
%RSD	.10634	.10457	.46663	.55430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.729%	97.551%	100.71%	99.777%
Range				

Sample Name: 240-49331-d-1-a Acquired: 4/17/2015 19:00:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06327	.51830	.18582	30.227	2.8264	-.02216	2334.1	2.058
Stddev	.40784	10.464	.52112	.429	.0653	.05089	10.6	.121
%RSD	644.57	2019.0	280.44	1.4179	2.3089	229.65	.45263	5.854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.45092	1.3100	15.330	417.20	1177.2	12.556	253.60	11.713
Stddev	.47335	.4769	.638	52.86	51.3	1.210	9.55	.126
%RSD	104.97	36.405	4.1622	12.671	4.3561	9.6361	3.7652	1.0759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.2229	1880.4	3.3022	4.0272	1.290	1.5982	32.616	1.4615
Stddev	.0226	16.7	.0808	1.3361	3.154	1.8076	.632	.1056
%RSD	.24448	.88555	2.4463	33.176	244.6	113.10	1.9368	7.2254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49331-d-1-a Acquired: 4/17/2015 19:00:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.4703	.03642	173.08	207.06	12.107
Stddev	.9001	.47253	8.64	5.89	5.966
%RSD	61.215	1297.6	4.9892	2.8446	49.281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3548.8	2926.0	35152.	6264.2
Stddev	4.2	1.7	134.	31.5
%RSD	.11852	.05857	.37976	.50326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.283%	98.397%	100.81%	100.38%
Range				

Sample Name: 240-49332-d-1-a Acquired: 4/17/2015 19:04:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02843	15.249	-1.9228	6.4909	2.8021	-.00102	645.04	.0656
Stddev	.23022	15.125	3.0258	.4135	.1406	.05835	1.80	.1522
%RSD	809.64	99.183	157.36	6.3707	5.0191	5725.7	.27961	232.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37824	.51138	1.9562	85.542	775.62	.86992	88.171	2.1443
Stddev	.20137	.14228	.7639	3.246	21.59	.39746	19.138	.0185
%RSD	53.237	27.822	39.053	3.7951	2.7833	45.689	21.706	.86087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.40328	941.71	.25141	-.35132	-.0717	.52183	31.138	.25838
Stddev	.20439	4.56	.54649	.44304	.5082	1.7755	.052	.35011
%RSD	50.682	.48457	217.37	126.11	709.2	340.25	.16670	135.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49332-d-1-a Acquired: 4/17/2015 19:04:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.1694	.03535	31.033	73.411	5.5523
Stddev	1.4522	3.1431	13.773	4.475	1.2731
%RSD	124.18	8891.8	44.383	6.0960	22.929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3586.5	2962.3	35454.	6434.7
Stddev	12.1	11.6	73.	15.6
%RSD	.33785	.39273	.20674	.24273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.318%	99.618%	101.68%	103.11%
Range				

Sample Name: 240-49333-d-1-a Acquired: 4/17/2015 19:08:53 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17879	101250.	5.7235	20.088	20199.	.19945	16298.
Stddev	.42702	99.	1.9017	.057	330.	.05453	48.
%RSD	238.84	.09764	33.227	.28418	1.6313	27.338	.29434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1203	-.78106	16.241	54.372	5917.2	1124.3	157.45
Stddev	.1641	.25745	.232	.107	4.2	26.3	1.24
%RSD	136.4	32.962	1.4290	.19672	.07155	2.3348	.78678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9170.4	47.534	138.85	5391.1	14.699	2.3023	1.821
Stddev	42.5	.206	.32	11.4	.760	1.6059	3.470
%RSD	.46357	.43312	.23317	.21199	5.1672	69.750	190.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49333-d-1-a Acquired: 4/17/2015 19:08:53 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.1514	263.12	725.79	-7.1175	970.34	217.89	5036.0
Stddev	1.7374	.74	1.89	1.7550	8.32	.34	13.8
%RSD	41.852	.28219	.25983	24.657	.85736	.15375	.27447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	444.90
Stddev	4.97
%RSD	1.1181
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3519.7	2901.8	35279.	6526.8
Stddev	6.1	6.7	51.	18.3
%RSD	.17273	.23196	.14466	.28042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.486%	97.583%	101.18%	104.59%
Range				

Sample Name: 240-49340-a-1-b Acquired: 4/17/2015 19:12:56 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02033	73.451	1.2226	37.343	11.109	-.00117	5111.7	.2833
Stddev	.16741	9.357	.1685	.352	.327	.06686	7.8	.1205
%RSD	823.43	12.739	13.783	.94283	2.9448	5730.3	.15266	42.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16084	3.6241	37.800	1707.7	503.51	1.4762	158.60	22.400
Stddev	.28353	.5284	.687	10.9	3.35	.7264	7.75	.090
%RSD	176.28	14.580	1.8179	.64105	.66526	49.207	4.8861	.40271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	350.33	399.19	2.0025	5.7504	1.231	1.3039	32.321	2.6545
Stddev	.93	8.22	.4392	1.5610	1.668	.5363	.581	.1219
%RSD	.26664	2.0602	21.932	27.146	135.5	41.133	1.7967	4.5935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49340-a-1-b Acquired: 4/17/2015 19:12:56 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-2.7669	-.91677	39.353	238.49	8.1331
Stddev	1.0769	1.1283	1.555	1.42	6.1972
%RSD	38.919	123.07	3.9525	.59697	76.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3583.3	2952.9	35642.	6400.8
Stddev	6.3	5.2	140.	29.3
%RSD	.17527	.17594	.39285	.45765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.230%	99.301%	102.22%	102.57%
Range				

Sample Name: 240-49340-a-2-b Acquired: 4/17/2015 19:16:57 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28005	5.2711	2.4931	38.771	1.6067	-.00065	2156.8	.2048
Stddev	.29434	17.753	3.7990	.344	.0286	.03117	11.1	.0946
%RSD	105.11	336.80	152.38	.88603	1.7803	4761.8	.51308	46.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05693	.75766	8.7949	89.028	176.23	.87631	42.188	.56597
Stddev	.30135	.44418	.5868	.897	42.00	.26256	8.921	.00918
%RSD	529.36	58.625	6.6726	1.0075	23.830	29.961	21.146	1.6220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	388.85	148.89	.18954	5.3902	2.690	1.1036	30.676	.13007
Stddev	.64	3.70	.67255	1.0263	.469	4.3945	.632	.31765
%RSD	.16523	2.4862	354.83	19.040	17.43	398.18	2.0602	244.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49340-a-2-b Acquired: 4/17/2015 19:16:57 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-3.9069	-1.8003	4.6782	22.490	.59979
Stddev	.5629	4.5393	.0222	4.483	5.1553
%RSD	14.409	252.15	.47422	19.933	859.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3625.5	2979.6	36084.	6482.4
Stddev	8.5	8.7	114.	86.0
%RSD	.23409	.29081	.31580	1.3267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.385%	100.20%	103.48%	103.88%
Range				

Sample Name: mb 240-176730/1-a Acquired: 4/17/2015 19:21:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14841	.52913	.99035	2.2422	1.1700	-.08044	193.54	.1907
Stddev	.24924	6.7931	.47421	.1266	.0944	.03445	3.95	.0747
%RSD	167.94	1283.8	47.883	5.6477	8.0677	42.824	2.0430	39.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24834	.72634	2.8178	27.357	175.77	1.4098	42.756	2.2889
Stddev	.04708	.16056	1.4726	1.639	30.10	1.2531	25.277	.0511
%RSD	18.957	22.105	52.261	5.9903	17.125	88.883	59.120	2.2318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.45172	93.932	.86748	1.5979	.1308	.95270	31.201	.08551
Stddev	.23333	4.345	.16757	.5094	1.887	1.6635	.379	.25624
%RSD	51.653	4.6252	19.316	31.880	1443.	174.61	1.2138	299.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: mb 240-176730/1-a Acquired: 4/17/2015 19:21:04 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.8582	-.58089	3.5955	10.146	-.38599
Stddev	.6810	1.7713	.5631	.701	3.5095
%RSD	36.646	304.93	15.662	6.9115	909.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3555.1	2940.1	35210.	6253.1
Stddev	2.8	2.1	109.	43.1
%RSD	.07832	.07131	.30854	.68943

Sample Name: CCV-1936246 Acquired: 4/17/2015 19:25:11 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1025.3	25566.	531.94	5253.9	2001.2	2035.2	50986.	514.4
Stddev	2.4	26.	1.24	6.8	2.5	4.4	125.	.7
%RSD	.23024	.10109	.23239	.12887	.12250	.21767	.24590	.1433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2022.4	1942.5	2045.8	25395.	50777.	5020.0	50518.	1963.3
Stddev	4.9	3.5	4.0	116.	135.	12.0	32.	5.5
%RSD	.24404	.18075	.19361	.45623	.26658	.23814	.06388	.27943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2080.2	51206.	2024.2	509.51	513.0	522.25	5111.2	5134.4
Stddev	2.4	113.	3.6	2.75	1.6	1.64	8.4	46.1
%RSD	.11313	.22043	.17881	.53894	.3087	.31338	.16514	.89693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 19:25:11 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1012.9	2008.6	2057.7	5188.7	5066.8
Stddev	2.6	2.0	6.1	15.8	5.1
%RSD	.25422	.09892	.29435	.30529	.10151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3417.1	2838.7	34526.	6191.3
Stddev	3.4	8.0	94.	31.8
%RSD	.09876	.28192	.27364	.51330

Sample Name: CCB Acquired: 4/17/2015 19:28:57 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01390	5.8124	-.28552	6.7901	.39765	.23800	11.883	-.1413
Stddev	.29696	13.998	.43228	.4262	.12136	.10751	1.159	.0642
%RSD	2135.8	240.83	151.40	6.2768	30.519	45.170	9.7549	45.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22124	.55627	2.4982	6.4049	136.26	3.7233	1.5594	.28972
Stddev	.10785	.42820	.1601	2.6362	10.31	1.9303	13.167	.04107
%RSD	48.749	76.977	6.4086	41.159	7.5667	51.845	844.39	14.175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.70096	44.415	.03365	.78277	1.763	1.8074	.39441	1.5149
Stddev	.03622	9.872	.35652	.13396	3.359	1.2693	.23377	.2227
%RSD	5.1668	22.227	1059.4	17.114	190.5	70.228	59.270	14.700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 19:28:57 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.41888	-.73561	.69352	-2.3521	-3.1200
Stddev	.51538	2.0861	.14015	1.9571	4.9527
%RSD	123.04	283.59	20.209	83.206	158.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3566.8	2923.6	35257.	6213.9
Stddev	.7	2.9	124.	22.7
%RSD	.02063	.09769	.35118	.36496

Sample Name: lcs 240-176730/2-a Acquired: 4/17/2015 19:33:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.896	1917.2	1923.2	966.73	1842.5	46.893	47860.	46.90
Stddev	.561	18.7	1.1	1.15	1.5	.012	66.	.23
%RSD	1.2506	.97721	.05966	.11862	.08068	.02643	.13712	.4972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	468.35	180.02	238.85	984.15	47316.	937.67	47514.	455.65
Stddev	.63	.74	.60	5.33	121.	2.27	43.	.60
%RSD	.13373	.41106	.25210	.54115	.25602	.24238	.09113	.13226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	964.19	47841.	476.20	469.80	474.1	1871.9	1892.6	965.60
Stddev	2.01	122.	1.41	2.32	3.0	1.3	3.1	1.04
%RSD	.20865	.25476	.29692	.49416	.6295	.06890	.16591	.10733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: lcs 240-176730/2-a Acquired: 4/17/2015 19:33:05 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1859.7	469.88	477.73	993.43	944.64
Stddev	1.4	1.03	1.07	1.35	4.60
%RSD	.07373	.21964	.22422	.13575	.48720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3437.0	2852.3	34522.	6120.6
Stddev	6.9	5.7	156.	10.4
%RSD	.20121	.20132	.45043	.16939

Sample Name: 240-49374-d-18-a Acquired: 4/17/2015 19:36:47 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1442	29840.	15.972	15.273	130.47	1.3146	55302.	.5013
Stddev	.4491	177.	1.834	.348	.26	.0563	159.	.1349
%RSD	39.245	.59472	11.482	2.2807	.19905	4.2836	.28732	26.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.720	168.77	110.68	86270.	2337.6	49.759	36838.	1220.1
Stddev	.173	.18	.38	75.	14.9	.634	426.	.9
%RSD	.45836	.10525	.34374	.08656	.63623	1.2747	1.1575	.07051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5365	964.61	120.26	12.986	2.401	1.1626	34.206	2512.7
Stddev	.0355	11.86	.62	.701	2.928	.5496	.528	2.9
%RSD	1.4015	1.2294	.51812	5.3976	122.0	47.275	1.5447	.11726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49374-d-18-a Acquired: 4/17/2015 19:36:47 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-2.5726	181.29	137.81	2430.6	59.981
Stddev	1.6788	2.52	.86	5.5	2.823
%RSD	65.255	1.3928	.62412	.22494	4.7072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3484.0	3008.0	36669.	6493.6
Stddev	3.4	3.6	60.	31.2
%RSD	.09642	.12105	.16429	.48011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.506%	101.16%	105.16%	104.06%
Range				

Sample Name: SD 240-49374-d-18a@5 Acquired: 4/17/2015 19:40:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48511	6290.5	4.7646	5.4209	27.644	.21044	11693.	.0997
Stddev	.18104	29.7	1.0929	.3034	.052	.07491	17.	.0987
%RSD	37.320	.47243	22.937	5.5965	.18931	35.598	.14355	98.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.5209	35.923	24.634	18293.	569.70	10.538	7911.4	259.14
Stddev	.1909	.691	.107	56.	30.69	.825	38.5	.29
%RSD	2.5387	1.9243	.43275	.30393	5.3874	7.8317	.48642	.11180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34197	226.93	24.220	2.3720	2.576	-.25218	6.6122	521.44
Stddev	.40474	5.04	.470	1.3298	2.544	4.0908	.5225	.61
%RSD	118.35	2.2197	1.9404	56.064	98.77	1622.2	7.9027	.11734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SD 240-49374-d-18a@5 Acquired: 4/17/2015 19:40:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.8108	37.859	31.636	503.54	12.701
Stddev	.7952	.725	.178	2.59	4.736
%RSD	43.912	1.9138	.56143	.51354	37.292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3571.5	2962.3	35745.	6337.6
Stddev	3.3	.8	86.	25.6
%RSD	.09151	.02700	.24124	.40376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.906%	99.620%	102.51%	101.56%
Range				

Sample Name: PDS 240-49374-d-18-a Acquired: 4/17/2015 19:44:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.965	34131.	329.86	3173.4	178.56	26.827	64322.	360.4
Stddev	.032	33.	1.78	6.3	.46	.110	114.	.7
%RSD	.03359	.09638	.53955	.19907	.26021	.41173	.17726	.2036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	201.35	361.80	578.05	88963.	7384.3	558.08	38495.	1224.3
Stddev	.36	1.60	.41	156.	40.2	1.74	102.	3.1
%RSD	.17711	.44242	.07070	.17507	.54468	.31254	.26392	.25583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105.94	52615.	392.09	167.27	153.5	418.72	349.82	2981.3
Stddev	.34	41.	.57	1.06	1.2	.16	.41	.2
%RSD	.32378	.07700	.14506	.63670	.7870	.03838	.11617	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: PDS 240-49374-d-18-a Acquired: 4/17/2015 19:44:42 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	481.32	228.06	674.16	5383.1	565.30
Stddev	4.30	2.24	.12	4.8	5.00
%RSD	.89407	.98256	.01824	.08904	.88388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3461.2	3009.4	36382.	6538.0
Stddev	7.1	4.0	76.	14.3
%RSD	.20499	.13386	.20957	.21896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.883%	101.20%	104.34%	104.77%
Range				

Sample Name: 240-49374-d-18-b ms Acquired: 4/17/2015 19:48:26 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.585	25320.	1501.8	767.91	1496.0	35.130	146270.
Stddev	.344	49.	4.0	.27	.4	.067	199.
%RSD	.94165	.19453	.26615	.03559	.02890	.19173	.13622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.01	398.73	214.02	290.26	68261.	36824.	736.41
Stddev	.18	1.27	.73	.41	29.	51.	1.79
%RSD	.4908	.31738	.33994	.13995	.04282	.13930	.24287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58590.	1438.4	729.56	36700.	448.39	373.66	326.6
Stddev	299.	4.6	2.29	96.	2.24	.62	2.7
%RSD	.50989	.31676	.31376	.26147	.49863	.16504	.8173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-d-18-b ms Acquired: 4/17/2015 19:48:26 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1454.4	1512.3	3482.3	1526.6	507.48	502.64	5366.4
Stddev	1.4	2.8	4.7	7.6	1.14	1.38	5.4
%RSD	.09473	.18508	.13495	.49489	.22368	.27388	.10072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	785.99
Stddev	6.64
%RSD	.84505
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3394.0	2945.4	35672.	6518.3
Stddev	11.9	11.0	110.	24.5
%RSD	.35172	.37375	.30886	.37613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.041%	99.052%	102.30%	104.45%
Range				

Sample Name: 240-49374-d-18-c msd Acquired: 4/17/2015 19:52:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.645	30781.	1840.9	946.02	1893.2	45.057	169270.
Stddev	.012	46.	1.3	1.67	1.5	.213	218.
%RSD	.02653	.15019	.06875	.17661	.07976	.47334	.12876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.38	502.63	271.24	375.41	103920.	47200.	922.12
Stddev	.08	.68	.91	.17	196.	78.	2.48
%RSD	.1754	.13520	.33526	.04396	.18893	.16445	.26923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	114580.	2160.6	901.09	46609.	573.15	455.16	401.5
Stddev	399.	8.6	3.01	99.	.97	3.45	.1
%RSD	.34780	.39715	.33389	.21325	.16903	.75719	.0146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-d-18-c msd Acquired: 4/17/2015 19:52:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1776.7	1876.9	4783.4	1852.8	631.28	617.61	6782.5
Stddev	4.2	6.5	64.8	.7	5.84	1.09	20.3
%RSD	.23616	.34600	1.3549	.03936	.92447	.17645	.30001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	957.69
Stddev	11.32
%RSD	1.1821
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3367.3	2963.3	36070.	6495.8
Stddev	1.2	6.8	65.	51.9
%RSD	.03418	.22835	.18131	.79949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.308%	99.651%	103.45%	104.09%
Range				

Sample Name: 240-49374-b-6-a Acquired: 4/17/2015 19:55:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.67920	60272.	51.229	50.192	521.80	2.0434	175460.
Stddev	.23594	112.	1.564	.974	.92	.0332	1695.
%RSD	34.738	.18599	3.0535	1.9415	.17538	1.6243	.96631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9737	89.261	149.77	348.26	145280.	5735.9	69.676
Stddev	.2307	.589	.40	2.26	358.	38.8	.392
%RSD	23.70	.65931	.26540	.64768	.24627	.67557	.56198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80654.	3587.4	9.3527	2948.6	233.65	58.537	3.122
Stddev	137.	13.7	.3777	10.8	.77	2.158	2.388
%RSD	.17007	.38195	4.0381	.36502	.33085	3.6863	76.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-6-a Acquired: 4/17/2015 19:55:55 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4391	39.394	4295.0	1.3432	234.81	285.07	2545.2
Stddev	2.3493	.329	6.5	2.2887	.63	.68	11.7
%RSD	163.25	.83601	.15216	170.39	.27006	.23705	.46120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	188.47
Stddev	3.62
%RSD	1.9198
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3401.9	3053.3	37297.	6790.7
Stddev	5.3	8.5	54.	39.5
%RSD	.15570	.27865	.14382	.58179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.256%	102.68%	106.96%	108.82%
Range				

Sample Name: 240-49374-b-7-a Acquired: 4/17/2015 20:00:05 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64097	30170.	31.358	89.847	287.69	4.0050	492560.
Stddev	.40839	110.	1.643	.227	1.39	.0620	3925.
%RSD	63.715	.36469	5.2400	.25275	.48461	1.5475	.79694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.022	98.109	52.784	175.61	167590.	4431.7	27.973
Stddev	.128	.732	.626	.60	92.	31.1	1.123
%RSD	12.47	.74570	1.1860	.33897	.05510	.70090	4.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	153910.	5927.4	1.4553	1066.3	167.72	30.403	2.601
Stddev	722.	54.3	.2964	14.1	.32	2.088	1.723
%RSD	.46927	.91577	20.364	1.3196	.19361	6.8681	66.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-7-a Acquired: 4/17/2015 20:00:05 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.9646	35.663	3078.9	5.7465	127.57	233.84	2769.7
Stddev	.8290	1.318	2.6	2.3978	2.06	.45	45.2
%RSD	27.965	3.6963	.08394	41.726	1.6146	.19159	1.6315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	304.03
Stddev	4.73
%RSD	1.5551
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3295.3	3112.7	38243.	6903.0
Stddev	1.0	4.0	66.	23.6
%RSD	.03153	.12840	.17223	.34183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.335%	104.68%	109.67%	110.62%
Range				

Sample Name: 240-49374-b-8-a Acquired: 4/17/2015 20:04:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35756	30984.	35.505	61.231	242.28	1.9794	262240.
Stddev	.16093	67.	2.461	.547	.94	.1002	622.
%RSD	45.008	.21500	6.9316	.89281	.38844	5.0622	.23710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9066	56.887	79.706	104.05	107200.	6314.8	23.713
Stddev	.3298	.168	.311	1.54	199.	38.3	.377
%RSD	36.38	.29611	.39001	1.4756	.18526	.60675	1.5895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102340.	2883.6	2.1392	1027.1	126.66	59.870	5.397
Stddev	189.	11.6	.2905	16.7	.43	.807	.324
%RSD	.18474	.40198	13.578	1.6217	.33872	1.3486	6.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-8-a Acquired: 4/17/2015 20:04:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04221	34.526	1710.7	.07684	132.71	202.06	2913.4
Stddev	2.3664	.503	1.1	2.6948	1.32	.19	17.8
%RSD	5606.3	1.4582	.06620	3506.9	.99761	.09274	.60997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	196.69
Stddev	5.05
%RSD	2.5696
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3359.0	2961.5	36427.	6555.1
Stddev	4.3	7.3	169.	31.1
%RSD	.12849	.24573	.46412	.47517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.082%	99.592%	104.47%	105.04%
Range				

Sample Name: 240-49374-b-9-a Acquired: 4/17/2015 20:08:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64617	12918.	22.291	11.559	77.337	.73761	11531.	.1167
Stddev	.20298	12.	2.751	.101	.283	.02648	6.	.1299
%RSD	31.412	.08922	12.341	.87718	.36538	3.5902	.04828	111.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.006	44.175	28.178	48968.	1051.5	19.089	7089.0	427.74
Stddev	.334	.306	.872	82.	52.1	.848	39.9	2.19
%RSD	1.9613	.69325	3.0963	.16833	4.9508	4.4427	.56307	.51121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58483	378.59	47.235	17.491	2.573	.67110	31.839	1322.4
Stddev	.15051	5.42	.648	.939	.479	2.1938	1.232	1.8
%RSD	25.737	1.4310	1.3719	5.3676	18.62	326.90	3.8700	.13329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49374-b-9-a Acquired: 4/17/2015 20:08:17 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-2.0499	93.059	75.898	2664.3	28.417
Stddev	2.4177	2.890	.436	6.9	7.815
%RSD	117.94	3.1058	.57442	.26082	27.500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3549.4	3029.6	37033.	6496.0
Stddev	4.7	4.7	174.	4.7
%RSD	.13325	.15482	.46952	.07182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.299%	101.88%	106.21%	104.10%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 20:12:13 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1013.9	25410.	527.62	5226.6	1983.9	2021.8	50608.	511.6
Stddev	.9	77.	.98	4.4	.8	1.6	89.	.3
%RSD	.08684	.30226	.18578	.08348	.03888	.08159	.17649	.0615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2014.3	1907.2	2027.2	25246.	50364.	4975.4	50166.	1947.4
Stddev	2.6	1.9	7.0	80.	16.	6.6	166.	3.5
%RSD	.12820	.09928	.34389	.31647	.03225	.13223	.32994	.17738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2077.0	50675.	2017.0	506.50	511.8	515.50	5073.9	5056.1
Stddev	5.3	89.	2.7	1.32	2.0	1.22	10.6	3.6
%RSD	.25540	.17581	.13183	.26007	.3838	.23617	.20900	.07191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 20:12:13 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1002.2	1980.6	2049.5	5145.6	5012.8
Stddev	2.0	4.5	.6	17.2	8.3
%RSD	.19673	.22756	.02840	.33453	.16620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3419.5	2839.3	34636.	6188.2
Stddev	2.0	.8	84.	18.5
%RSD	.05726	.02726	.24143	.29971

Sample Name: CCB Acquired: 4/17/2015 20:16:01 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25286	-4.3830	1.3686	7.1611	.25469	.24910	18.253	-.0889
Stddev	.08471	14.249	1.6799	.6954	.02825	.07477	6.367	.0804
%RSD	33.501	325.09	122.75	9.7106	11.093	30.018	34.882	90.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36322	.19694	3.1030	9.5667	103.51	3.3407	-8.1687	.23808
Stddev	.13651	.39903	.7077	4.1162	26.89	.2715	19.116	.06139
%RSD	37.583	202.61	22.807	43.027	25.977	8.1273	234.01	25.784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.67788	41.598	-.48328	1.6826	3.498	1.3249	.25727	1.5896
Stddev	.39271	9.358	.57228	.1330	3.390	3.0348	.53749	.2837
%RSD	57.932	22.496	118.42	7.9071	96.92	229.05	208.92	17.849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 20:16:01 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.0914	-.93910	.23847	-5.5432	3.4863
Stddev	1.1833	1.3832	.10425	5.0721	2.9134
%RSD	108.43	147.29	43.717	91.501	83.566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3549.5	2907.0	35328.	6193.5
Stddev	5.0	4.0	173.	11.7
%RSD	.14197	.13890	.48990	.18900

Sample Name: 240-49374-b-10-a Acquired: 4/17/2015 20:20:09 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0842	24307.	23.769	30.100	233.87	1.3095	254580.
Stddev	.3777	39.	1.507	.331	.46	.0195	2401.
%RSD	34.841	.15967	6.3382	1.0985	.19478	1.4922	.94330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5512	33.374	58.449	70.037	70873.	3063.2	20.480
Stddev	.0488	.128	.563	1.001	41.	27.3	1.792
%RSD	8.862	.38426	.96329	1.4291	.05841	.89030	8.7485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95480.	1950.3	.91016	1355.3	84.147	20.757	1.146
Stddev	353.	8.2	.32472	10.4	1.241	2.494	.265
%RSD	.36943	.41883	35.677	.76693	1.4746	12.014	23.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-10-a Acquired: 4/17/2015 20:20:09 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4151	33.007	1748.1	-1.3818	177.27	132.30	1948.2
Stddev	1.4702	.531	3.3	.9096	3.40	.38	14.8
%RSD	103.89	1.6102	.18778	65.825	1.9203	.29088	.75993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	202.43
Stddev	2.24
%RSD	1.1066
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3391.1	2971.1	36328.	6535.8
Stddev	8.9	7.0	57.	8.5
%RSD	.26195	.23629	.15813	.12937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.961%	99.915%	104.18%	104.73%
Range				

Sample Name: 240-49374-b-11-a Acquired: 4/17/2015 20:24:12 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32472	22023.	17.243	37.738	216.18	1.0490	433760.
Stddev	.18607	95.	3.044	.214	.41	.0638	3312.
%RSD	57.302	.42912	17.652	.56687	.19099	6.0787	.76363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6946	33.492	97.008	72.695	73037.	3595.2	14.441
Stddev	.0561	.397	1.039	.200	172.	20.6	.437
%RSD	8.077	1.1858	1.0711	.27545	.23602	.57392	3.0284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	156860.	2336.6	8.7618	1115.0	79.417	23.158	1.875
Stddev	968.	.7	.1847	10.5	.310	1.982	2.128
%RSD	.61684	.03145	2.1081	.94432	.39068	8.5592	113.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-11-a Acquired: 4/17/2015 20:24:12 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64632	34.103	1826.5	2.8219	114.77	143.11	1976.8
Stddev	1.4353	1.012	1.0	2.0128	1.70	.51	1.3
%RSD	222.08	2.9673	.05609	71.325	1.4778	.35950	.06729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	234.80
Stddev	2.98
%RSD	1.2710
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3336.5	2879.5	35132.	6355.8
Stddev	3.0	2.9	45.	35.6
%RSD	.09099	.10081	.12868	.55961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.463%	96.834%	100.75%	101.85%
Range				

Sample Name: 240-49374-b-12-a Acquired: 4/17/2015 20:28:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0926	23774.	19.481	42.163	149.29	1.1991	309480.
Stddev	.1721	77.	3.049	.573	.28	.0334	3257.
%RSD	15.750	.32230	15.652	1.3595	.18583	2.7853	1.0525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3356	38.873	68.719	78.243	107250.	3121.0	18.748
Stddev	.2617	.390	.465	.549	372.	21.9	.830
%RSD	77.97	1.0031	.67663	.70194	.34730	.70073	4.4268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87124.	2648.8	2.4392	790.16	108.04	17.287	3.505
Stddev	255.	12.0	.2559	2.41	10.84	1.797	2.124
%RSD	.29280	.45492	10.491	.30508	10.037	10.392	60.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-12-a Acquired: 4/17/2015 20:28:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.7002	32.700	1955.5	-.19060	95.609	137.33	2530.1
Stddev	1.7713	.535	1.3	.34342	4.322	3.03	7.2
%RSD	47.871	1.6354	.06395	180.18	4.5209	2.2071	.28384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	214.13
Stddev	3.57
%RSD	1.6671
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3376.2	2911.4	35462.	6526.8
Stddev	31.1	23.3	115.	29.3
%RSD	.92191	.80052	.32388	.44934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.552%	97.906%	101.70%	104.59%
Range				

Sample Name: 240-49374-b-13-a Acquired: 4/17/2015 20:32:16 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03382	12271.	13.618	13.739	214.36	.59508	7607.2	.5061
Stddev	.39194	43.	1.843	.286	.41	.05944	21.7	.1550
%RSD	1158.7	.34805	13.533	2.0821	.19256	9.9882	.28535	30.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29.845	31.712	24.275	31453.	1455.7	18.805	5747.7	3296.3
Stddev	.435	.547	.528	127.	34.3	1.063	35.3	18.1
%RSD	1.4584	1.7243	2.1746	.40301	2.3549	5.6556	.61400	.54764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31929	283.10	101.71	13.627	.3217	.24049	31.504	967.25
Stddev	.40070	4.18	.64	.071	1.800	.10188	.480	1.45
%RSD	125.49	1.4770	.63245	.52207	559.5	42.365	1.5251	.14977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49374-b-13-a Acquired: 4/17/2015 20:32:16 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.69284	41.925	60.598	2443.1	30.283
Stddev	2.0687	2.637	.265	13.0	1.353
%RSD	298.59	6.2890	.43786	.53166	4.4690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3538.3	3007.8	36348.	6522.3
Stddev	9.7	5.4	139.	15.2
%RSD	.27279	.18007	.38267	.23354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.995%	101.15%	104.24%	104.52%
Range				

Sample Name: 240-49374-b-14-a Acquired: 4/17/2015 20:36:20 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44741	42554.	21.519	63.696	359.61	2.8447	21305.	.4840
Stddev	.29493	192.	.385	.399	.66	.1039	47.	.0723
%RSD	65.919	.45163	1.7882	.62646	.18425	3.6509	.22264	14.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100.44	78.399	48.828	91456.	4983.9	52.743	18023.	1127.4
Stddev	.46	.471	.640	233.	36.9	1.229	162.	1.6
%RSD	.45825	.60065	1.3114	.25475	.73970	2.3294	.90001	.13997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15667	648.49	158.69	43.714	-.2137	.51799	33.413	919.72
Stddev	.08998	4.29	.31	.322	.6959	3.3571	.754	.86
%RSD	57.431	.66193	.19237	.73644	325.7	648.11	2.2552	.09405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49374-b-14-a Acquired: 4/17/2015 20:36:20 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-1.9368	149.97	187.21	2626.7	95.220
Stddev	.4528	1.10	.46	11.0	2.348
%RSD	23.381	.73556	.24599	.41975	2.4656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3542.8	3130.4	37777.	6768.1
Stddev	3.0	6.1	32.	29.7
%RSD	.08586	.19358	.08561	.43936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.120%	105.27%	108.34%	108.45%
Range				

Sample Name: 240-49374-b-15-a Acquired: 4/17/2015 20:40:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.82747	12471.	17.294	15.451	54.361	.80862	55663.	.2940
Stddev	.45579	44.	.621	.149	.191	.05296	121.	.1850
%RSD	55.082	.35570	3.5922	.96150	.35110	6.5496	.21822	62.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.501	41.413	41.752	49627.	1278.7	14.478	32254.	454.05
Stddev	.026	.671	.937	74.	30.9	1.381	163.	1.01
%RSD	.14052	1.6198	2.2448	.14908	2.4185	9.5415	.50550	.22230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.61391	459.31	49.361	24.985	.4501	1.6258	32.957	1524.1
Stddev	.15309	6.93	.773	3.339	1.715	.5841	.546	1.2
%RSD	24.937	1.5081	1.5656	13.365	380.9	35.928	1.6569	.08145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 240-49374-b-15-a Acquired: 4/17/2015 20:40:15 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-2.8665	102.16	78.524	1677.1	52.328
Stddev	.9283	2.94	.354	5.5	.867
%RSD	32.386	2.8806	.45050	.32971	1.6574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3532.4	2992.6	36241.	6417.7
Stddev	1.1	3.3	68.	36.8
%RSD	.03084	.11176	.18645	.57395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.833%	100.64%	103.93%	102.84%
Range				

Sample Name: 240-49374-b-16-a Acquired: 4/17/2015 20:44:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58750	31447.	24.485	31.066	413.45	1.6130	341820.
Stddev	.19895	147.	1.718	.094	.94	.0619	2446.
%RSD	33.863	.46634	7.0146	.30215	.22841	3.8349	.71563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.289	51.947	81.742	68.260	90839.	4232.6	28.144
Stddev	.069	.776	.177	.268	209.	46.1	.677
%RSD	5.322	1.4935	.21601	.39260	.22996	1.0894	2.4038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	88664.	3912.0	2.1571	801.95	112.34	46.109	4.344
Stddev	386.	17.4	.1737	4.08	.49	.465	2.366
%RSD	.43540	.44452	8.0547	.50905	.43761	1.0086	54.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-16-a Acquired: 4/17/2015 20:44:10 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27019	33.401	1714.7	3.1329	160.36	219.96	2212.7
Stddev	2.1176	1.470	.9	.9902	3.79	.34	16.5
%RSD	783.77	4.4000	.04974	31.607	2.3628	.15568	.74701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	228.49
Stddev	5.76
%RSD	2.5187
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3380.1	2944.4	35651.	6458.3
Stddev	5.2	4.6	178.	7.6
%RSD	.15389	.15643	.49850	.11734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.660%	99.018%	102.24%	103.49%
Range				

Sample Name: 240-49374-b-17-a Acquired: 4/17/2015 20:48:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29857	74193.	36.134	56.310	712.62	4.8890	50037.
Stddev	.58263	329.	2.438	.911	1.09	.0705	105.
%RSD	195.14	.44370	6.7458	1.6171	.15297	1.4427	.21018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6155	94.612	120.00	90.888	122260.	5037.4	73.355
Stddev	.2157	.156	.36	.617	87.	26.5	2.070
%RSD	35.05	.16450	.30140	.67940	.07097	.52551	2.8215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37199.	4256.7	-.15248	513.26	222.55	83.113	2.370
Stddev	245.	9.8	.27315	9.64	.24	2.503	3.633
%RSD	.65980	.22993	179.13	1.8784	.10996	3.0111	153.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-17-a Acquired: 4/17/2015 20:48:21 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3156	33.119	963.70	.49352	231.18	274.63	2394.8
Stddev	1.2781	1.037	1.97	1.1456	3.91	.80	3.7
%RSD	97.147	3.1323	.20428	232.13	1.6895	.29049	.15549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	140.82
Stddev	2.97
%RSD	2.1093
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3474.9	3169.8	38389.	6843.8
Stddev	9.1	9.6	114.	24.9
%RSD	.26222	.30353	.29666	.36448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.257%	106.60%	110.10%	109.67%
Range				

Sample Name: 240-49374-b-19-a Acquired: 4/17/2015 20:52:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16995	21331.	23.922	31.416	377.21	1.5543	241820.
Stddev	.14290	89.	.690	.317	.19	.0336	2042.
%RSD	84.080	.41596	2.8836	1.0084	.04970	2.1632	.84460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8582	32.467	77.627	84.029	116960.	2587.8	22.138
Stddev	.0552	.259	.514	.769	254.	42.5	1.490
%RSD	6.428	.79770	.66158	.91513	.21708	1.6410	6.7328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69443.	W 14392.	1.1640	1103.7	95.449	20.969	3.790
Stddev	308.	92.	.5408	4.3	.192	.547	2.200
%RSD	.44297	.63819	46.460	.38624	.20072	2.6073	58.05
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		13500.					
Low Limit		-500000.					

Sample Name: 240-49374-b-19-a Acquired: 4/17/2015 20:52:22 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5424	33.581	1981.5	10.683	111.77	448.58	3129.6
Stddev	2.1103	.654	.2	1.249	1.21	.84	18.5
%RSD	136.82	1.9463	.01232	11.692	1.0790	.18623	.59253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	268.54
Stddev	6.03
%RSD	2.2447
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.1	2935.1	35977.	6388.5
Stddev	4.0	4.3	181.	19.7
%RSD	.11852	.14669	.50343	.30911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.482%	98.704%	103.18%	102.37%
Range				

Sample Name: 240-49374-b-20-a Acquired: 4/17/2015 20:56:33 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7357	37924.	64.793	243.68	215.81	3.1122
Stddev	.4949	12.	1.625	1.43	.34	.0932
%RSD	28.513	.03212	2.5073	.58705	.15770	2.9942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 906220.	1.574	49.810	80.961	71.877	136860.
Stddev	4327.	.282	.656	.380	.315	287.
%RSD	.47744	17.92	1.3161	.46980	.43828	.20960
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	800000.					
Low Limit	-500000.					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18574.	-26.985	154060.	4276.1	2.7138	1150.7
Stddev	64.	.274	380.	19.6	.1041	9.7
%RSD	.34559	1.0147	.24646	.45839	3.8368	.84474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-49374-b-20-a Acquired: 4/17/2015 20:56:33 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129.05	21.713	3.937	-2.8110	33.805	679.88
Stddev	.84	2.760	2.175	.6942	.203	.99
%RSD	.64872	12.713	55.24	24.695	.60008	.14533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	5.7908	131.45	160.58	3422.8	599.14
Stddev	.8004	1.72	.25	25.9	1.15
%RSD	13.821	1.3123	.15636	.75720	.19244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3194.1	3043.4	37574.	6836.6
Stddev	14.9	5.5	44.	17.2
%RSD	.46626	.18221	.11728	.25170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.561%	102.35%	107.76%	109.55%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 21:00:42 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1022.1	25375.	527.30	5227.7	1989.4	2010.4	50800.	510.3
Stddev	.9	85.	3.50	6.8	2.8	2.8	81.	.9
%RSD	.08318	.33502	.66348	.12964	.13888	.14075	.15959	.1752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2011.4	1925.5	2047.3	25348.	50216.	4958.8	49768.	1969.4
Stddev	3.1	1.6	2.3	60.	114.	6.2	88.	4.4
%RSD	.15228	.08166	.11278	.23594	.22664	.12480	.17763	.22585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2077.9	50366.	2013.1	503.34	507.1	517.02	5072.5	5066.4
Stddev	1.2	44.	4.2	.65	2.3	2.03	11.7	41.8
%RSD	.05636	.08741	.20840	.12834	.4503	.39193	.23115	.82456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 21:00:42 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1007.5	1981.4	2037.9	5135.9	4997.8
Stddev	1.6	6.6	5.6	24.8	16.6
%RSD	.16275	.33388	.27694	.48372	.33294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3457.3	2867.3	34608.	6198.2
Stddev	6.9	1.6	91.	12.1
%RSD	.20046	.05529	.26426	.19499

Sample Name: CCB Acquired: 4/17/2015 21:04:31 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04426	-13.885	.80056	6.7076	.33496	.31950	27.846	-.1368
Stddev	.43143	18.674	1.6527	.3816	.07423	.04493	5.557	.2631
%RSD	974.88	134.49	206.45	5.6893	22.161	14.063	19.955	192.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07971	.44328	1.7371	10.262	99.309	.98946	1.6388	1.7454
Stddev	.27460	.37670	.7362	1.956	35.094	1.0328	6.1932	.5096
%RSD	344.50	84.981	42.379	19.064	35.338	104.38	377.90	29.196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62925	32.091	-.36844	.49045	.3149	.22931	.56515	1.4719
Stddev	.17065	3.842	.50585	.90389	2.150	.58766	.80031	.1933
%RSD	27.120	11.973	137.30	184.30	682.8	256.28	141.61	13.132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 21:04:31 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.85275	2.2223	.09308	-1.9319	2.1301
Stddev	.24331	3.4446	.21572	2.1082	2.0622
%RSD	28.532	155.00	231.75	109.13	96.812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3598.6	2944.6	35049.	6294.6
Stddev	5.2	1.7	60.	6.3
%RSD	.14528	.05775	.16992	.09996

Sample Name: 240-49374-b-21-a Acquired: 4/17/2015 21:08:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11307	12108.	37.089	60.566	180.61	.74184
Stddev	.34588	45.	.759	.716	.41	.04183
%RSD	305.90	.37267	2.0469	1.1817	.22869	5.6383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1311200.	1.758	26.105	50.071	110.15	79855.
Stddev	14673.	.236	.167	.388	.36	129.
%RSD	1.1191	13.42	.64160	.77489	.33100	.16139
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	800000.					
Low Limit	-500000.					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4762.5	-53.150	F 760120.	7602.0	7.8794	1832.2
Stddev	45.9	1.600	1554.	23.3	.3682	6.6
%RSD	.96452	3.0104	.20446	.30669	4.6724	.35996
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			500000.			
Low Limit			-500000.			

Sample Name: 240-49374-b-21-a Acquired: 4/17/2015 21:08:39 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63.559	68.764	4.609	1.1677	32.534	518.03
Stddev	.424	2.751	3.528	3.8230	.530	.82
%RSD	.66779	4.0008	76.55	327.39	1.6294	.15764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	8.3471	102.85	488.56	3768.4	530.56
Stddev	1.3419	1.18	2.82	8.3	4.41
%RSD	16.076	1.1505	.57735	.21948	.83165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3023.8	2630.4	32776.	6004.2
Stddev	9.5	3.2	75.	11.6
%RSD	.31452	.11987	.22864	.19353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.893%	88.456%	93.996%	96.214%
Range				

Sample Name: 240-49374-b-22-a Acquired: 4/17/2015 21:12:49 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07341	17726.	18.718	23.811	323.53	1.2433	194970.
Stddev	.27051	24.	2.084	.542	.43	.0280	159.
%RSD	368.48	.13633	11.136	2.2748	.13194	2.2498	.08161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.242	41.035	58.684	46.146	63811.	2957.2	11.856
Stddev	.043	.415	.456	.877	9.	55.7	1.552
%RSD	3.481	1.0119	.77704	1.8998	.01459	1.8849	13.088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49681.	3864.5	1.0570	493.32	111.69	26.204	1.955
Stddev	136.	11.4	.1051	2.36	1.47	1.799	1.133
%RSD	.27345	.29447	9.9484	.47811	1.3173	6.8670	57.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-22-a Acquired: 4/17/2015 21:12:49 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4534	32.037	1015.6	1.7876	112.04	129.45	1820.7
Stddev	2.4676	.292	2.3	.9390	2.27	.19	10.5
%RSD	169.78	.91140	.22207	52.526	2.0230	.14987	.57933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	154.41
Stddev	4.06
%RSD	2.6262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3471.5	2955.6	35728.	6494.3
Stddev	3.8	6.0	80.	32.2
%RSD	.10855	.20307	.22440	.49569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.164%	99.393%	102.46%	104.07%
Range				

Sample Name: 240-49374-b-23-a Acquired: 4/17/2015 21:17:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.56793	52590.	40.138	148.16	357.28	3.0840	604850.
Stddev	.28700	45.	2.238	.83	.38	.0514	3449.
%RSD	50.533	.08506	5.5747	.56017	.10758	1.6653	.57027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.397	56.689	135.54	108.05	113040.	14643.	17.353
Stddev	.056	.574	.75	.60	125.	52.	.654
%RSD	4.019	1.0128	.55129	.55127	.11076	.35402	3.7697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	285640.	4441.5	12.094	1269.3	142.01	74.207	1.783
Stddev	596.	14.1	.140	8.8	.82	1.827	.200
%RSD	.20881	.31858	1.1610	.69386	.57874	2.4623	11.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-23-a Acquired: 4/17/2015 21:17:01 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0672	37.719	1094.1	4.5829	154.56	303.25	3694.0
Stddev	1.1392	1.354	.6	2.5763	2.38	.56	66.2
%RSD	106.74	3.5902	.05924	56.216	1.5414	.18500	1.7924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	413.20
Stddev	4.00
%RSD	.96718
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3243.9	2933.8	36205.	6568.7
Stddev	5.0	10.1	159.	20.7
%RSD	.15415	.34470	.43806	.31464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.926%	98.660%	103.83%	105.26%
Range				

Sample Name: 240-49374-b-24-a Acquired: 4/17/2015 21:21:11 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28895	30238.	79.719	25.613	931.95	2.0526	39295.
Stddev	.08472	100.	1.325	.193	.55	.0357	78.
%RSD	29.322	.33001	1.6628	.75436	.05926	1.7384	.19798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.919	89.845	87.482	73.754	127580.	3667.2	52.845
Stddev	.076	.390	.341	.114	450.	43.1	1.983
%RSD	2.619	.43389	.39002	.15403	.35233	1.1759	3.7525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27790.	F 15786.	6.8752	1024.5	474.39	42.070	2.868
Stddev	134.	76.	.3236	7.1	1.09	2.289	1.098
%RSD	.48372	.48219	4.7065	.69024	.22970	5.4419	38.31
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		15000.					
Low Limit		-500000.					

Sample Name: 240-49374-b-24-a Acquired: 4/17/2015 21:21:11 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.3716	33.515	2598.8	11.205	268.32	164.95	2659.0
Stddev	2.1607	.440	4.0	.387	3.85	.12	6.7
%RSD	49.425	1.3119	.15576	3.4511	1.4332	.07307	.25235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	86.015
Stddev	2.364
%RSD	2.7478
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3525.7	3112.2	37346.	6652.4
Stddev	2.8	5.6	92.	25.9
%RSD	.08024	.17992	.24724	.38917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.649%	104.66%	107.10%	106.60%
Range				

Sample Name: 240-49374-b-25-a Acquired: 4/17/2015 21:25:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16621	34397.	24.685	34.282	550.45	1.7436	319250.
Stddev	.30470	58.	.503	.210	1.32	.0715	1703.
%RSD	183.32	.16852	2.0365	.61371	.23914	4.1032	.53330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.138	107.18	203.28	204.59	169360.	3051.0	26.606
Stddev	.189	.68	.89	.97	362.	15.0	1.338
%RSD	16.65	.63698	.43627	.47492	.21383	.49195	5.0305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2175
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	145630.	7851.4	3.2616	1401.6	458.26	32.039	1.013
Stddev	231.	37.1	.1082	3.0	.61	2.632	1.456
%RSD	.15855	.47304	3.3171	.21396	.13334	8.2144	143.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 240-49374-b-25-a Acquired: 4/17/2015 21:25:14 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Se1960	Sn1899	Ti3372	Tl1908	V_2908	Zn2062	Si2516
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(In2306)	(Y_3710)	(In2306)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.87709	33.902	3312.0	5.9024	136.61	255.50	2729.1
Stddev	1.3661	.408	4.4	.2675	4.46	.90	56.8
%RSD	155.75	1.2048	.13332	4.5321	3.2650	.35066	2.0799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr3464
IS Ref	(Y_3710)
Units	ppb
Avg	268.07
Stddev	4.15
%RSD	1.5464
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3354.7	2916.5	35562.	6400.1
Stddev	5.7	4.0	84.	5.0
%RSD	.17097	.13616	.23642	.07790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.962%	98.079%	101.99%	102.56%
Range				

Sample Name: 240-49316-g-1-h Acquired: 4/17/2015 21:29:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18004	69.910	11.276	182.31	381.92	-.31661
Stddev	.35660	17.176	1.023	.61	.12	.04901
%RSD	198.07	24.569	9.0685	.33370	.03264	15.480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W 746360.	.3044	5.1168	5.9483	29.286	161.15
Stddev	4074.	.1916	.2346	.2605	.698	10.21
%RSD	.54580	62.95	4.5857	4.3786	2.3840	6.3335
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	720000.					
Low Limit	-500000.					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11204.	18.132	11110.	827.96	10.341	F 1233900.
Stddev	13.	.259	22.	1.57	.391	12105.
%RSD	.11695	1.4309	.19825	.19005	3.7825	.98098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49316-g-1-h Acquired: 4/17/2015 21:29:25 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.214	10.989	7.322	8.3301	2.0210	-3.9825
Stddev	.314	.746	2.275	.1323	1.1407	.0655
%RSD	.86811	6.7902	31.07	1.5881	56.443	1.6458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.86621	2.2133	48.971	4214.7	F 120140.
Stddev	1.8813	2.1819	.129	21.8	219.
%RSD	217.19	98.580	.26412	.51764	.18196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					50000.
Low Limit					-500000.

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.2	2669.7	32800.	6053.9
Stddev	2.2	4.3	39.	10.1
%RSD	.07019	.15940	.11972	.16751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.686%	89.780%	94.067%	97.011%
Range				

Sample Name: 190-7021-a-2-f Acquired: 4/17/2015 21:33:41 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15447	44092.	14.555	1843.1	259.01	.45147
Stddev	.13736	116.	.832	3.0	.34	.06496
%RSD	88.922	.26316	5.7133	.16106	.12993	14.389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51116.	.7626	53.443	12.763	1211.4	75163.
Stddev	67.	.1544	.555	.120	3.9	87.
%RSD	.13171	20.25	1.0382	.94377	.32271	.11596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2001.6	7.9288	19378.	423.83	322.53	F 1109200.
Stddev	47.3	.3181	92.	1.30	.62	6480.
%RSD	2.3631	4.0119	.47400	.30781	.19134	.58420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 190-7021-a-2-f Acquired: 4/17/2015 21:33:41 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73.052	97.860	5.645	8.0929	26.189	26.204
Stddev	.243	1.377	2.226	.3224	.233	.210
%RSD	.33303	1.4071	39.44	3.9832	.88833	.80192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-3.5557	4.6112	1588.4	6014.5	746.91
Stddev	1.7464	1.5596	2.6	12.3	3.19
%RSD	49.115	33.822	.16456	.20414	.42755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3256.9	2800.6	33539.	6282.5
Stddev	4.5	1.7	85.	27.9
%RSD	.13914	.06191	.25207	.44447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.282%	94.180%	96.186%	100.67%
Range				

Sample Name: 240-49161-a-1-e Acquired: 4/17/2015 21:37:40 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36441	-13.555	9.0093	345.56	118.34	-.20494
Stddev	.65118	5.935	1.2444	1.54	.12	.03642
%RSD	178.70	43.783	13.812	.44513	.10329	17.771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	443320.	.2823	-.56161	412.57	1.0391	21.368
Stddev	2469.	.0694	.51268	1.67	.5167	5.123
%RSD	.55689	24.59	91.288	.40410	49.730	23.974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3893.1	-4.3691	90820.	.91417	337.03	F 1070500.
Stddev	54.7	.9661	97.	.02615	2.98	15331.
%RSD	1.4051	22.112	.10629	2.8606	.88559	1.4322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49161-a-1-e Acquired: 4/17/2015 21:37:40 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2378	1.6973	5.489	9.4070	2.1288	-.32344
Stddev	.0930	1.2611	1.937	2.4208	.9312	.09070
%RSD	4.1548	74.299	35.29	25.734	43.744	28.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-2.3174	133.68	1.0610	23227.	403.80
Stddev	1.3508	2.05	.0497	146.	3.77
%RSD	58.290	1.5347	4.6852	.62743	.93265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3175.4	2721.1	32712.	6133.1
Stddev	7.0	5.8	30.	18.1
%RSD	.22075	.21420	.09189	.29570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.047%	91.507%	93.814%	98.279%
Range				

Sample Name: 240-49222-a-2-c Acquired: 4/17/2015 21:41:57 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54468	312.79	5.1452	72.242	124.41	.09810
Stddev	.55344	20.46	.2394	.366	.61	.02310
%RSD	101.61	6.5406	4.6536	.50617	.49227	23.549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9058.2	21.88	27.567	11.443	2597.7	9541.9
Stddev	13.9	.13	.395	.210	5.0	20.6
%RSD	.15363	.6088	1.4332	1.8329	.19404	.21573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1052.8	4.6036	1799.7	155.76	.25637	F 1184400.
Stddev	20.1	.7877	7.8	.57	.20341	11765.
%RSD	1.9058	17.111	.43352	.36283	79.342	.99334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49222-a-2-c Acquired: 4/17/2015 21:41:57 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2789.1	69.469	1.135	7.4056	2.3839	5.0808
Stddev	7.1	.986	.621	3.4300	.2994	.1071
%RSD	.25333	1.4198	54.73	46.316	12.561	2.1071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-2.5431	.05698	2132.9	2309.4	30.496
Stddev	1.0801	1.6588	4.3	5.4	6.329
%RSD	42.470	2911.3	.20167	.23319	20.754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3312.2	2830.9	33501.	6227.4
Stddev	3.1	5.1	77.	43.3
%RSD	.09377	.17953	.23097	.69492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.799%	95.200%	96.076%	99.791%
Range				

Sample Name: 240-49222-a-3-e Acquired: 4/17/2015 21:46:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.77319	39.282	277.71	F 111680.	2.2352	-.02027
Stddev	.42814	8.346	1.32	481.	.0781	.06039
%RSD	55.373	21.248	.47575	.43074	3.4947	297.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20000.		
Low Limit				-500000.		

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1850.6	3.241	3.7230	7.4785	705.81	346.52
Stddev	5.1	.065	.1606	.2132	1.07	2.12
%RSD	.27602	1.998	4.3141	2.8506	.15135	.61217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	369870.	19.306	400.28	16.787	1646.5	F 514090.
Stddev	1116.	.186	14.21	.051	14.9	8561.
%RSD	.30161	.96527	3.5502	.30434	.90287	1.6652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49222-a-3-e Acquired: 4/17/2015 21:46:03 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.447	363.14	-4.514	455.02	90.602	-.19504
Stddev	.148	2.03	4.303	4.29	.877	.16454
%RSD	.72150	.55882	95.32	.94364	.96805	84.363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-340.41	1.9633	410.19	5412.9	7.8405
Stddev	3.07	.4933	2.77	20.4	2.1023
%RSD	.90104	25.129	.67624	.37703	26.813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3595.0	2719.4	33726.	6295.6
Stddev	.2	2.4	53.	41.0
%RSD	.00625	.08754	.15674	.65179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.550%	91.450%	96.720%	100.88%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 21:50:09 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1020.7	25305.	523.53	5358.0	2001.7	2017.3	50484.	511.4
Stddev	1.1	50.	2.24	17.0	2.6	3.9	51.	.8
%RSD	.11043	.19654	.42868	.31792	.13019	.19197	.10197	.1505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1994.5	1955.3	2049.7	24958.	50189.	4940.6	49787.	1942.3
Stddev	2.3	3.3	7.3	62.	46.	5.3	142.	5.8
%RSD	.11584	.17099	.35757	.24826	.09151	.10803	.28450	.30110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2049.3	50001.	1993.8	497.37	511.0	519.42	5090.6	5070.9
Stddev	2.6	19.	2.4	.42	3.8	5.14	4.6	54.0
%RSD	.12810	.03810	.11887	.08471	.7440	.98980	.09100	1.0649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 21:50:09 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1019.0	2013.8	2011.9	5179.3	5051.1
Stddev	3.6	5.0	1.4	23.1	21.9
%RSD	.35009	.25028	.07010	.44623	.43399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3455.9	2860.1	34874.	6212.8
Stddev	10.0	9.4	127.	13.6
%RSD	.28952	.32817	.36439	.21820

Sample Name: CCB Acquired: 4/17/2015 21:53:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.50016	-5.6143	.59387	71.779	.19495	.22400	17.652	.0373
Stddev	.04723	14.320	.94401	6.031	.02769	.06689	2.764	.0621
%RSD	9.4422	255.07	158.96	8.4021	14.206	29.862	15.657	166.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06458	.65744	1.1307	6.6640	296.08	2.3653	-2.7681	.16139
Stddev	.14748	.16775	.3756	1.4274	17.74	1.6336	46.519	.04965
%RSD	228.35	25.515	33.218	21.420	5.9903	69.069	1680.5	30.766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60890	306.50	.25787	-.09849	.3302	1.3570	-.38317	1.1585
Stddev	.15193	13.55	.51397	.66464	2.166	.1787	.97598	.1625
%RSD	24.952	4.4205	199.31	674.82	655.9	13.172	254.71	14.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 21:53:58 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.69305	-3.0154	-.01691	7.9372	-6.8052
Stddev	.63607	4.1731	.07016	1.8872	6.4237
%RSD	91.778	138.39	414.89	23.777	94.394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3582.3	2960.2	35278.	6210.5
Stddev	2.9	4.9	48.	15.3
%RSD	.07983	.16628	.13467	.24710

Sample Name: 240-49222-a-6-e Acquired: 4/17/2015 21:58:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13275	-17.832	7.7780	513.55	356.11	-.44564
Stddev	.32962	18.340	3.6578	3.29	.16	.04998
%RSD	248.30	102.85	47.027	.64124	.04464	11.216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	699480.	.3532	6.0832	2.2363	2.5175	267.96
Stddev	4433.	.0950	.4819	.8014	.2757	1.32
%RSD	.63372	26.89	7.9213	35.836	10.949	.49219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6308.1	-8.7792	54831.	8955.6	13.950	F 1274900.
Stddev	73.8	1.5697	303.	13.2	.277	12712.
%RSD	1.1704	17.880	.55210	.14723	1.9891	.99706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49222-a-6-e Acquired: 4/17/2015 21:58:06 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73.491	3.9165	2.776	8.6348	2.3468	-1.2899
Stddev	.783	1.1023	2.296	3.5566	.4068	.0475
%RSD	1.0657	28.145	82.73	41.189	17.336	3.6802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.3517	1.8408	456.72	28594.	9732.9
Stddev	.8494	2.2816	3.10	783.	44.5
%RSD	36.117	123.95	.67774	2.7373	.45737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3094.5	2671.0	32362.	5993.5
Stddev	6.7	1.2	114.	2.9
%RSD	.21773	.04444	.35073	.04759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.831%	89.823%	92.808%	96.043%
Range				

Sample Name: 190-7049-a-1-b Acquired: 4/17/2015 22:02:29 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54648	13.607	7.0298	352.51	98.883	-.42599
Stddev	.47735	11.638	.8360	1.24	.118	.04805
%RSD	87.350	85.528	11.893	.35238	.11894	11.280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	619210.	.1786	2.7970	2.2003	.62895	174.09
Stddev	964.	.1859	.1380	.1482	1.1327	1.18
%RSD	.15576	104.1	4.9335	6.7359	180.10	.68051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2818.0	-31.270	19362.	405.06	1.3410	F 1142200.
Stddev	25.7	1.311	57.	1.12	.0776	7630.
%RSD	.91081	4.1938	.29313	.27632	5.7883	.66796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 190-7049-a-1-b Acquired: 4/17/2015 22:02:29 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.2936	3.7167	1.088	8.9160	2.1829	-.46416
Stddev	.7129	.8515	1.689	3.5850	.4558	.17351
%RSD	7.6712	22.910	155.2	40.209	20.882	37.381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-3.0563	-1.5379	475.50	1458.9	382.26
Stddev	1.7769	2.3536	1.31	25.8	5.50
%RSD	58.139	153.04	.27644	1.7688	1.4389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3149.1	2717.0	32790.	6155.6
Stddev	3.1	3.5	30.	17.0
%RSD	.09943	.12981	.09116	.27587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.327%	91.371%	94.036%	98.641%
Range				

Sample Name: 240-49264-m-1-h Acquired: 4/17/2015 22:06:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04795	-.04824	10.359	366.86	728.89	-.18205
Stddev	.37759	13.742	3.434	2.19	1.04	.14022
%RSD	787.54	28483.	33.153	.59678	.14235	77.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599
IS Ref	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	449740.	1.838	46.264	2.6414	9.3951	1884.5
Stddev	512.	.040	.700	.2489	.3323	5.8
%RSD	.11375	2.189	1.5138	9.4216	3.5366	.30720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9033.5	-19.620	18766.	4454.6	2.0407	F 1168700.
Stddev	64.4	.963	131.	11.2	.0239	6458.
%RSD	.71306	4.9075	.69858	.25070	1.1696	.55255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						500000.
Low Limit						-500000.

Sample Name: 240-49264-m-1-h Acquired: 4/17/2015 22:06:46 Type: Unk
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	115.18	5.8306	8.777	5.5025	10.630	-.17539
Stddev	1.55	1.7543	2.643	1.4435	.390	.08149
%RSD	1.3483	30.088	30.11	26.234	3.6664	46.461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	.80372	-2.2966	301.94	5504.8	650.74
Stddev	1.7131	.8297	1.95	33.4	3.84
%RSD	213.15	36.128	.64700	.60678	.58960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3170.5	2738.2	33090.	6198.9
Stddev	5.6	4.5	90.	33.6
%RSD	.17634	.16451	.27114	.54185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.912%	92.083%	94.899%	99.334%
Range				

Sample Name: CCV-1936246 Acquired: 4/17/2015 22:11:07 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1023.4	25219.	520.37	5238.5	1998.9	2006.7	50482.	509.7
Stddev	1.7	36.	4.50	2.4	2.0	4.1	42.	.2
%RSD	.16270	.14083	.86447	.04532	.09926	.20242	.08386	.0452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1982.5	1968.0	2041.2	24868.	49932.	4914.3	49751.	1942.7
Stddev	2.1	3.0	1.5	27.	114.	7.8	209.	5.7
%RSD	.10815	.15114	.07158	.10656	.22731	.15938	.42011	.29206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2032.3	49973.	1981.3	496.76	509.8	518.24	5115.6	5076.2
Stddev	.7	133.	3.2	2.03	3.2	5.98	6.3	59.9
%RSD	.03509	.26551	.16347	.40785	.6327	1.1547	.12403	1.1793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-1936246 Acquired: 4/17/2015 22:11:07 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	1022.8	2013.6	2011.5	5126.8	5044.3
Stddev	1.5	3.3	2.4	20.8	8.8
%RSD	.14373	.16440	.11839	.40489	.17378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3451.5	2862.6	34626.	6153.2
Stddev	1.6	2.4	101.	28.3
%RSD	.04561	.08287	.29310	.46069

Sample Name: CCB Acquired: 4/17/2015 22:14:56 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Ag3280	Al3082	As1890	B_1826	Ba4554	Be3130	Ca3179	Cd2288
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34965	-2.4675	.23477	25.622	.10283	.24854	33.169	-.1920
Stddev	.45053	11.871	.92438	1.414	.18466	.11565	1.783	.0594
%RSD	128.85	481.11	393.74	5.5177	179.58	46.531	5.3740	30.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790	Mn2576
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07111	.06452	1.5654	5.0961	174.23	2.5900	-10.727	.29810
Stddev	.07286	.13173	.9016	1.4973	6.33	1.2117	6.918	.02533
%RSD	102.45	204.18	57.597	29.381	3.6310	46.783	64.498	8.4960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2175	Se1960	Sn1899	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(In2306)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46984	348.12	-.15648	.88507	2.426	1.7188	.00815	1.1284
Stddev	.08935	15.91	.89999	1.1083	1.722	2.7895	.48952	.0916
%RSD	19.018	4.5700	575.16	125.22	70.98	162.30	6006.0	8.1198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 4/17/2015 22:14:56 Type: QC
Method: Standard Method + IEC Checks(v733) Mode: CONC Corr. Factor: 1.000000
User: Roger Method: 6010B/6010C Method: 200.7 :
Comment:

Elem	Tl1908	V_2908	Zn2062	Si2516	Sr3464
IS Ref	(In2306)	(Y_3710)	(In2306)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb
Avg	-.72479	1.0778	.19443	9.0766	-1.4951
Stddev	.60362	1.9680	.12755	6.3797	6.4536
%RSD	83.281	182.60	65.603	70.288	431.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3586.0	2951.0	35360.	6226.0
Stddev	2.7	1.3	103.	14.2
%RSD	.07545	.04302	.29142	.22830

MTMSCCBDILH20-191 EPA Tune Solution Spex CL11-62YPY

TestAmerica ICP/MS Data Review Checklist

Run Date: 4/14/15 Analyst: AS Instrument: I10

Review Items	Yes	No	N/A	2nd Level
A. Tune/Daily performance				
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels? Correlation coefficient > 0.995?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (*ICV*: = 90 – 110%) (*CCV*: 90 – 110%, 200.8 = 85 -115%)	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%) or project limits?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Were the internal standards within acceptance criteria for all results reported?	✓			✓
4. Sample analyses done within holding time?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformance's documented appropriately?	✓			✓
2. Current IDL/LR data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

Level I Analyst: Anjali Sharma Date: 4/15/15 Time: 9:04 – 17:00

Level I Analyst: _____ Date: _____ Time: _____

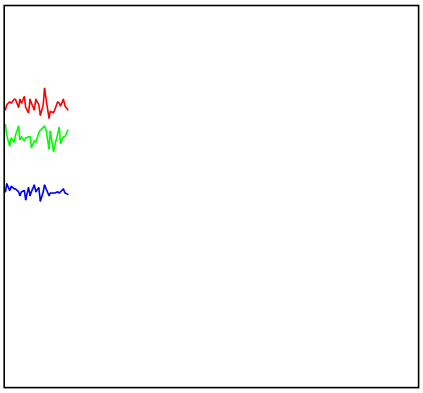
Level II Reviewer: [signature] Date: 4/15/15 Time: 9:04-17:00

Level II Reviewer: _____ Date: _____ Time: _____

Comments: _____

Current Signal

[NoGas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	3645	3708.8	2.19
89	10000	6738	6571.4	2.84
205	10000	5044	5130.3	2.03
156/140	5	1.424 %	1.608 %	13.62
70/140	5	2.474 %	2.894 %	8.87
115	500	192	241.1	19.50
63	5000	1881	1880.2	2.79
60	1000	506	497.8	9.90
Integration Time [sec]		0.10		

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

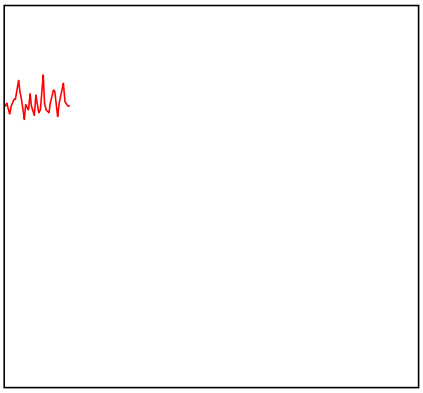
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	15.01	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	6.03E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	2000	1479	1497.7	3.67
51	100	77	85.1	10.72
52	500	242	226.1	9.83
51/59	10	5.208 %	5.682 %	9.92
52/59	20	16.368 %	15.116 %	10.29
7	50	18	14.7	27.91
89	2000	1469	1569.4	3.81
205	5000	2912	2744.4	3.36
6	20	2	1.7	71.23
Integration Time [sec]			0.10	

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	-2.0	V
Extract 2	-185.0	V	Cell Entrance	-50	V	Plate Bias	-70	V
Omega Bias	-85	V	Cell Exit	-70	V			

Cell Parameters

Use Gas	true		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	4.0	mL/min	OctP Bias	-20.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	14.99	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	6.03E+2	kPa			

US EPA Tune Check Sample Report

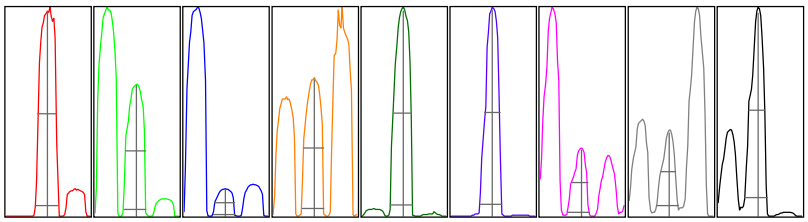
Batch Folder D:\Analytical Runs\I10041415A.b
Report Comment
Instrument Name I10 JP12452145

[NoGas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	52349	0.82	5.00	
24	238406	0.68	5.00	
25	30690	0.79	5.00	
26	36091	0.51	5.00	
59	232099	0.25	5.00	
115	325807	0.35	5.00	
206	89187	0.51	5.00	
207	80651	0.37	5.00	
208	188466	0.34	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	52337	52607	51855	52030	52918
24	237211	238486	236458	239359	240518
25	30361	30826	30668	30593	31001
26	36054	36174	35793	36152	36282
59	232984	231607	231522	232251	232130
115	324519	324660	326357	326464	327035
206	88950	88639	89075	89786	89483
207	80877	80571	80401	80361	81044
208	188179	188319	187620	189230	188984

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
9	8167	9.00	8.9 - 9.1		0.791	0.850	
24	37583	24.00	23.9 - 24.1		0.791	0.850	
25	4910	25.00	24.9 - 25.1		0.785	0.850	
26	5698	26.00	25.9 - 26.1		0.790	0.850	
59	37481	59.00	58.9 - 59.1		0.792	0.850	
115	59976	115.00	114.9 - 115.1		0.772	0.850	
206	16526	206.00	205.9 - 206.1		0.770	0.850	
207	14587	206.95	206.9 - 207.1		0.752	0.850	
208	35688	207.95	207.9 - 208.1		0.770	0.850	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 235 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

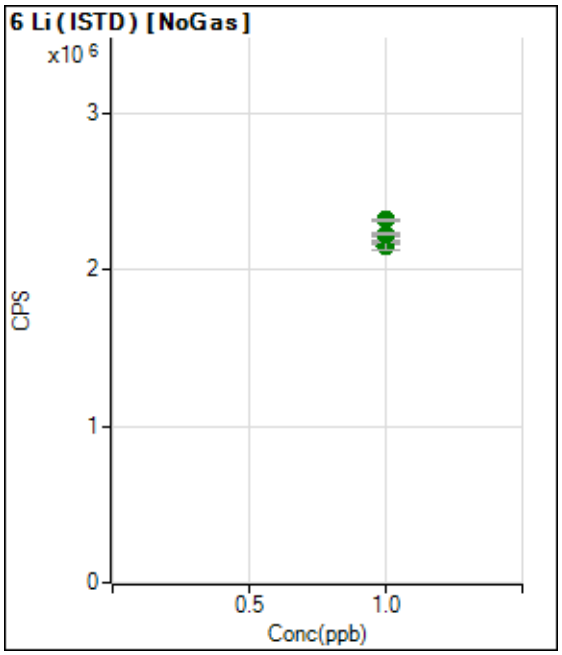
US EPA Tune Check Sample Report

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
ParameterName	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

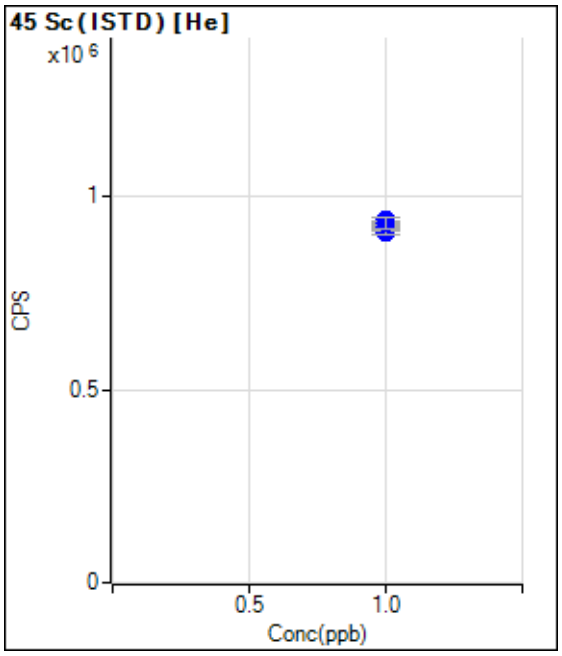
Calibration for 061SMPL.d

Batch Folder: D:\Analytical Runs\I10041415A.b\
Analysis File: I10041415A.batch.bin
DA Date-Time: 4/14/2015 1:07:55 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

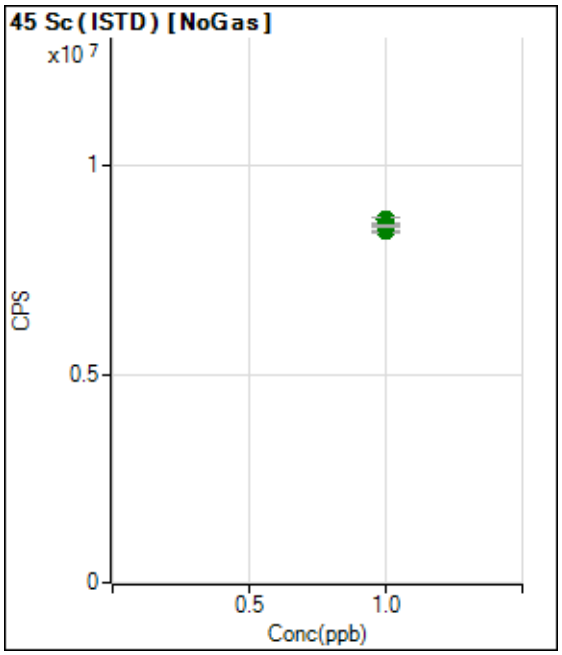
Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	ICIS	4/14/2015 9:08:20 AM
2	003CALS.d	STD1-1906323	4/14/2015 9:12:13 AM
3	004CALS.d	STD2-1904110	4/14/2015 9:16:06 AM
4	005CALS.d	STD3-1906333	4/14/2015 9:19:52 AM
5	006CALS.d	STD4-1906536	4/14/2015 9:23:40 AM



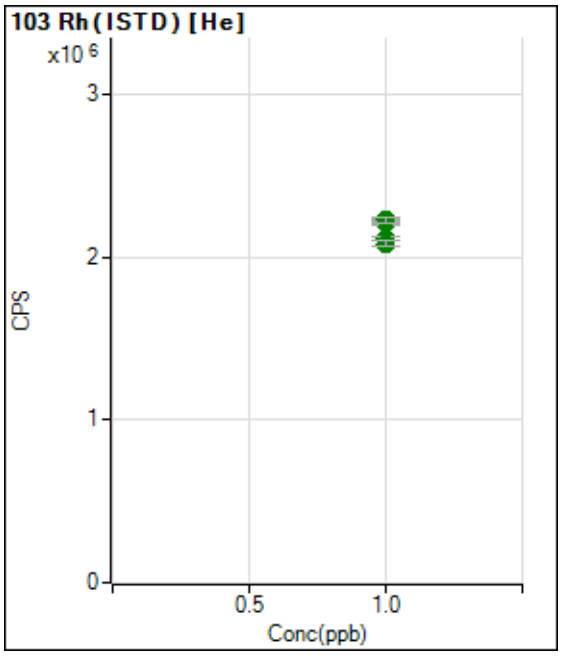
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2317134.87		A	0.3
2	☐	1.000		2217969.26		A	0.9
3	☐	1.000		2172544.34		A	0.9
4	☐	1.000		2154275.27		A	2.2
5	☐	1.000		2228435.07		A	0.9



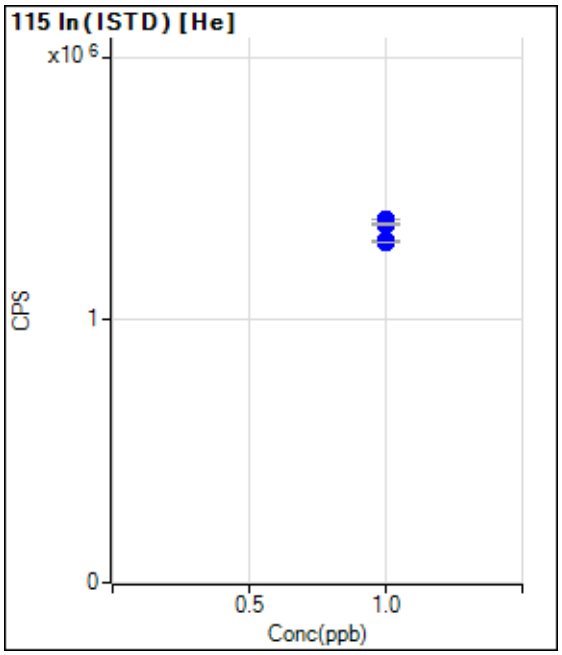
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		926381.03		P	0.4
2	☐	1.000		940743.19		P	1.8
3	☐	1.000		923961.60		P	2.9
4	☐	1.000		907971.91		P	1.3
5	☐	1.000		932903.45		P	3.1



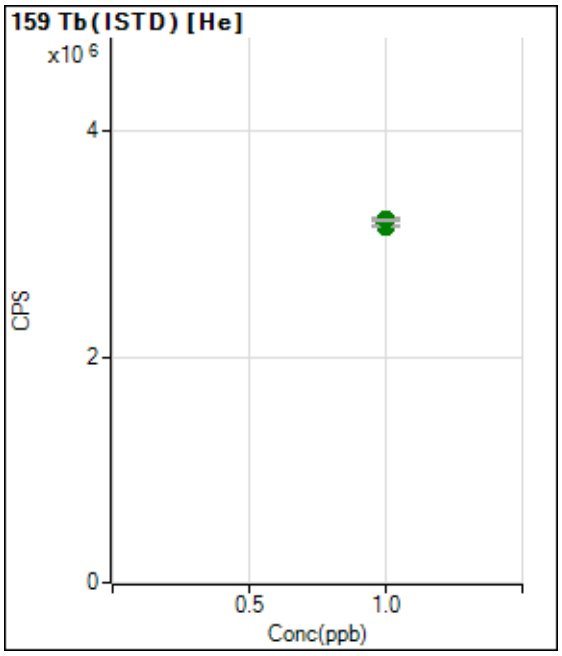
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8695701.32		A	1.5
2	☐	1.000		8570636.33		A	0.5
3	☐	1.000		8411604.11		A	0.9
4	☐	1.000		8594576.60		A	1.0
5	☐	1.000		8539632.16		A	0.7



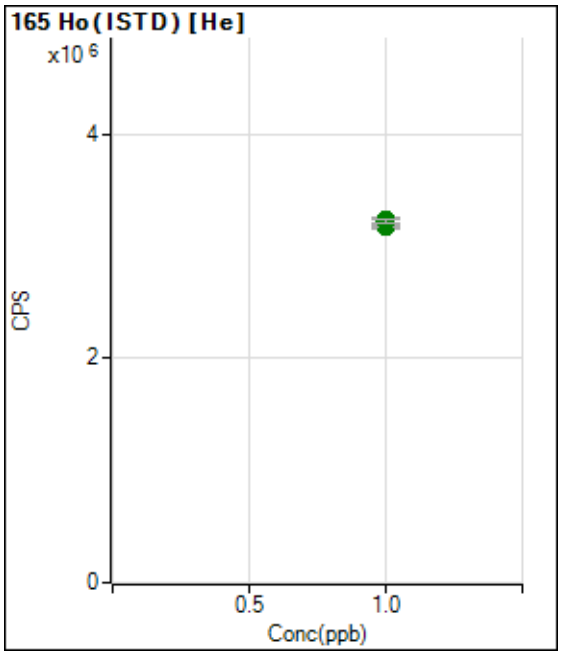
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2215798.66		A	1.9
2	☐	1.000		2231606.44		A	0.7
3	☐	1.000		2117757.90		A	1.2
4	☐	1.000		2087622.55		A	1.4
5	☐	1.000		2230527.69		A	1.5



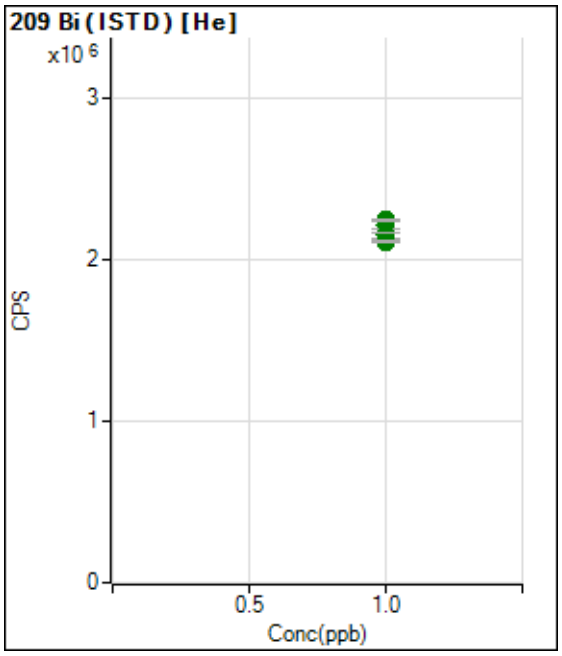
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1382146.11		P	0.2
2	☐	1.000		1366349.59		P	0.6
3	☐	1.000		1306373.09		P	0.1
4	☐	1.000		1297133.78		P	0.1
5	☐	1.000		1365439.97		P	0.9



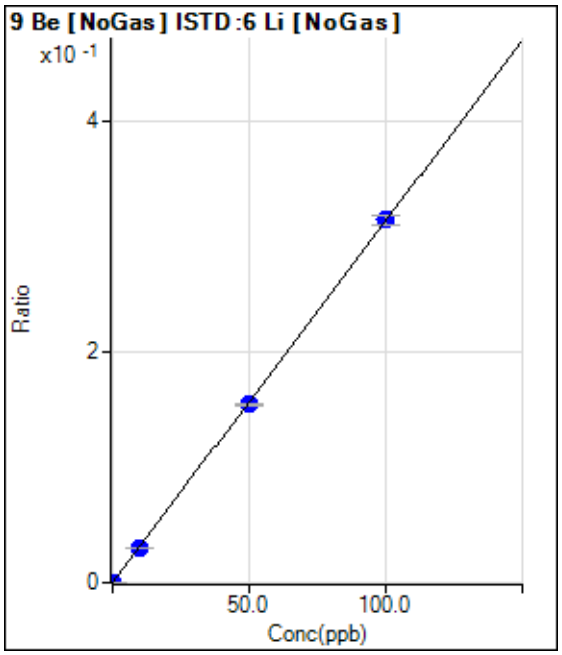
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3202578.90		A	2.1
2	☐	1.000		3209264.25		A	0.6
3	☐	1.000		3186893.00		A	1.4
4	☐	1.000		3159155.57		A	0.8
5	☐	1.000		3213136.68		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3234085.22		A	1.4
2	☐	1.000		3202239.39		A	0.6
3	☐	1.000		3163081.12		A	0.5
4	☐	1.000		3170836.89		A	0.5
5	☐	1.000		3223802.93		A	0.6



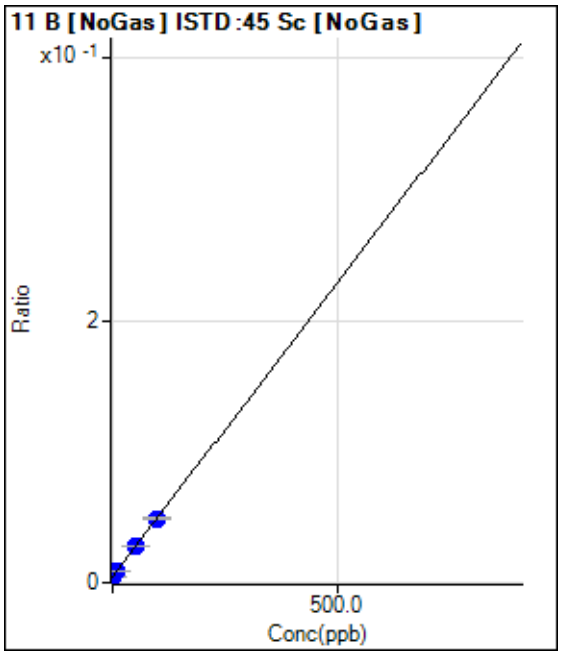
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2214526.93		A	2.0
2	☐	1.000		2239601.16		A	0.1
3	☐	1.000		2149542.76		A	1.3
4	☐	1.000		2111526.79		A	0.6
5	☐	1.000		2246062.83		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244.46	0.0001	P	19.8
2	☐	10.000	9.483	66095.35	0.0298	P	1.7
3	☐	50.000	49.394	336235.53	0.1548	P	0.9
4	☐	100.000	100.355	676938.31	0.3143	P	2.4
5	☐			425.95	0.0002	P	9.8

y = 0.0031 * x + 1.0551E-004
R = 1.0000
DL = 0.02005
BEC = 0.0337

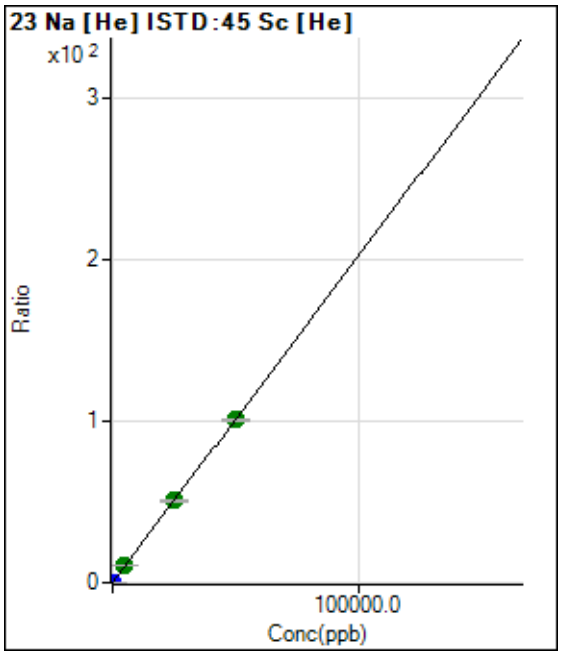
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40103.37	0.0046	P	2.5
2	☐	10.000	9.416	75798.96	0.0088	P	1.3
3	☐	50.000	52.395	236877.65	0.0282	P	0.8
4	☐			40073.51	0.0047	P	2.1
5	☐	100.000	98.861	418846.09	0.0490	P	1.0

y = 4.4945E-004 * x + 0.0046
R = 0.9994
DL = 0.7785
BEC = 10.26

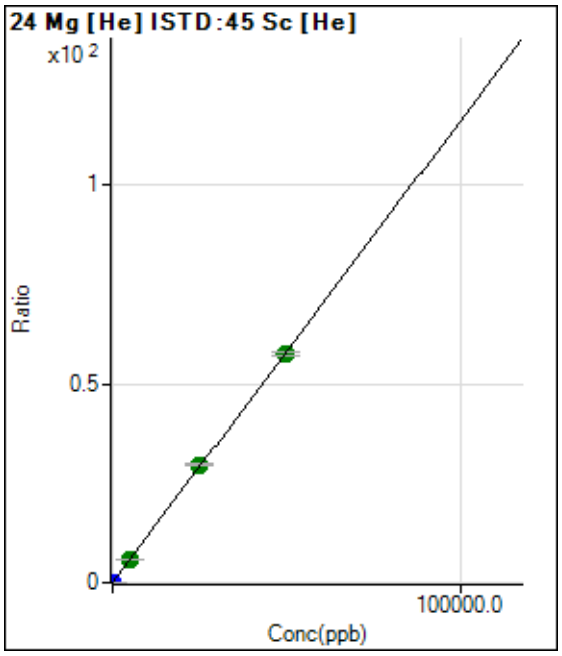
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55109.05	0.0595	P	2.3
2	☐	5000.000	5118.133	9819311.65	10.4404	A	2.0
3	☐	25000.000	25215.097	47288244.42	51.2021	A	2.3
4	☐	50000.000	49880.638	91907646.35	101.2302	A	0.9
5	☐			70706.44	0.0758	P	1.4

y = 0.0020 * x + 0.0595
R = 1.0000
DL = 2.019
BEC = 29.33

Weight: <None>
Min Conc: <None>

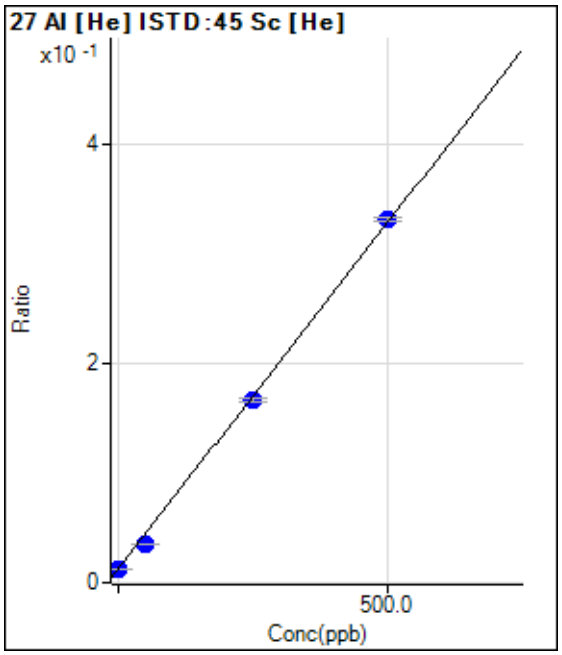


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6008.70	0.0065	P	6.4
2	☐	5000.000	5115.080	5582625.94	5.9350	A	1.0
3	☐	25000.000	25524.208	27328568.36	29.5895	A	2.2
4	☐	50000.000	49726.388	52328410.88	57.6402	A	1.6
5	☐			8098.51	0.0087	P	11.5

y = 0.0012 * x + 0.0065
R = 0.9999
DL = 1.068
BEC = 5.596

Weight: <None>
Min Conc: <None>

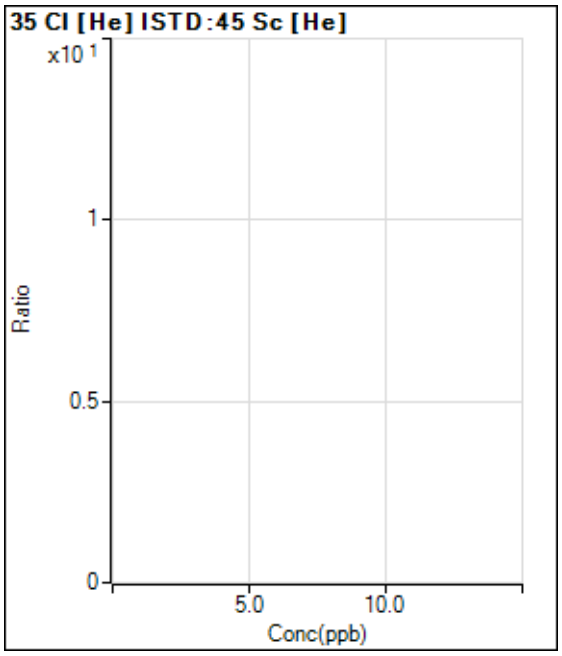
Calibration for 061SMPL.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11435.88	0.0123	P	3.7
2	☐	50.000	36.282	33198.66	0.0353	P	1.4
3	☐	250.000	243.934	153925.03	0.1667	P	1.9
4	☐	500.000	504.405	300895.87	0.3314	P	1.0
5	☐			3385.91	0.0036	P	2.3

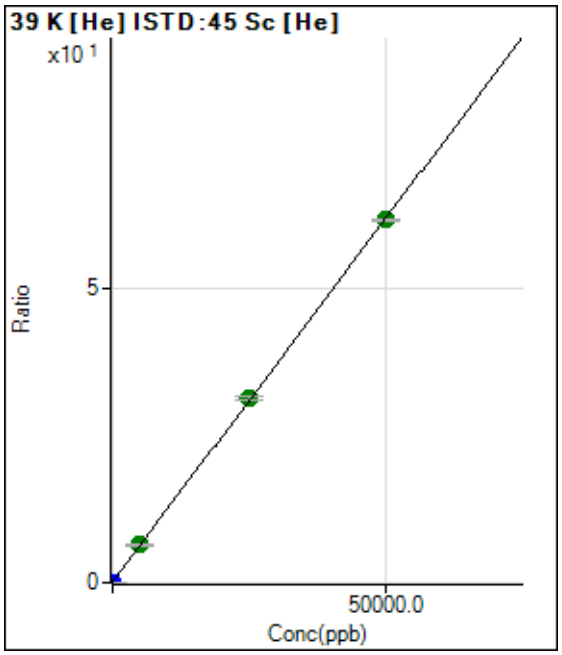
y = 6.3258E-004 * x + 0.0123
R = 0.9996
DL = 2.167
BEC = 19.51

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			22213940.78	23.9797	A	0.8
2	☐			21707665.80	23.0787	A	1.4
3	☐			21834040.34	23.6453	A	3.2
4	☐			21778295.90	23.9864	A	0.6
5	☐			21729500.52	23.3009	A	1.8

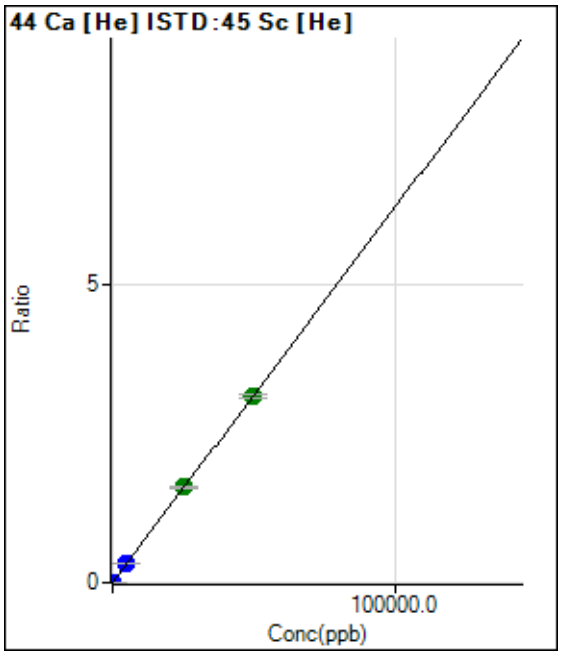
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84681.77	0.0914	P	0.6
2	☐	5000.000	5123.072	6044635.87	6.4273	A	3.1
3	☐	25000.000	25277.185	28956963.66	31.3526	A	2.1
4	☐	50000.000	49849.100	56055266.29	61.7415	A	0.9
5	☐			94484.95	0.1013	P	3.1

y = 0.0012 * x + 0.0914
R = 1.0000
DL = 1.248
BEC = 73.91

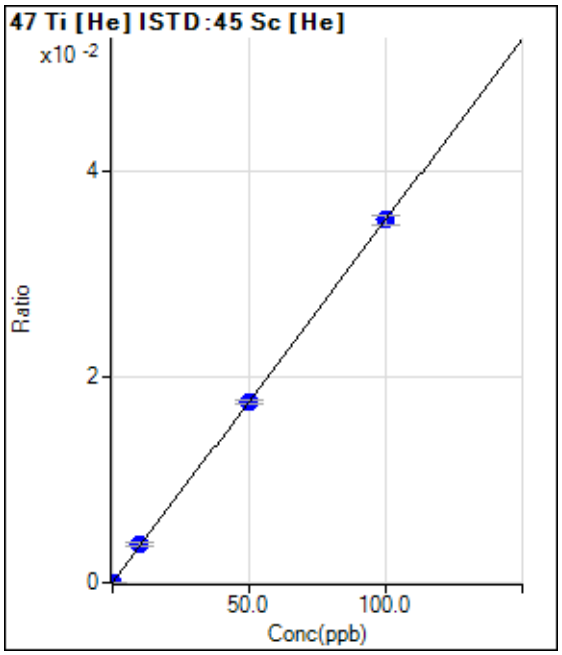
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2020.22	0.0022	P	1.8
2	☐	5000.000	5022.103	298552.70	0.3174	P	0.7
3	☐	25000.000	25453.275	1477747.96	1.5997	A	2.0
4	☐	50000.000	49771.152	2837902.58	3.1260	A	1.6
5	☐			1551.75	0.0017	P	8.3

y = 6.2763E-005 * x + 0.0022
R = 0.9999
DL = 1.871
BEC = 34.75

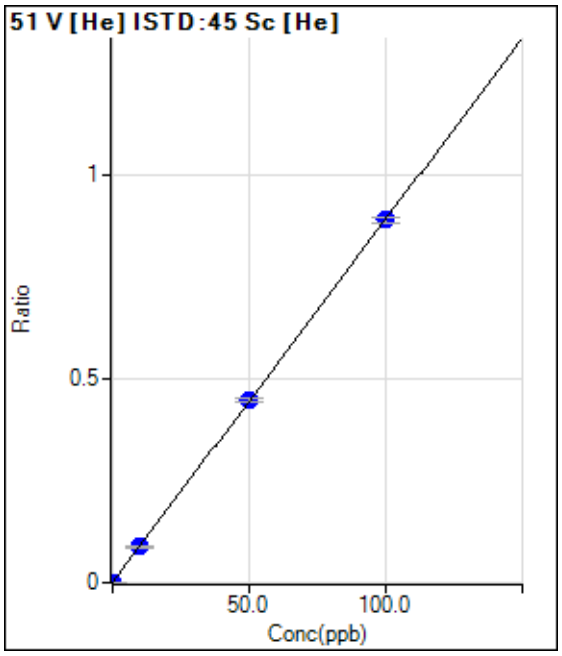
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	52.8
2	☐	10.000	10.436	3481.49	0.0037	P	9.1
3	☐	50.000	49.803	16254.10	0.0176	P	2.4
4	☐			15.56	0.0000	P	117.2
5	☐	100.000	100.055	32953.28	0.0353	P	2.4

y = 3.5303E-004 * x + 1.7973E-005
R = 1.0000
DL = 0.08061
BEC = 0.05091

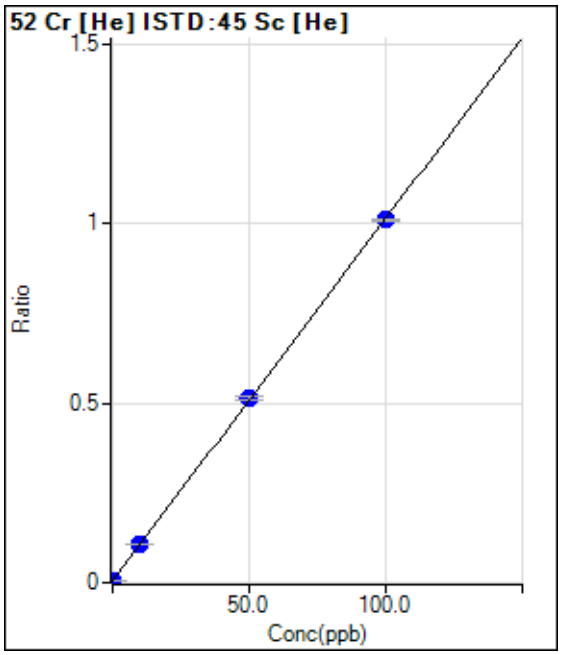
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	534.36	0.0006	P	78.0
2	☐	10.000	9.846	82892.68	0.0881	P	4.3
3	☐	50.000	50.218	412903.54	0.4470	P	1.9
4	☐	100.000	99.906	806946.68	0.8888	P	1.7
5	☐			621.78	0.0007	P	64.5

y = 0.0089 * x + 5.7796E-004
R = 1.0000
DL = 0.1522
BEC = 0.06501

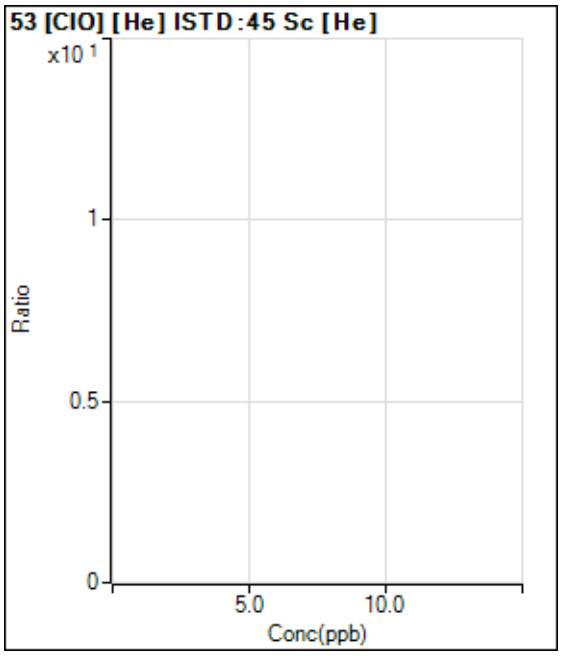
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4101.64	0.0044	P	6.8
2	☐	10.000	10.332	102268.68	0.1087	P	1.9
3	☐	50.000	50.491	474827.38	0.5141	P	2.4
4	☐	100.000	99.721	918027.85	1.0111	P	0.5
5	☐			4287.24	0.0046	P	5.5

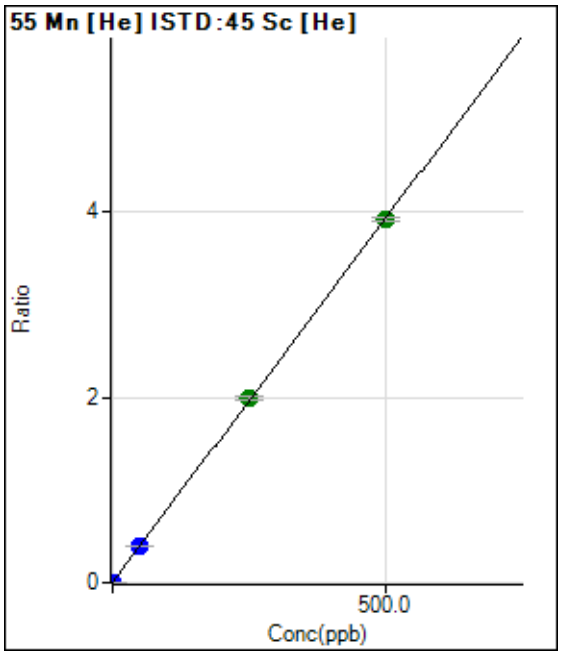
y = 0.0101 * x + 0.0044
R = 1.0000
DL = 0.08989
BEC = 0.4387

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1322.34	0.0014	P	8.0
2	☐			13557.54	0.0144	P	5.8
3	☐			57927.90	0.0627	P	1.5
4	☐			111990.10	0.1233	P	1.6
5	☐			948.22	0.0010	P	8.7

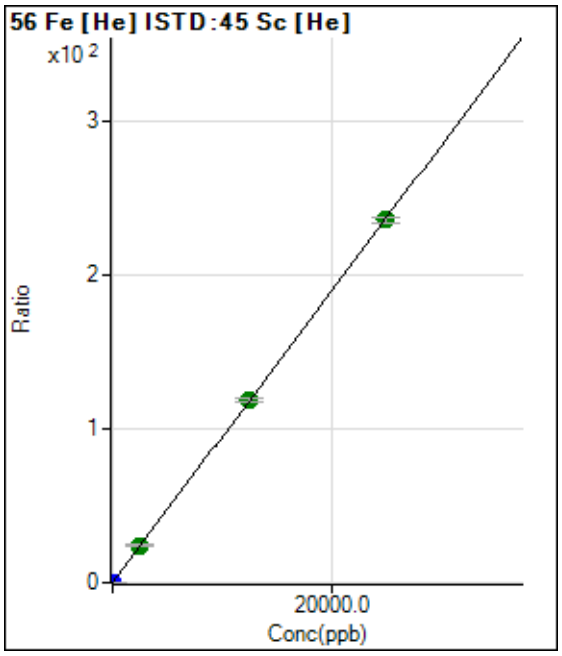
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2233.50	0.0024	P	2.8
2	☐	50.000	49.943	371210.07	0.3946	P	1.1
3	☐	250.000	253.604	1841548.81	1.9941	A	2.6
4	☐	500.000	498.204	3555197.36	3.9151	A	1.2
5	☐			1391.18	0.0015	P	4.7

y = 0.0079 * x + 0.0024
R = 1.0000
DL = 0.02545
BEC = 0.307

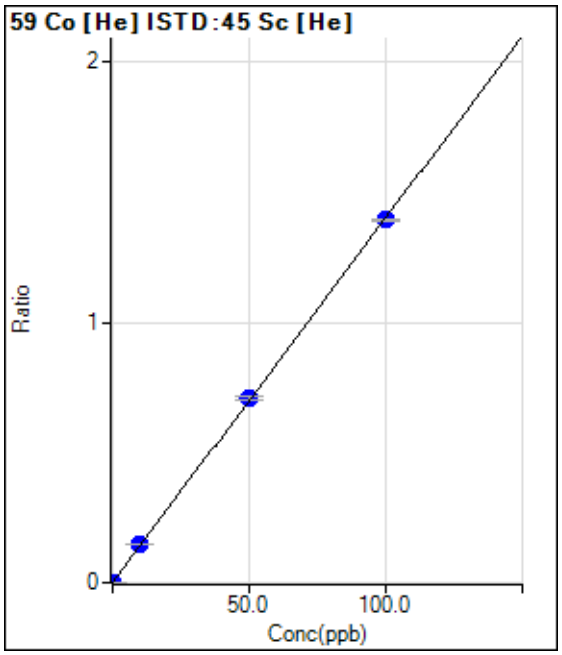
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15261.01	0.0165	P	2.2
2	☐	2500.000	2566.228	22790795.76	24.2301	A	1.5
3	☐	12500.000	12590.185	109726991.20	118.8110	A	2.3
4	☐	25000.000	24948.285	213732795.95	235.4157	A	1.3
5	☐			208731.76	0.2227	P	26.1

y = 0.0094 * x + 0.0165
R = 1.0000
DL = 0.1146
BEC = 1.746

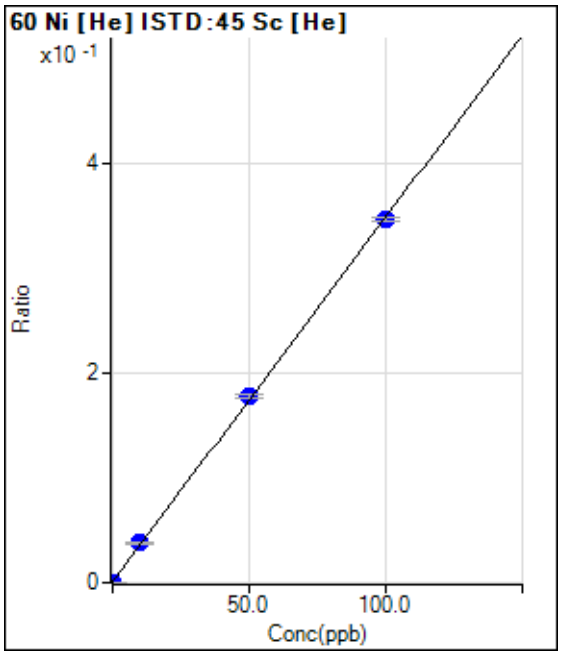
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	337.79	0.0004	P	11.9
2	☐	10.000	10.546	139136.92	0.1479	P	0.9
3	☐	50.000	50.758	656226.36	0.7105	P	2.2
4	☐	100.000	99.566	1265156.79	1.3934	P	0.3
5	☐			405.57	0.0004	P	2.6

y = 0.0140 * x + 3.6466E-004
R = 0.9999
DL = 0.009292
BEC = 0.02606

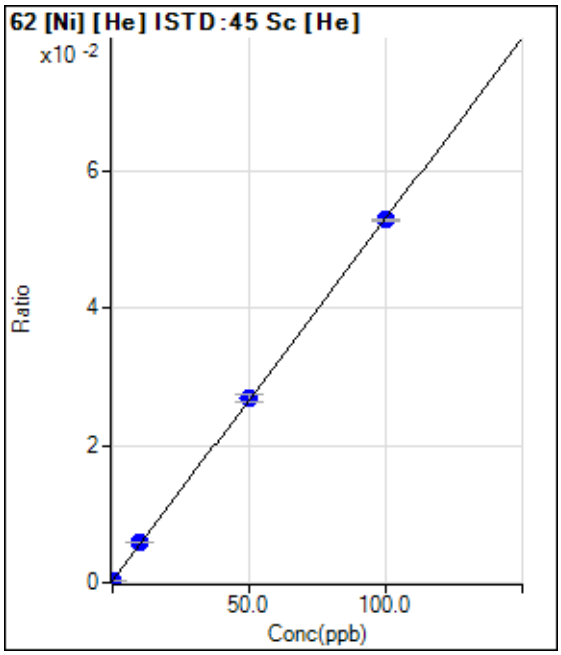
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	653.36	0.0007	P	10.0
2	☐	10.000	10.625	35353.52	0.0376	P	2.7
3	☐	50.000	51.168	164720.42	0.1783	P	2.3
4	☐	100.000	99.354	313818.55	0.3456	P	0.9
5	☐			657.80	0.0007	P	0.6

y = 0.0035 * x + 7.0532E-004
R = 0.9999
DL = 0.06109
BEC = 0.2032

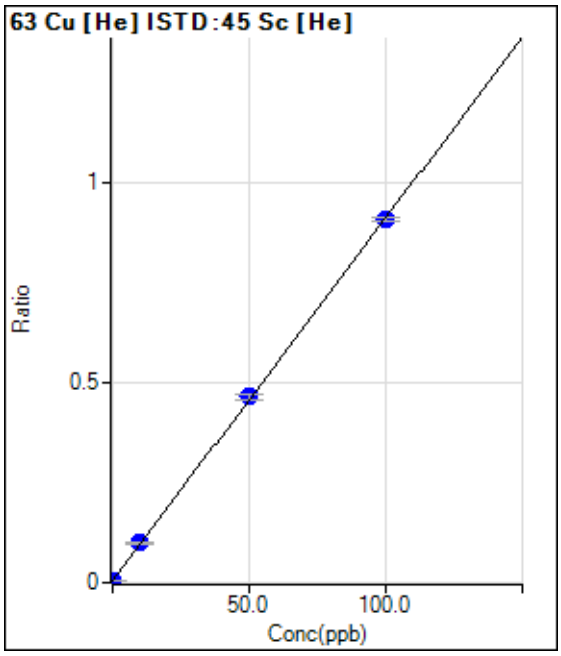
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250.01	0.0003	P	12.5
2	☐	10.000	10.743	5584.27	0.0059	P	1.8
3	☐	50.000	50.402	24796.10	0.0269	P	4.5
4	☐	100.000	99.725	48011.65	0.0529	P	0.2
5	☐			268.89	0.0003	P	9.8

y = 5.2754E-004 * x + 2.6993E-004
R = 1.0000
DL = 0.1918
BEC = 0.5117

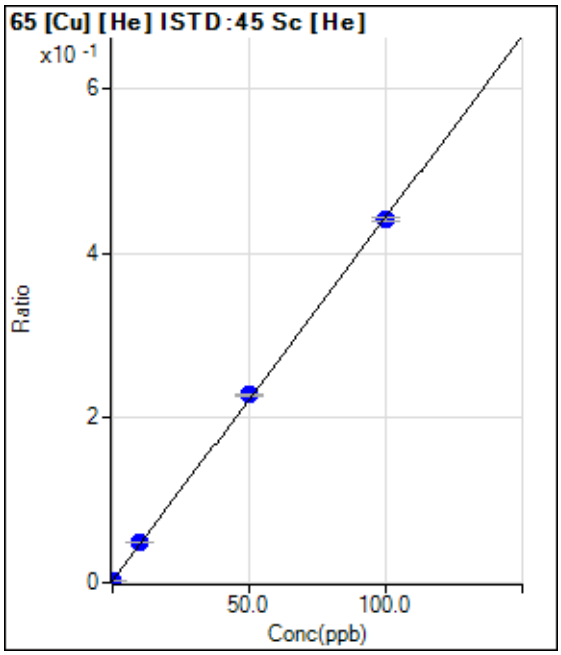
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3994.94	0.0043	P	3.3
2	☐	10.000	10.420	92940.51	0.0988	P	1.1
3	☐	50.000	50.749	428914.81	0.4644	P	2.5
4	☐	100.000	99.583	823650.96	0.9072	P	1.0
5	☐			3770.45	0.0040	P	2.9

y = 0.0091 * x + 0.0043
R = 0.9999
DL = 0.04726
BEC = 0.4757

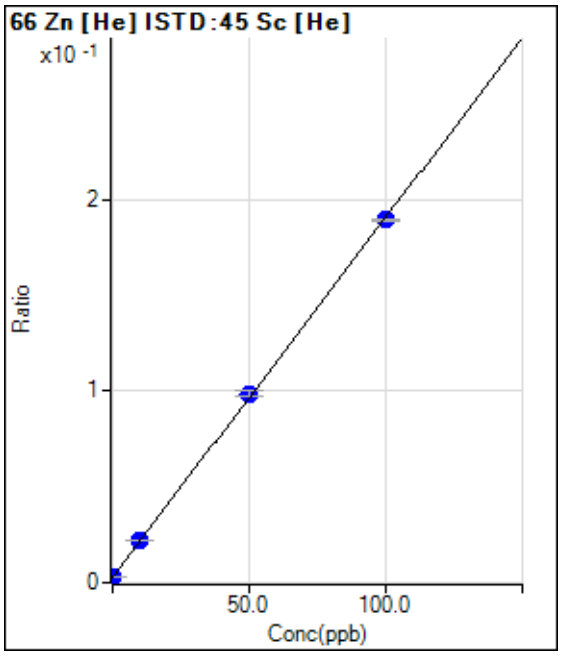
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1941.25	0.0021	P	4.6
2	☐	10.000	10.635	46087.90	0.0490	P	1.5
3	☐	50.000	51.143	210269.91	0.2277	P	1.8
4	☐	100.000	99.365	399786.04	0.4403	P	1.0
5	☐			1803.45	0.0019	P	1.3

y = 0.0044 * x + 0.0021
R = 0.9999
DL = 0.06624
BEC = 0.4751

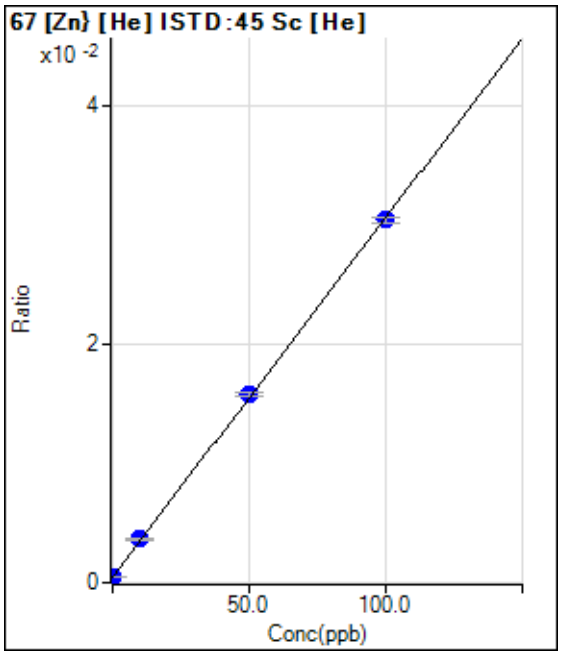
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2601.33	0.0028	P	9.0
2	☐	10.000	10.109	20471.85	0.0218	P	0.9
3	☐	50.000	51.137	91128.51	0.0987	P	2.9
4	☐	100.000	99.420	171790.45	0.1892	P	0.7
5	☐			3241.46	0.0035	P	3.6

y = 0.0019 * x + 0.0028
R = 0.9999
DL = 0.4029
BEC = 1.498

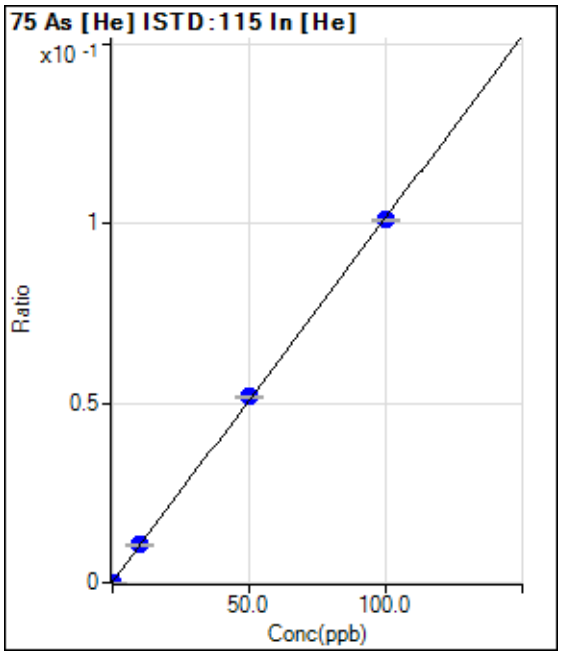
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	422.23	0.0005	P	14.4
2	☐	10.000	10.590	3423.72	0.0036	P	3.4
3	☐	50.000	50.943	14572.73	0.0158	P	1.9
4	☐	100.000	99.469	27574.64	0.0304	P	1.5
5	☐			461.12	0.0005	P	14.0

y = 3.0075E-004 * x + 4.5587E-004
R = 0.9999
DL = 0.6536
BEC = 1.516

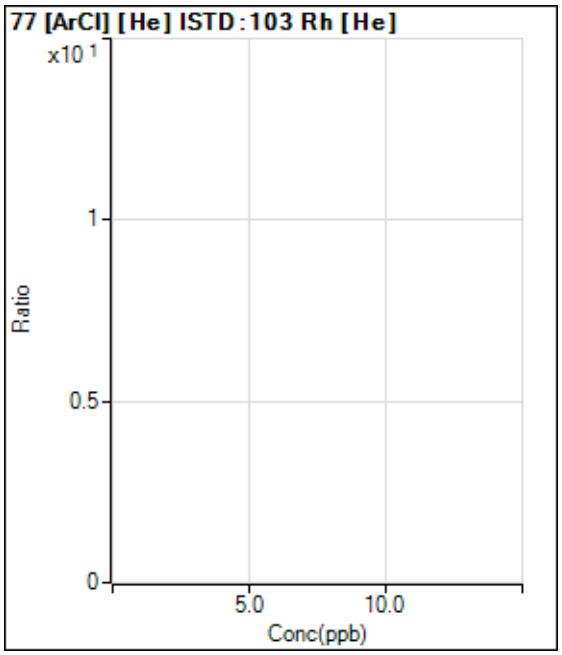
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.85	0.0002	P	6.4
2	☐	10.000	10.154	14337.72	0.0105	P	1.2
3	☐	50.000	51.006	67870.43	0.0520	P	1.0
4	☐	100.000	99.482	131207.63	0.1012	P	0.7
5	☐			302.88	0.0002	P	3.2

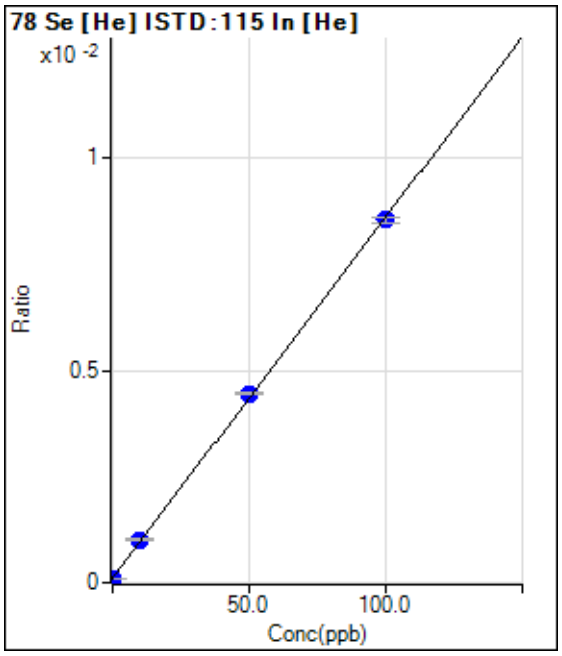
y = 0.0010 * x + 1.8728E-004
R = 0.9999
DL = 0.03542
BEC = 0.1845

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			51.85	0.0000	P	69.1
2	☐			403.73	0.0002	P	13.0
3	☐			1626.09	0.0008	P	13.5
4	☐			3430.13	0.0016	P	2.2
5	☐			59.26	0.0000	P	71.1

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	137.65	0.0001	P	11.2
2	☐	10.000	10.589	1366.06	0.0010	P	3.8
3	☐	50.000	51.256	5823.51	0.0045	P	0.5
4	☐	100.000	99.313	11082.71	0.0085	P	1.7
5	☐			150.75	0.0001	P	1.9

y = 8.5028E-005 * x + 9.9576E-005

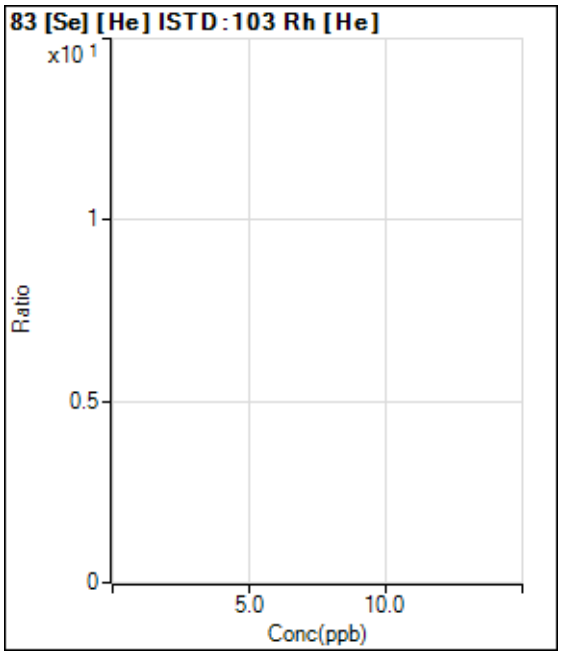
R = 0.9999

DL = 0.3943

BEC = 1.171

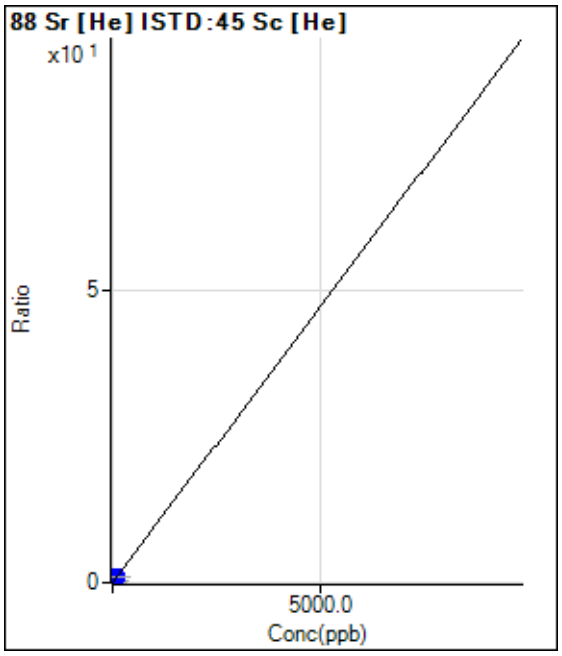
Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			311.45	0.0001	P	9.9
2	☐			316.50	0.0001	P	9.7
3	☐			305.39	0.0001	P	13.6
4	☐			300.34	0.0001	P	6.0
5	☐			314.14	0.0001	P	6.0

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.35	0.0006	P	10.1
2	☐	10.000	10.291	91705.87	0.0975	P	0.9
3	☐	50.000	50.801	442465.39	0.4791	P	2.6
4	☐	100.000	99.571	852084.12	0.9385	P	1.0
5	☐			407.79	0.0004	P	11.4

y = 0.0094 * x + 5.5425E-004

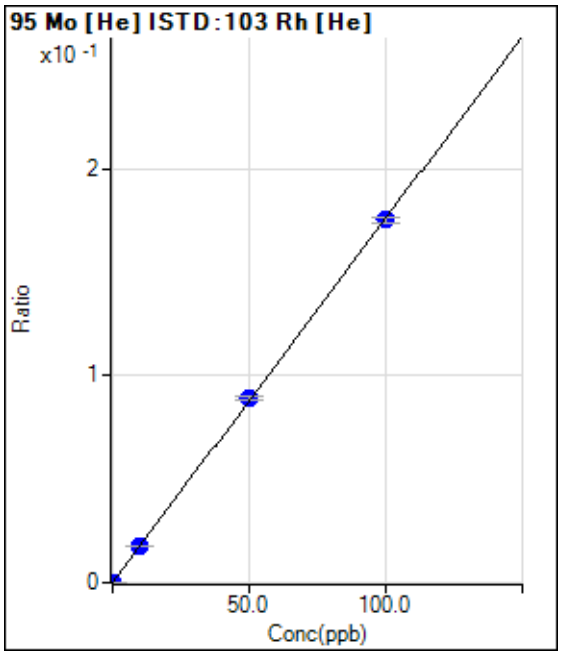
R = 0.9999

DL = 0.0178

BEC = 0.05884

Weight: <None>

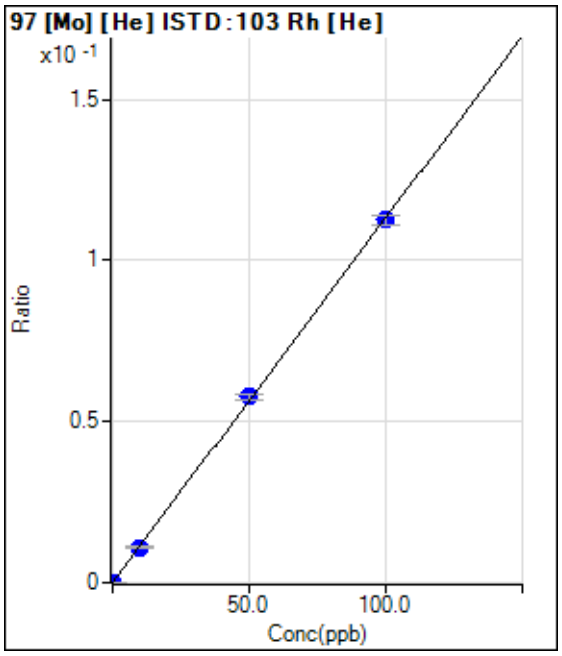
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.22	0.0000	P	39.9
2	☐	10.000	9.797	38524.69	0.0173	P	0.5
3	☐	50.000	50.715	189042.12	0.0893	P	2.0
4	☐			4012.76	0.0019	P	17.8
5	☐	100.000	99.663	391194.81	0.1754	P	1.7

y = 0.0018 * x + 2.3447E-005
R = 0.9999
DL = 0.01595
BEC = 0.01332

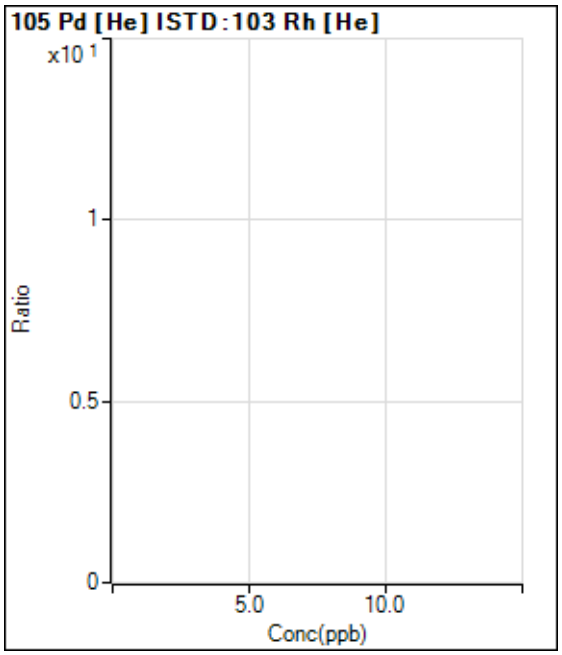
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	98.7
2	☐	10.000	9.630	24299.43	0.0109	P	4.4
3	☐	50.000	50.951	121947.60	0.0576	P	3.4
4	☐			2396.59	0.0011	P	11.8
5	☐	100.000	99.562	250966.70	0.1125	P	2.6

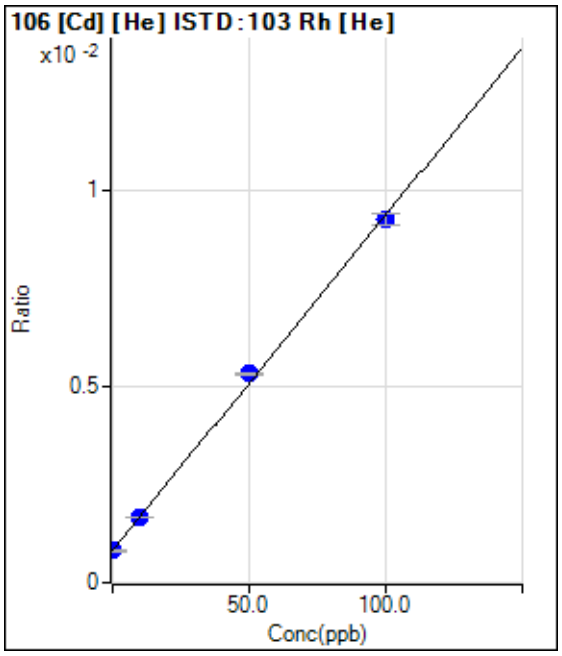
y = 0.0011 * x + 4.9899E-006
R = 0.9999
DL = 0.01308
BEC = 0.004415

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1826.10	0.0008	P	6.9
2	☐			1748.32	0.0008	P	13.4
3	☐			1978.00	0.0009	P	18.6
4	☐			2500.28	0.0012	P	6.2
5	☐			1729.81	0.0008	P	1.3

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1809.86	0.0008	P	2.4
2	☐	10.000	10.046	3737.45	0.0017	P	1.7
3	☐	50.000	52.719	11264.27	0.0053	P	1.0
4	☐	100.000	98.636	19284.74	0.0092	P	3.0
5	☐			2451.70	0.0011	P	4.4

y = 8.5397E-005 * x + 8.1705E-004

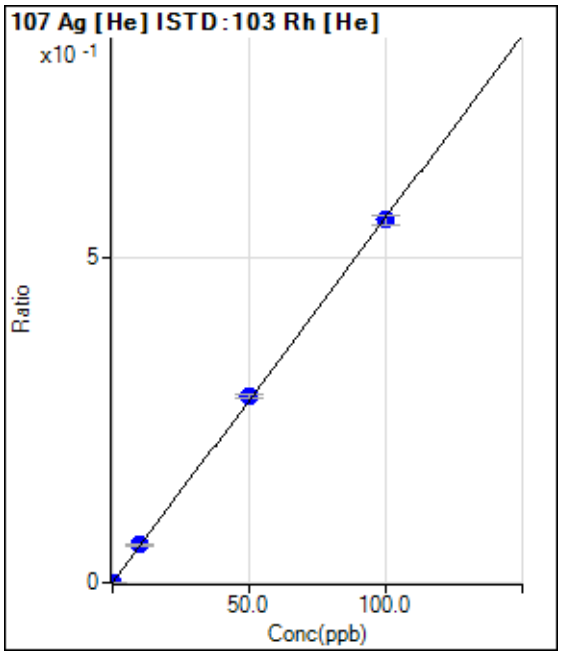
R = 0.9993

DL = 0.6879

BEC = 9.568

Weight: <None>

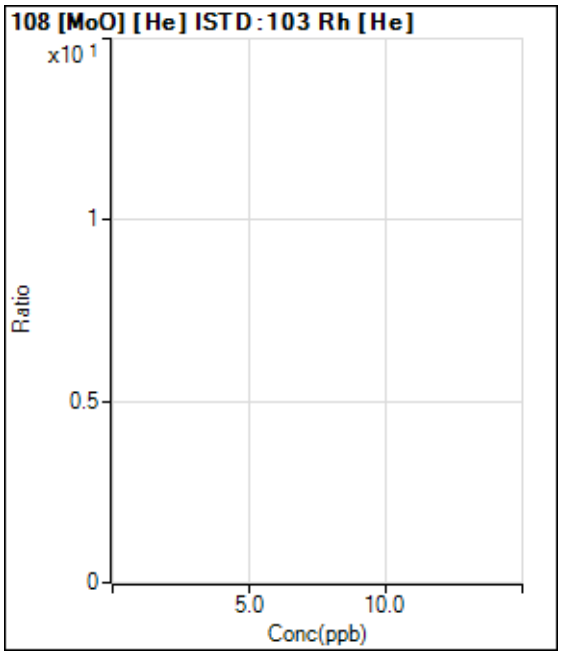
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	39.7
2	☐	10.000	10.335	129388.58	0.0580	P	2.0
3	☐	50.000	51.045	606351.80	0.2863	P	1.7
4	☐	100.000	99.444	1164244.57	0.5578	P	2.7
5	☐			437.79	0.0002	P	15.5

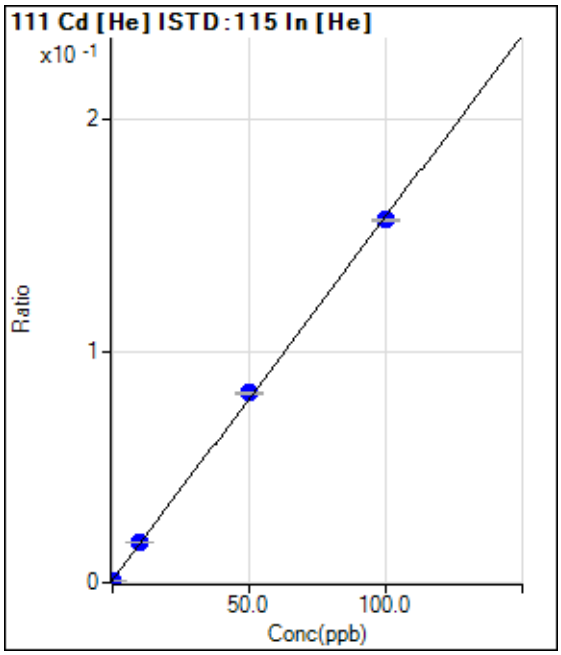
y = 0.0056 * x + 1.0576E-005
R = 0.9999
DL = 0.002244
BEC = 0.001885

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00	0.0000	P	
2	☐			1329.74	0.0006	P	1.3
3	☐			6846.15	0.0032	P	0.4
4	☐			12953.57	0.0062	P	4.3
5	☐			307.43	0.0001	P	46.2

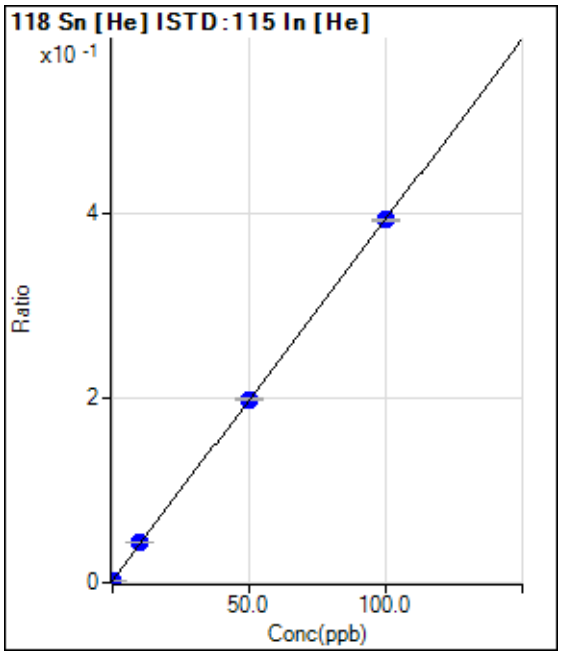
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1390.48	0.0010	P	0.3
2	☐	10.000	10.378	23630.30	0.0173	P	1.2
3	☐	50.000	51.621	107155.86	0.0820	P	1.3
4	☐	100.000	99.152	203162.47	0.1566	P	0.7
5	☐			1791.38	0.0013	P	3.6

y = 0.0016 * x + 0.0010
R = 0.9998
DL = 0.006229
BEC = 0.641

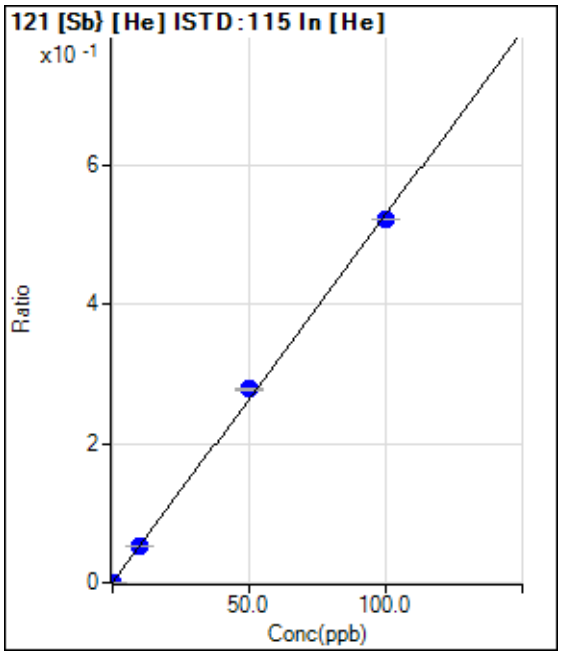
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3304.19	0.0024	P	4.1
2	☐	10.000	10.671	60430.00	0.0442	P	0.5
3	☐	50.000	50.157	260026.79	0.1990	P	1.5
4	☐			3748.74	0.0029	P	4.8
5	☐	100.000	99.854	537852.06	0.3939	P	0.2

y = 0.0039 * x + 0.0024
R = 1.0000
DL = 0.07563
BEC = 0.6097

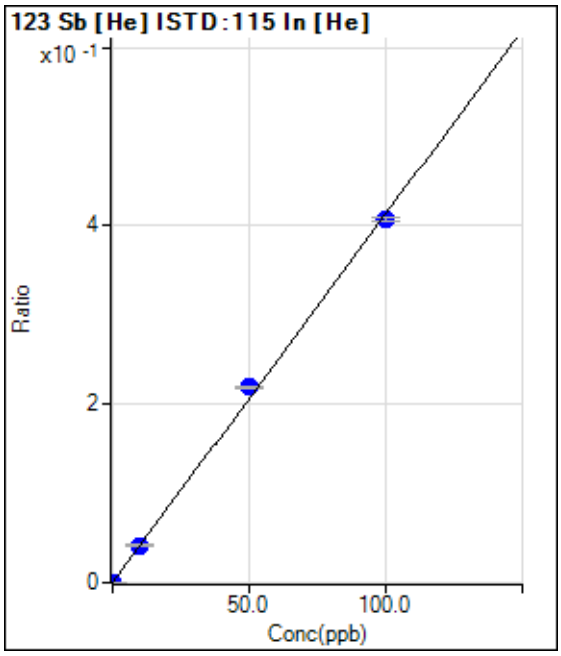
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.44	0.0001	P	32.8
2	☐	10.000	9.949	71887.62	0.0526	P	1.3
3	☐	50.000	52.636	363243.49	0.2781	P	0.3
4	☐			2214.62	0.0017	P	9.0
5	☐	100.000	98.687	711758.22	0.5213	P	0.0

y = 0.0053 * x + 6.8339E-005
R = 0.9994
DL = 0.01275
BEC = 0.01294

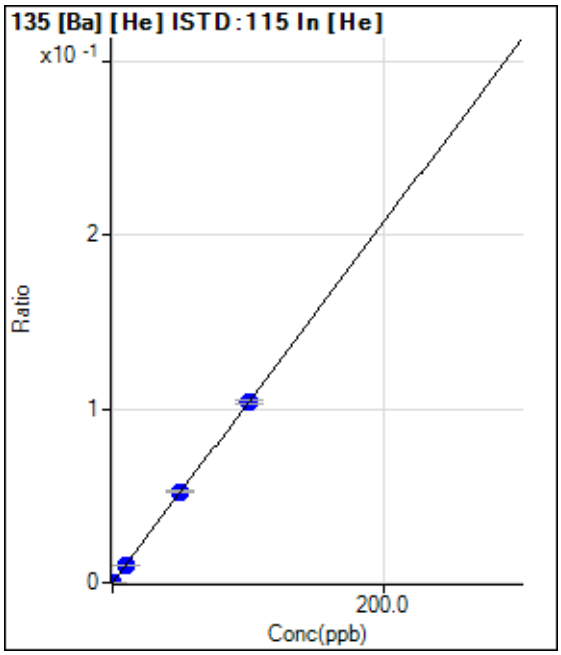
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.22	0.0001	P	30.7
2	☐	10.000	10.111	57111.52	0.0418	P	1.4
3	☐	50.000	52.990	285852.56	0.2188	P	1.3
4	☐			1713.44	0.0013	P	9.0
5	☐	100.000	98.494	555252.98	0.4067	P	0.9

y = 0.0041 * x + 5.9486E-005
R = 0.9992
DL = 0.01327
BEC = 0.01441

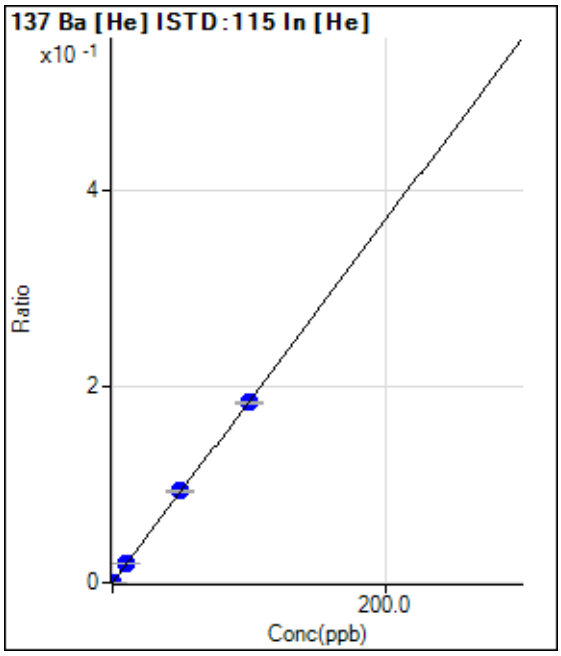
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.34	0.0000	P	24.3
2	☐	10.000	9.847	14009.28	0.0103	P	1.1
3	☐	50.000	50.529	68482.95	0.0524	P	1.6
4	☐	100.000	99.751	134183.17	0.1034	P	2.1
5	☐			66.66	0.0000	P	23.8

y = 0.0010 * x + 4.5837E-005
R = 1.0000
DL = 0.03221
BEC = 0.04422

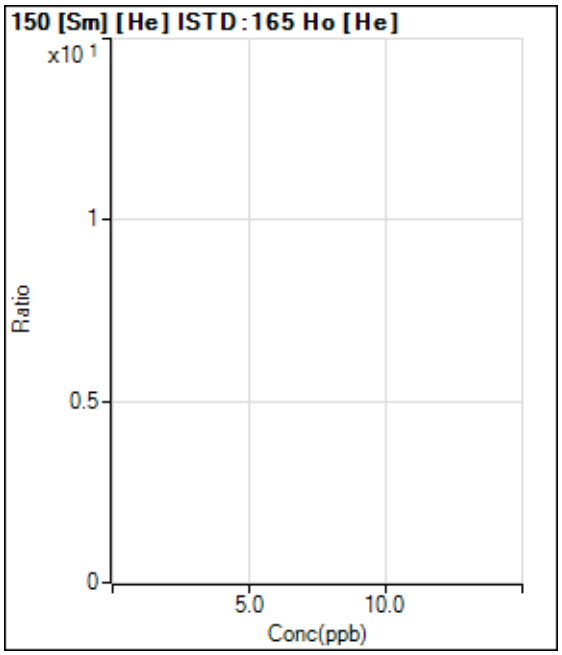
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.44	0.0001	P	6.9
2	☐	10.000	10.190	25687.51	0.0188	P	1.8
3	☐	50.000	50.757	122048.39	0.0934	P	1.6
4	☐	100.000	99.603	237742.18	0.1833	P	1.2
5	☐			191.11	0.0001	P	12.2

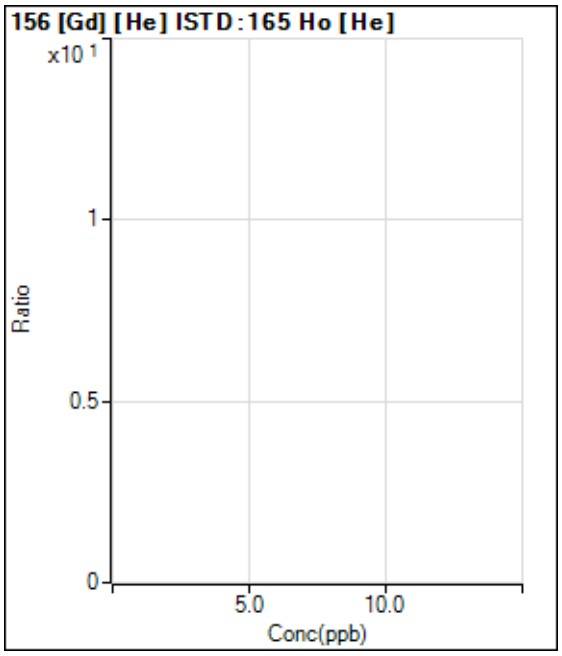
y = 0.0018 * x + 5.3863E-005
R = 1.0000
DL = 0.006083
BEC = 0.02928

Weight: <None>
Min Conc: <None>



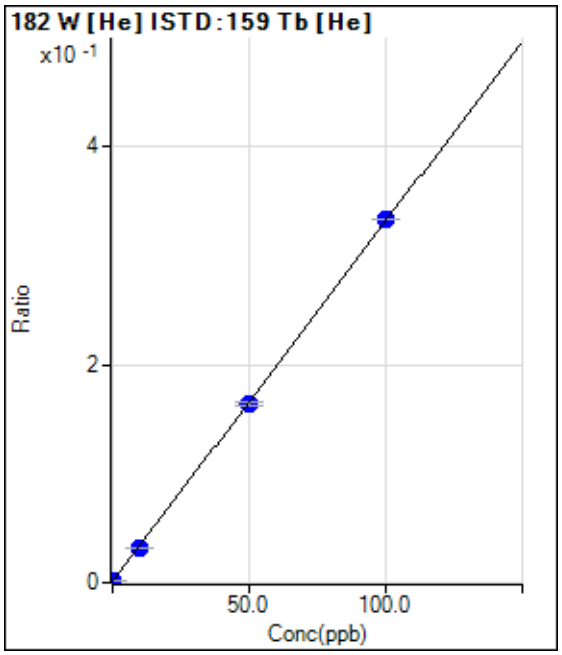
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			9.33	0.0000	P	33.1
2	☐			10.67	0.0000	P	59.9
3	☐			13.33	0.0000	P	46.1
4	☐			18.00	0.0000	P	44.4
5	☐			10.67	0.0000	P	84.7

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			41.33	0.0000	P	23.2
2	☐			36.67	0.0000	P	25.8
3	☐			40.00	0.0000	P	16.8
4	☐			47.33	0.0000	P	26.5
5	☐			24.67	0.0000	P	12.9

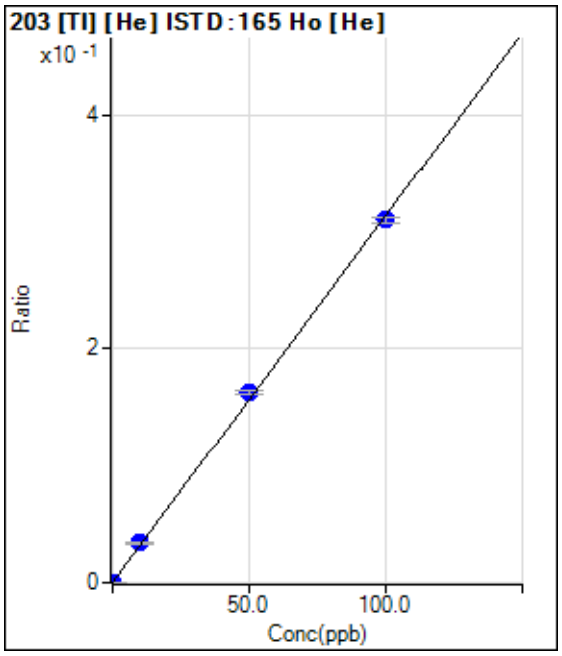
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3133.79	0.0010	P	3.0
2	☐	10.000	9.528	104121.63	0.0324	P	0.7
3	☐	50.000	49.135	520107.40	0.1632	P	2.2
4	☐			14329.26	0.0045	P	10.9
5	☐	100.000	100.480	1069305.05	0.3328	P	0.2

y = 0.0033 * x + 9.7892E-004
R = 0.9999
DL = 0.02704
BEC = 0.2964

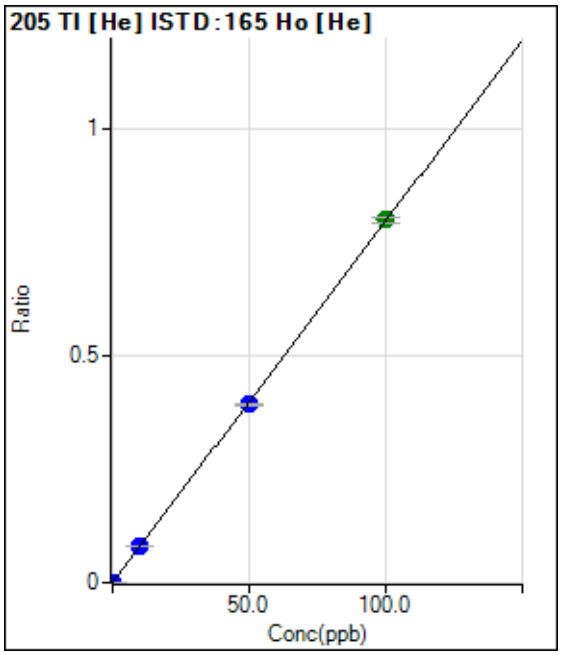
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	162.97	0.0001	P	9.0
2	☐	10.000	10.754	108000.59	0.0337	P	0.8
3	☐	50.000	51.878	513990.04	0.1625	P	1.7
4	☐	100.000	98.986	983008.44	0.3100	P	1.8
5	☐			1626.10	0.0005	P	12.7

y = 0.0031 * x + 5.0425E-005
R = 0.9997
DL = 0.004325
BEC = 0.0161

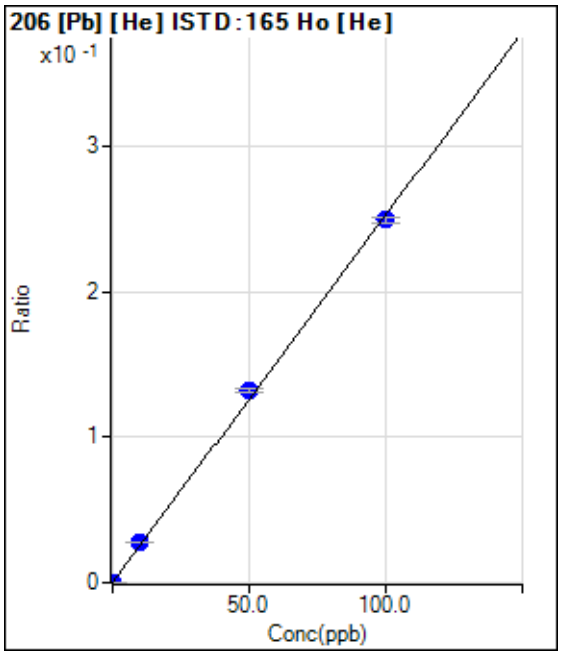
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	408.90	0.0001	P	1.4
2	☐	10.000	10.162	259543.93	0.0810	P	1.0
3	☐	50.000	49.236	1240480.12	0.3922	P	1.6
4	☐	100.000	100.366	2534489.55	0.7993	A	1.4
5	☐			2585.81	0.0008	P	26.0

y = 0.0080 * x + 1.2644E-004
R = 0.9999
DL = 0.0006572
BEC = 0.01588

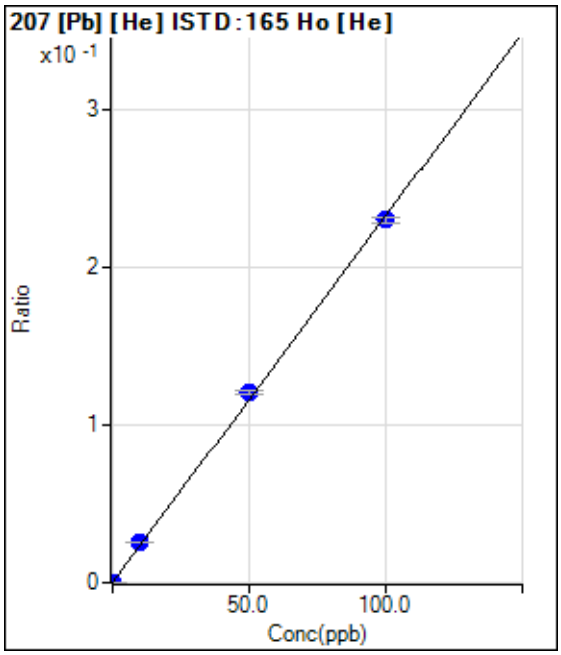
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	297.79	0.0001	P	10.8
2	☐	10.000	10.864	87960.07	0.0275	P	1.2
3	☐	50.000	52.197	416300.96	0.1316	P	2.1
4	☐	100.000	98.815	789804.90	0.2491	P	1.3
5	☐			465.57	0.0001	P	9.9

y = 0.0025 * x + 9.2122E-005
R = 0.9996
DL = 0.01188
BEC = 0.03656

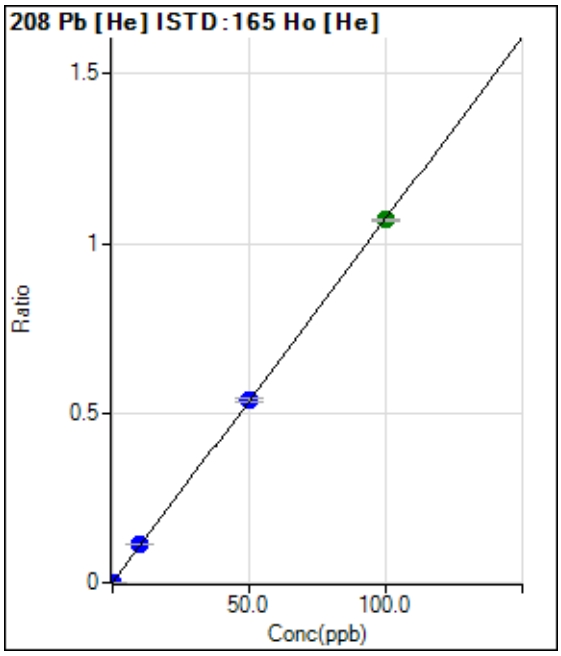
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	271.12	0.0001	P	11.7
2	☐	10.000	10.845	80886.74	0.0253	P	0.8
3	☐	50.000	51.825	380787.66	0.1204	P	1.6
4	☐	100.000	99.003	728985.86	0.2299	P	1.6
5	☐			417.79	0.0001	P	4.9

y = 0.0023 * x + 8.3911E-005
R = 0.9997
DL = 0.01264
BEC = 0.03615

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1157.82	0.0004	P	9.8
2	☐	10.000	10.522	362127.48	0.1131	P	0.7
3	☐	50.000	50.387	1708496.92	0.5402	P	1.8
4	☐	100.000	99.754	3389702.28	1.0690	A	0.6
5	☐			1930.07	0.0006	P	12.5

y = 0.0107 * x + 3.5826E-004
R = 1.0000
DL = 0.009785
BEC = 0.03344

Weight: <None>
Min Conc: <None>

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	001CALB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:04:28-04:00
Sample Type	CalBlk
Level	
Dilution	1
Comment	6020/200.8

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	193	7.54
B	11	45	2	NoGas	41347	0.00
Na	23	45	1	He	55098	0.00
Mg	24	45	1	He	6450	0.15
Al	27	45	1	He	11427	0.02
K	39	45	1	He	83651	0.00
Ca	44	45	1	He	2066	0.16
Ti	47	45	1	He	14	92.44
V	51	45	1	He	365	76.76
Cr	52	45	1	He	4356	0.07
Mn	55	45	1	He	2348	0.20
Fe	56	45	1	He	16343	0.02
Co	59	45	1	He	281	5.27
Ni	60	45	1	He	564	1.70
Cu	63	45	1	He	4326	0.09
Zn	66	45	1	He	2598	0.16
As	75	115	1	He	288	0.21
Se	78	115	1	He	146	1.69
Sr	88	45	1	He	500	1.19
Mo	95	103	1	He	180	14.25
Ag	107	103	1	He	21	240.42
Cd	111	115	1	He	1536	0.12
Sn	118	115	1	He	3382	0.09
Sb	123	115	1	He	162	21.09
Ba	137	115	1	He	89	8.79
W	182	159	1	He	3675	0.20
Tl	205	165	1	He	478	2.20
Pb	208	165	1	He	1128	0.37

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	2303314	0.62
Sc	45	1	He	914712	0.60
Sc	45	2	NoGas	8760771	1.31
Rh	103	1	He	2220848	1.33
In	115	1	He	1356690	0.72
Tb	159	1	He	3162996	0.73
Ho	165	1	He	3150977	0.33
Bi	209	1	He	2201374	1.34

Calibration Blank Report

Sample Table

Sample Name	ICIS
Data File Name	002CALB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:08:20-04:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	244	8.11
B	11	45	2	NoGas	40103	0.01
Na	23	45	1	He	55109	0.00
Mg	24	45	1	He	6009	0.11
Al	27	45	1	He	11436	0.03
K	39	45	1	He	84682	0.00
Ca	44	45	1	He	2020	0.09
Ti	47	45	1	He	17	317.38
V	51	45	1	He	534	14.57
Cr	52	45	1	He	4102	0.16
Mn	55	45	1	He	2234	0.12
Fe	56	45	1	He	15261	0.01
Co	59	45	1	He	338	3.49
Ni	60	45	1	He	653	1.52
Cu	63	45	1	He	3995	0.08
Zn	66	45	1	He	2601	0.34
As	75	115	1	He	259	2.51
Se	78	115	1	He	138	8.28
Sr	88	45	1	He	513	1.91
Mo	95	103	1	He	52	79.53
Ag	107	103	1	He	23	161.93
Cd	111	115	1	He	1390	0.03
Sn	118	115	1	He	3304	0.13
Sb	123	115	1	He	82	37.34
Ba	137	115	1	He	74	9.19
W	182	159	1	He	3134	0.03
Tl	205	165	1	He	409	0.46
Pb	208	165	1	He	1158	0.75

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	2317135	0.32
Sc	45	1	He	926381	0.38
Sc	45	2	NoGas	8695701	1.46
Rh	103	1	He	2215799	1.93
In	115	1	He	1382146	0.17
Tb	159	1	He	3202579	2.07
Ho	165	1	He	3234085	1.43
Bi	209	1	He	2214527	2.04

Calibration Standard Report

Sample Table

Sample Name	STD1-1906323
Data File Name	003CALS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:12:13-04:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	66095	0.00
B	11	2	NoGas	75799	0.00
Na	23	1	He	9819312	0.00
Mg	24	1	He	5582626	0.00
Al	27	1	He	33199	0.00
K	39	1	He	6044636	0.00
Ca	44	1	He	298553	0.00
Ti	47	1	He	3481	0.25
V	51	1	He	82893	0.01
Cr	52	1	He	102269	0.00
Mn	55	1	He	371210	0.00
Fe	56	1	He	22790796	0.00
Co	59	1	He	139137	0.00
Ni	60	1	He	35354	0.00
Cu	63	1	He	92941	0.00
Zn	66	1	He	20472	0.01
As	75	1	He	14338	0.01
Se	78	1	He	1366	0.24
Sr	88	1	He	91706	0.00
Mo	95	1	He	38525	0.00
Ag	107	1	He	129389	0.00
Cd	111	1	He	23630	0.01
Sn	118	1	He	60430	0.00
Sb	123	1	He	57112	0.00
Ba	137	1	He	25688	0.01
W	182	1	He	104122	0.00
Tl	205	1	He	259544	0.00
Pb	208	1	He	362127	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2217969	0.85	2317135	95.72	30	120	
Sc	45	1	He	940743	1.81	926381	101.55	30	120	
Sc	45	2	NoGas	8570636	0.53	8695701	98.56	30	120	
Rh	103	1	He	2231606	0.69	2215799	100.71	30	120	
In	115	1	He	1366350	0.58	1382146	98.86	30	120	
Tb	159	1	He	3209264	0.57	3202579	100.21	30	120	
Ho	165	1	He	3202239	0.57	3234085	99.02	30	120	
Bi	209	1	He	2239601	0.08	2214527	101.13	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD2-1904110
Data File Name	004CALS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:16:06-04:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	336236	0.00
B	11	2	NoGas	236878	0.00
Na	23	1	He	47288244	0.00
Mg	24	1	He	27328568	0.00
Al	27	1	He	153925	0.00
K	39	1	He	28956964	0.00
Ca	44	1	He	1477748	0.00
Ti	47	1	He	16254	0.00
V	51	1	He	412904	0.00
Cr	52	1	He	474827	0.00
Mn	55	1	He	1841549	0.00
Fe	56	1	He	109726991	0.00
Co	59	1	He	656226	0.00
Ni	60	1	He	164720	0.00
Cu	63	1	He	428915	0.00
Zn	66	1	He	91129	0.00
As	75	1	He	67870	0.00
Se	78	1	He	5824	0.01
Sr	88	1	He	442465	0.00
Mo	95	1	He	189042	0.00
Ag	107	1	He	606352	0.00
Cd	111	1	He	107156	0.00
Sn	118	1	He	260027	0.00
Sb	123	1	He	285853	0.00
Ba	137	1	He	122048	0.00
W	182	1	He	520107	0.00
Tl	205	1	He	1240480	0.00
Pb	208	1	He	1708497	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2172544	0.94	2317135	93.76	30	120	
Sc	45	1	He	923962	2.90	926381	99.74	30	120	
Sc	45	2	NoGas	8411604	0.87	8695701	96.73	30	120	
Rh	103	1	He	2117758	1.16	2215799	95.58	30	120	
In	115	1	He	1306373	0.08	1382146	94.52	30	120	
Tb	159	1	He	3186893	1.37	3202579	99.51	30	120	
Ho	165	1	He	3163081	0.49	3234085	97.80	30	120	
Bi	209	1	He	2149543	1.32	2214527	97.07	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD3-1906333
Data File Name	005CALS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:19:52-04:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	676938	0.00
B	11	2	NoGas	40074	0.01
Na	23	1	He	91907646	0.00
Mg	24	1	He	52328411	0.00
Al	27	1	He	300896	0.00
K	39	1	He	56055266	0.00
Ca	44	1	He	2837903	0.00
Ti	47	1	He	16	758.68
V	51	1	He	806947	0.00
Cr	52	1	He	918028	0.00
Mn	55	1	He	3555197	0.00
Fe	56	1	He	213732796	0.00
Co	59	1	He	1265157	0.00
Ni	60	1	He	313819	0.00
Cu	63	1	He	823651	0.00
Zn	66	1	He	171790	0.00
As	75	1	He	131208	0.00
Se	78	1	He	11083	0.02
Sr	88	1	He	852084	0.00
Mo	95	1	He	4013	0.41
Ag	107	1	He	1164245	0.00
Cd	111	1	He	203162	0.00
Sn	118	1	He	3749	0.13
Sb	123	1	He	1713	0.52
Ba	137	1	He	237742	0.00
W	182	1	He	14329	0.08
Tl	205	1	He	2534490	0.00
Pb	208	1	He	3389702	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2154275	2.19	2317135	92.97	30	120	
Sc	45	1	He	907972	1.34	926381	98.01	30	120	
Sc	45	2	NoGas	8594577	1.04	8695701	98.84	30	120	
Rh	103	1	He	2087623	1.37	2215799	94.22	30	120	
In	115	1	He	1297134	0.09	1382146	93.85	30	120	
Tb	159	1	He	3159156	0.76	3202579	98.64	30	120	
Ho	165	1	He	3170837	0.50	3234085	98.04	30	120	
Bi	209	1	He	2111527	0.56	2214527	95.35	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD4-1906536
Data File Name	006CALS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:23:40-04:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	426	2.48
B	11	2	NoGas	418846	0.00
Na	23	1	He	70706	0.01
Mg	24	1	He	8099	0.17
Al	27	1	He	3386	0.10
K	39	1	He	94485	0.00
Ca	44	1	He	1552	0.74
Ti	47	1	He	32953	0.00
V	51	1	He	622	10.16
Cr	52	1	He	4287	0.06
Mn	55	1	He	1391	0.42
Fe	56	1	He	208732	0.01
Co	59	1	He	406	1.04
Ni	60	1	He	658	0.38
Cu	63	1	He	3770	0.16
Zn	66	1	He	3241	0.05
As	75	1	He	303	1.13
Se	78	1	He	151	0.88
Sr	88	1	He	408	3.59
Mo	95	1	He	391195	0.00
Ag	107	1	He	438	3.26
Cd	111	1	He	1791	0.18
Sn	118	1	He	537852	0.00
Sb	123	1	He	555253	0.00
Ba	137	1	He	191	6.85
W	182	1	He	1069305	0.00
Tl	205	1	He	2586	1.00
Pb	208	1	He	1930	0.63

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2228435	0.88	2317135	96.17	30	120	
Sc	45	1	He	932903	3.12	926381	100.70	30	120	
Sc	45	2	NoGas	8539632	0.71	8695701	98.21	30	120	
Rh	103	1	He	2230528	1.52	2215799	100.66	30	120	
In	115	1	He	1365440	0.93	1382146	98.79	30	120	
Tb	159	1	He	3213137	0.68	3202579	100.33	30	120	
Ho	165	1	He	3223803	0.64	3234085	99.68	30	120	
Bi	209	1	He	2246063	0.66	2214527	101.42	30	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV-1905741
Data File Name	007_ICV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:27:29-04:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	NoGas	40.233	0.155	283926	0.85	40	100.6	89.5	110.5	
B	11	45	NoGas	44.299	0.678	217007	0.98	40	110.7	89.5	110.5	ICV Failed
Na	23	45	He	20154.440	0.789	39017270	0.57	20000	100.8	89.5	110.5	
Mg	24	45	He	20404.617	0.400	22546325	0.55	20000	102.0	89.5	110.5	
Al	27	45	He	197.146	0.568	130627	0.52	200	98.6	89.5	110.5	
K	39	45	He	20536.607	0.641	24293870	0.26	20000	102.7	89.5	110.5	
Ca	44	45	He	19671.320	1.056	1178763	0.36	20000	98.4	89.5	110.5	
Ti	47	45	He	40.808	1.133	13749	1.56	40	102.0	89.5	110.5	
V	51	45	He	40.693	0.493	345366	0.43	40	101.7	89.5	110.5	
Cr	52	45	He	40.670	0.075	395537	0.82	40	101.7	89.5	110.5	
Mn	55	45	He	204.297	1.075	1531460	0.33	200	102.1	89.5	110.5	
Fe	56	45	He	10174.896	1.784	91510401	0.90	10000	101.7	89.5	110.5	
Co	59	45	He	40.665	0.582	542608	0.38	40	101.7	89.5	110.5	
Ni	60	45	He	41.352	1.817	137493	1.35	40	103.4	89.5	110.5	
Cu	63	45	He	41.615	0.971	363717	1.15	40	104.0	89.5	110.5	
Zn	66	45	He	42.074	1.168	77865	2.00	40	105.2	89.5	110.5	
As	75	115	He	40.156	0.544	55333	0.10	40	100.4	89.5	110.5	
Se	78	115	He	41.820	1.073	4941	1.51	40	104.6	89.5	110.5	
Sr	88	45	He	41.116	0.162	369687	0.74	40	102.8	89.5	110.5	
Mo	95	103	He	42.820	3.222	165085	1.85	40	107.1	89.5	110.5	
Ag	107	103	He	41.621	2.216	511388	0.95	40	104.1	89.5	110.5	
Cd	111	115	He	41.769	1.067	89958	0.54	40	104.4	89.5	110.5	
Sn	118	115	He	40.851	1.915	219691	1.36	40	102.1	89.5	110.5	
Sb	123	115	He	41.799	0.565	233288	0.14	40	104.5	89.5	110.5	
Ba	137	115	He	40.725	0.603	101325	0.28	40	101.8	89.5	110.5	
W	182	159	He	39.029	2.277	423227	1.84	40	97.6	89.5	110.5	
Tl	205	165	He	39.799	0.249	1032031	0.92	40	99.5	89.5	110.5	
Pb	208	165	He	40.658	0.294	1419063	1.13	40	101.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	NoGas	2252045	0.72	2317135	97.19	30	120	
Sc	45	He	953121	0.89	926381	102.89	30	120	
Sc	45	NoGas	8849060	0.58	8695701	101.76	30	120	
Rh	103	He	2190935	2.11	2215799	98.88	30	120	
In	115	He	1351526	0.53	1382146	97.78	30	120	
Tb	159	He	3259267	0.55	3202579	101.77	30	120	
Ho	165	He	3255179	0.87	3234085	100.65	30	120	
Bi	209	He	2206260	1.19	2214527	99.63	30	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	008_ICB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:31:18-04:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Ti	47	1	He	0.091	48.9	47	31.1	20	
W	182	1	He	1.270	17.8	16921	14.2	10	
Ca	44	1	He	-13.186	-13.5	1264	8.0	1000	
Na	23	1	He	4.809	16.0	64714	2.5	400	
Mg	24	1	He	-1.257	-59.0	4701	17.3	1000	
K	39	1	He	4.264	32.0	90357	2.0	1000	
V	51	1	He	0.046	88.2	926	36.8	2	
Cr	52	1	He	0.075	13.5	4843	1.9	2	
Mn	55	1	He	-0.026	-40.2	2060	3.8	2	
Fe	56	1	He	13.203	22.3	131853	20.0	50	
Co	59	1	He	-0.009	-8.8	224	4.8	1	
Ni	60	1	He	-0.022	-123.3	587	15.4	2	
Cu	63	1	He	0.145	9.3	5260	2.4	2	
Zn	66	1	He	0.012	636.3	2646	5.1	20	
As	75	1	He	0.018	104.5	287	8.6	2	
Se	78	1	He	0.018	676.6	141	9.7	2	
Sr	88	1	He	-0.016	-34.8	378	12.9	10	
Mo	95	1	He	0.927	15.3	3805	15.5	2	
Ag	107	1	He	0.004	32.0	80	22.0	0.2	
Cd	111	1	He	0.043	43.0	1502	2.0	0.2	
Ba	137	1	He	0.004	278.2	84	29.6	5	
Sn	118	1	He	0.405	20.1	5568	8.0	10	
Tl	205	1	He	0.042	14.5	1506	11.2	0.5	
Pb	208	1	He	0.008	18.6	1467	4.2	1	
Al	27	1	He	10.841	4.9	17946	1.9	50	
Sb	123	1	He	0.680	13.8	4009	13.4	1	
B	11	2	NoGas	1.404	0.1	47042	1.1	20	
Be	9	2	NoGas	0.024	39.0	415	17.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2290767	1.11	2317135	98.86	30	120	
Sc	45	1	He	934537	0.23	926381	100.88	30	120	
Sc	45	2	NoGas	8971342	1.04	8695701	103.17	30	120	
Rh	103	1	He	2297935	0.59	2215799	103.71	30	120	
In	115	1	He	1399578	0.78	1382146	101.26	30	120	

Tb	159	1	He	3272484	0.30	3202579	102.18	30	120	
Ho	165	1	He	3275033	0.67	3234085	101.27	30	120	
Bi	209	1	He	2239025	1.05	2214527	101.11	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1912660
Data File Name	009CRIA.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:35:10-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.787	0.787	5.760	5838	6.89	1	78.7	69.5	130.5	
B	11	2	NoGas	17.428	17.428	0.484	111960	1.59	20	87.1	69.5	130.5	
Na	23	1	He	1078.969	1078.969	0.214	2156383	0.61	1000	107.9	69.5	130.5	
Mg	24	1	He	1057.858	1057.858	3.210	1182237	2.66	1000	105.8	69.5	130.5	
Al	27	1	He	37.151	37.151	1.803	34384	0.68	50	74.3	69.5	130.5	
K	39	1	He	1066.199	1066.199	1.777	1352529	1.22	1000	106.6	69.5	130.5	
Ca	44	1	He	1014.638	1014.638	1.598	63180	1.61	1000	101.5	69.5	130.5	
Ti	47	1	He	10.704	10.704	5.217	3642	4.70	10	107.0	69.5	130.5	
V	51	1	He	5.198	5.198	1.526	44885	1.69	5	104.0	69.5	130.5	
Cr	52	1	He	2.108	2.108	1.213	24664	0.59	2	105.4	69.5	130.5	
Mn	55	1	He	4.850	4.850	0.910	38854	0.36	5	97.0	69.5	130.5	
Fe	56	1	He	103.374	103.374	0.512	951467	0.61	100	103.4	69.5	130.5	
Co	59	1	He	1.086	1.086	0.449	14927	0.95	1	108.6	69.5	130.5	
Ni	60	1	He	2.061	2.061	3.508	7541	3.46	2	103.0	69.5	130.5	
Cu	63	1	He	2.146	2.146	1.158	22805	0.62	2	107.3	69.5	130.5	
Zn	66	1	He	21.571	21.571	0.135	41490	0.63	20	107.9	69.5	130.5	
As	75	1	He	5.087	5.087	1.237	7568	0.65	5	101.7	69.5	130.5	
Se	78	1	He	4.968	4.968	3.338	739	3.32	5	99.4	69.5	130.5	
Sr	88	1	He	10.390	10.390	1.157	94426	1.69	10	103.9	69.5	130.5	
Mo	95	1	He	10.467	10.467	1.542	41841	0.30	10	104.7	69.5	130.5	
Ag	107	1	He	1.059	1.059	1.327	13497	2.29	1	105.9	69.5	130.5	
Cd	111	1	He	1.064	1.064	3.084	3787	2.38	1	106.4	69.5	130.5	
Sn	118	1	He	9.782	9.782	1.586	57643	1.07	10	97.8	69.5	130.5	
Sb	123	1	He	2.186	2.186	2.111	12848	1.34	2	109.3	69.5	130.5	
Ba	137	1	He	5.011	5.011	1.647	13119	1.98	5	100.2	69.5	130.5	
W	182	1	He	9.921	9.921	2.679	110534	2.60	10	99.2	69.5	130.5	
Tl	205	1	He	2.053	2.053	2.031	54223	1.44	2	102.6	69.5	130.5	
Pb	208	1	He	1.062	1.062	3.386	38620	3.23	1	106.2	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2269965	1.33	2317135	97.96	30	120	
Sc	45	1	He	959280	0.54	926381	103.55	30	120	
Sc	45	2	NoGas	8996206	1.82	8695701	103.46	30	120	
Rh	103	1	He	2268975	1.50	2215799	102.40	30	120	
In	115	1	He	1414809	0.76	1382146	102.36	30	120	
Tb	159	1	He	3276087	0.89	3202579	102.30	30	120	
Ho	165	1	He	3292067	0.95	3234085	101.79	30	120	
Bi	209	1	He	2300802	1.77	2214527	103.90	30	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA-1912681
Data File Name	010ICSA.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:39:00-04:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.008	226.7	263	42.7	1	
B	11	45	2	NoGas	0.041	320.8	38366	1.7	20	
Na	23	45	1	He	48202.102	4.5	91178498	1.1	75200	
Mg	24	45	1	He	48579.973	3.2	52505703	1.8	75200	
Al	27	45	1	He	49438.521	4.1	29163803	1.1	75200	
K	39	45	1	He	48125.392	3.1	55584585	2.2	75200	
Ca	44	45	1	He	48777.631	3.6	2856237	1.5	75200	
Ti	47	45	1	He	974.052	3.6	320608	1.5	1505	
V	51	45	1	He	-0.003	-2345.0	492	124.0	4	
Cr	52	45	1	He	0.666	8.1	10393	3.0	4	
Mn	55	45	1	He	0.048	46.2	2598	6.6	4	
Fe	56	45	1	He	48400.105	4.0	425722845	1.2	75200	
Co	59	45	1	He	0.015	2.8	534	6.1	2	
Ni	60	45	1	He	-0.006	-270.5	638	3.2	4	
Cu	63	45	1	He	0.188	21.5	5607	1.5	4	
Zn	66	45	1	He	-0.031	-360.8	2560	3.1	10	
As	75	115	1	He	0.068	11.4	332	3.2	4	
Se	78	115	1	He	0.121	18.9	142	2.0	4	
Sr	88	45	1	He	0.289	1.5	3055	4.6	20	
Mo	95	103	1	He	1028.308	2.5	3756440	1.4	1505	
Ag	107	103	1	He	0.009	6.6	128	6.6	1	
Cd	111	115	1	He	0.139	14.2	1582	2.3	1	
Sn	118	115	1	He	0.159	41.7	3897	8.7	20	
Sb	123	115	1	He	0.147	12.3	860	10.9	1	
Ba	137	115	1	He	0.041	21.5	167	12.5	2	
W	182	159	1	He	0.413	8.7	7346	5.9	20	
Tl	205	165	1	He	0.006	35.5	552	9.6	1	
Pb	208	165	1	He	0.088	3.5	4178	3.1	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2022355	0.95	2317135	87.28	30	120	
Sc	45	1	He	933442	5.12	926381	100.76	30	120	
Sc	45	2	NoGas	8284792	0.97	8695701	95.27	30	120	
Rh	103	1	He	2076190	1.14	2215799	93.70	30	120	
In	115	1	He	1293120	0.31	1382146	93.56	30	120	
Tb	159	1	He	3135518	1.20	3202579	97.91	30	120	
Ho	165	1	He	3198581	0.63	3234085	98.90	30	120	
Bi	209	1	He	2129465	0.77	2214527	96.16	30	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB-1883162
Data File Name	011ICAB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:42:46-04:00
Sample Type	ICSAB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	2	NoGas	105.700	0.999	670129	0.64	100	105.7	79.5	120.5	
B	11	45	2	NoGas	106.220	0.985	435219	1.04	100	106.2	79.5	120.5	
Na	23	45	1	He	48463.377	1.962	89399576	1.86	50000	96.9	79.5	120.5	
Mg	24	45	1	He	48837.481	1.978	51449983	0.73	50000	97.7	79.5	120.5	
Al	27	45	1	He	49667.689	2.480	28564800	1.04	50000	99.3	79.5	120.5	
K	39	45	1	He	48422.725	3.482	54496142	0.96	50000	96.8	79.5	120.5	
Ca	44	45	1	He	49574.871	2.236	2829770	0.90	50000	99.1	79.5	120.5	
Ti	47	45	1	He	1089.044	2.071	349447	1.18	1100	99.0	79.5	120.5	
V	51	45	1	He	98.132	0.472	793669	2.15	100	98.1	79.5	120.5	
Cr	52	45	1	He	100.202	1.656	923420	0.99	100	100.2	79.5	120.5	
Mn	55	45	1	He	95.591	1.718	684531	1.03	100	95.6	79.5	120.5	
Fe	56	45	1	He	49254.530	2.523	422375228	1.26	50000	98.5	79.5	120.5	
Co	59	45	1	He	100.608	1.347	1279792	1.41	100	100.6	79.5	120.5	
Ni	60	45	1	He	100.368	1.503	317376	1.91	100	100.4	79.5	120.5	
Cu	63	45	1	He	100.383	1.729	831131	1.04	100	100.4	79.5	120.5	
Zn	66	45	1	He	101.296	1.853	175164	1.24	100	101.3	79.5	120.5	
As	75	115	1	He	101.278	1.440	131638	1.16	100	101.3	79.5	120.5	
Se	78	115	1	He	101.211	2.047	11128	1.32	100	101.2	79.5	120.5	
Sr	88	45	1	He	99.518	1.530	852588	1.13	100	99.5	79.5	120.5	
Mo	95	103	1	He	1180.852	2.204	4277903	1.95	1100	107.4	79.5	120.5	
Ag	107	103	1	He	100.893	2.513	1164890	0.86	100	100.9	79.5	120.5	
Cd	111	115	1	He	102.872	1.041	207682	0.36	100	102.9	79.5	120.5	
Sn	118	115	1	He	100.519	1.378	506859	0.75	100	100.5	79.5	120.5	
Sb	123	115	1	He	107.016	1.131	564825	0.60	100	107.0	79.5	120.5	
Ba	137	115	1	He	102.444	1.511	240971	0.66	100	102.4	79.5	120.5	
W	182	159	1	He	100.711	1.122	1058111	0.62	100	100.7	79.5	120.5	
Tl	205	165	1	He	103.841	2.251	2640687	1.30	100	103.8	79.5	120.5	
Pb	208	165	1	He	102.451	2.912	3505579	1.93	100	102.5	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2024312	0.73	2317135	87.36	30	120	
Sc	45	1	He	909159	2.62	926381	98.14	30	120	
Sc	45	2	NoGas	8313018	0.20	8695701	95.60	30	120	
Rh	103	1	He	2058868	1.69	2215799	92.92	30	120	
In	115	1	He	1278400	0.84	1382146	92.49	30	120	
Tb	159	1	He	3172426	0.90	3202579	99.06	30	120	
Ho	165	1	He	3193517	1.00	3234085	98.75	30	120	
Bi	209	1	He	2151181	0.65	2214527	97.14	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	012_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:46:29-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.663	2.842	322657	1.22	50	95.3	89.5	110.5	
B	11	45	2	NoGas	50.328	1.972	230957	0.86	50	100.7	89.5	110.5	
Na	23	45	1	He	25322.134	2.133	46877068	1.20	25000	101.3	89.5	110.5	
Mg	24	45	1	He	25485.043	3.079	26929164	0.86	25000	101.9	89.5	110.5	
Al	27	45	1	He	247.213	2.656	153812	0.97	250	98.9	89.5	110.5	
K	39	45	1	He	25417.227	3.559	28732183	0.72	25000	101.7	89.5	110.5	
Ca	44	45	1	He	25546.516	3.054	1463454	0.77	25000	102.2	89.5	110.5	
Ti	47	45	1	He	52.872	2.337	17033	1.12	50	105.7	89.5	110.5	
V	51	45	1	He	50.797	3.028	412167	0.44	50	101.6	89.5	110.5	
Cr	52	45	1	He	51.228	2.961	475424	0.46	50	102.5	89.5	110.5	
Mn	55	45	1	He	258.673	2.162	1854250	1.17	250	103.5	89.5	110.5	
Fe	56	45	1	He	12898.868	3.496	110940431	0.98	12500	103.2	89.5	110.5	
Co	59	45	1	He	51.591	3.187	658224	0.35	50	103.2	89.5	110.5	
Ni	60	45	1	He	51.696	3.238	164220	0.08	50	103.4	89.5	110.5	
Cu	63	45	1	He	52.394	2.880	436930	0.50	50	104.8	89.5	110.5	
Zn	66	45	1	He	51.663	2.301	90863	1.15	50	103.3	89.5	110.5	
As	75	115	1	He	50.912	0.732	68557	0.60	50	101.8	89.5	110.5	
Se	78	115	1	He	50.644	0.841	5825	0.67	50	101.3	89.5	110.5	
Sr	88	45	1	He	51.706	3.369	444439	0.80	50	103.4	89.5	110.5	
Mo	95	103	1	He	81.507	8.036	308602	7.52	50	163.0	89.5	110.5	CCV Failed
Ag	107	103	1	He	51.310	1.360	619299	0.85	50	102.6	89.5	110.5	
Cd	111	115	1	He	51.807	1.241	108824	1.16	50	103.6	89.5	110.5	
Sn	118	115	1	He	51.127	0.769	268171	0.73	50	102.3	89.5	110.5	
Sb	123	115	1	He	53.683	0.509	293060	0.36	50	107.4	89.5	110.5	
Ba	137	115	1	He	51.347	0.634	124946	0.48	50	102.7	89.5	110.5	
W	182	159	1	He	51.856	1.001	549573	0.18	50	103.7	89.5	110.5	
Tl	205	165	1	He	48.976	0.802	1274674	1.14	50	98.0	89.5	110.5	
Pb	208	165	1	He	49.702	0.868	1740894	1.03	50	99.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2161289	1.80	2317135	93.27	30	120	
Sc	45	1	He	912100	3.37	926381	98.46	30	120	
Sc	45	2	NoGas	8481630	0.79	8695701	97.54	30	120	
Rh	103	1	He	2151748	0.51	2215799	97.11	30	120	
In	115	1	He	1322026	0.15	1382146	95.65	30	120	
Tb	159	1	He	3191375	1.16	3202579	99.65	30	120	
Ho	165	1	He	3267304	0.37	3234085	101.03	30	120	
Bi	209	1	He	2186185	1.05	2214527	98.72	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	013_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T09:50:17-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.034	17.4	456	8.4	1	
B	11	45	2	NoGas	-0.439	-42.9	38389	1.0	20	
Na	23	45	1	He	10.171	18.9	71801	2.6	400	
Mg	24	45	1	He	1.290	52.9	7146	7.6	1000	
Al	27	45	1	He	1.248	61.6	11772	1.3	50	
K	39	45	1	He	9.428	34.4	92393	2.4	1000	
Ca	44	45	1	He	1.862	141.8	2058	4.9	1000	
Ti	47	45	1	He	0.192	58.5	77	45.4	20	
V	51	45	1	He	-0.020	-98.8	352	43.7	2	
Cr	52	45	1	He	0.001	1470.0	3977	0.4	2	
Mn	55	45	1	He	-0.050	-58.6	1810	9.0	2	
Fe	56	45	1	He	18.417	27.5	170017	23.1	50	
Co	59	45	1	He	-0.002	-16.3	297	2.2	1	
Ni	60	45	1	He	0.008	179.4	657	4.8	2	
Cu	63	45	1	He	0.072	34.7	4452	3.7	2	
Zn	66	45	1	He	0.126	91.9	2728	5.0	20	
As	75	115	1	He	0.020	37.4	285	3.8	2	
Se	78	115	1	He	0.022	158.6	140	2.8	2	
Sr	88	45	1	He	-0.008	-116.7	426	19.1	10	
Mo	95	103	1	He	5.312	5.7	21422	6.2	2	CCB Failed
Ag	107	103	1	He	0.005	31.3	92	23.5	0.2	
Cd	111	115	1	He	0.052	72.3	1498	5.3	0.2	
Sn	118	115	1	He	0.470	8.1	5835	3.7	10	
Sb	123	115	1	He	0.300	16.0	1790	15.5	1	
Ba	137	115	1	He	0.009	9.2	98	2.0	5	
W	182	159	1	He	1.371	17.0	18033	13.5	10	
Tl	205	165	1	He	0.055	19.8	1851	14.5	0.5	
Pb	208	165	1	He	0.010	46.0	1517	9.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2155125	1.17	2317135	93.01	30	120	
Sc	45	1	He	896842	2.41	926381	96.81	30	120	
Sc	45	2	NoGas	8696062	1.15	8695701	100.00	30	120	
Rh	103	1	He	2285409	0.73	2215799	103.14	30	120	
In	115	1	He	1378077	0.25	1382146	99.71	30	120	
Tb	159	1	He	3276378	1.43	3202579	102.30	30	120	
Ho	165	1	He	3261364	1.31	3234085	100.84	30	120	
Bi	209	1	He	2288682	0.64	2214527	103.35	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176229/1-a@2
Data File Name	014_Blk.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:06:29-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.010	50.8	289	11.5	1	
B	11	45	2	NoGas	1.089	10.8	43092	2.1	20	
Na	23	45	1	He	43.209	4.1	135935	1.9	400	
Mg	24	45	1	He	18.651	4.0	25964	2.4	1000	
Al	27	45	1	He	5.100	6.9	14389	2.6	50	
K	39	45	1	He	26.524	6.0	114799	3.1	1000	
Ca	44	45	1	He	64.835	3.7	5776	3.5	1000	
Ti	47	45	1	He	0.144	82.9	63	59.8	20	
V	51	45	1	He	0.229	32.3	2413	23.5	2	
Cr	52	45	1	He	1.770	3.2	20606	4.3	2	
Mn	55	45	1	He	0.094	28.3	2910	6.0	2	
Fe	56	45	1	He	12.103	2.6	120787	4.1	50	
Co	59	45	1	He	0.013	16.2	508	5.1	1	
Ni	60	45	1	He	0.179	8.4	1226	4.9	2	
Cu	63	45	1	He	2.878	16.0	28148	15.7	2	Blank Failed
Zn	66	45	1	He	4.368	3.2	10160	0.9	20	
As	75	115	1	He	0.235	8.3	578	5.0	2	
Se	78	115	1	He	0.058	234.6	142	10.2	2	
Sr	88	45	1	He	0.242	6.0	2615	3.2	10	
Mo	95	103	1	He	1.147	1.9	4603	2.5	2	
Ag	107	103	1	He	0.003	10.8	66	5.9	0.2	
Cd	111	115	1	He	0.045	54.3	1463	2.9	0.2	
Sn	118	115	1	He	17.131	2.4	94543	1.6	10	Blank Failed
Sb	123	115	1	He	0.142	18.0	881	17.4	1	
Ba	137	115	1	He	0.460	7.1	1225	6.8	5	
W	182	159	1	He	0.235	10.3	5679	5.4	10	
Tl	205	165	1	He	0.046	15.1	1601	10.5	0.5	
Pb	208	165	1	He	0.238	6.2	9525	4.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2118406	0.24	2317135	91.42	30	120	
Sc	45	1	He	924101	1.91	926381	99.75	30	120	
Sc	45	2	NoGas	8445529	1.03	8695701	97.12	30	120	
Rh	103	1	He	2253453	1.14	2215799	101.70	30	120	
In	115	1	He	1359407	1.09	1382146	98.35	30	120	
Tb	159	1	He	3235036	0.92	3202579	101.01	30	120	
Ho	165	1	He	3272699	2.17	3234085	101.19	30	120	
Bi	209	1	He	2362858	1.43	2214527	106.70	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176229/2-a@2
Data File Name	015LCSS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:10:18-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	483.226	483.226	0.989	3077516	1.32	500	96.6	78.6	110.5	
B	11	2	NoGas	55.274	55.274	0.610	241325	0.32	50	110.5	79.5	120.5	
Na	23	1	He	5001.445	5001.445	0.340	8824793	0.67	5000	100.0	79.5	120.5	
Mg	24	1	He	5014.975	5014.975	0.705	5032441	0.23	5000	100.3	79.5	120.5	
Al	27	1	He	4977.854	4977.854	0.494	2734009	0.32	5000	99.6	79.5	120.5	
K	39	1	He	4975.685	4975.685	1.502	5400773	0.92	5000	99.5	79.5	120.5	
Ca	44	1	He	4540.639	4540.639	0.607	248356	0.62	5000	90.8	79.5	120.5	
Ti	47	1	He	48.469	48.469	2.409	14813	1.82	50	96.9	79.5	120.5	
V	51	1	He	503.058	503.058	0.529	3868722	1.19	500	100.6	71.5	110.5	
Cr	52	1	He	514.912	514.912	1.563	4499183	1.03	500	103.0	69.5	110.5	
Mn	55	1	He	499.857	499.857	0.996	3397475	1.79	500	100.0	79.5	120.5	
Fe	56	1	He	5069.606	5069.606	1.613	41382715	1.36	5000	101.4	79.5	120.5	
Co	59	1	He	511.709	511.709	0.471	6192371	1.27	500	102.3	73.9	110.5	
Ni	60	1	He	533.975	533.975	1.836	1603964	2.29	500	106.8	74.9	110.5	
Cu	63	1	He	536.185	536.185	0.982	4207992	0.64	500	107.2	72.6	110.5	
Zn	66	1	He	512.452	512.452	0.486	833351	0.52	500	102.5	71.5	113.4	
As	75	1	He	465.664	465.664	0.482	600224	0.35	500	93.1	73.4	110.5	
Se	78	1	He	465.821	465.821	0.291	50410	0.27	500	93.2	64.6	110.5	
Sr	88	1	He	521.377	521.377	1.115	4248437	1.87	500	104.3	79.5	120.5	
Mo	95	1	He	52.222	52.222	0.983	198622	0.83	50	104.4	29.5	140.5	
Ag	107	1	He	51.116	51.116	0.321	619558	0.32	50	102.2	59.5	114.5	
Cd	111	1	He	505.308	505.308	0.287	1008115	0.10	500	101.1	73.5	110.5	
Sn	118	1	He	557.259	557.259	0.856	2776822	0.76	500	111.5	79.5	120.5	
Sb	123	1	He	48.860	48.860	0.994	256142	0.79	50	97.7	67.5	113.4	
Ba	137	1	He	486.518	486.518	0.722	1136290	0.52	500	97.3	69.5	110.5	
W	182	1	He	49.810	49.810	0.998	526257	1.53	50	99.6	74.6	125.4	
Tl	205	1	He	130.227	130.227	2.409	3315137	1.30	125	104.2	70.6	110.5	
Pb	208	1	He	519.804	519.804	1.469	17802691	0.38	500	104.0	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2033885	0.34	2317135	87.78	30	120	
Sc	45	1	He	864871	0.80	926381	93.36	30	120	
Sc	45	2	NoGas	8192947	0.53	8695701	94.22	30	120	
Rh	103	1	He	2160753	0.42	2215799	97.52	30	120	
In	115	1	He	1269532	0.21	1382146	91.85	30	120	
Tb	159	1	He	3180451	0.87	3202579	99.31	30	120	
Ho	165	1	He	3197042	1.09	3234085	98.85	30	120	
Bi	209	1	He	2242107	1.54	2214527	101.25	30	120	

Sample Report

Sample Table

Sample Name	680-111256-a-2-e@2
Data File Name	016SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:14:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	6.940	6.940	0.76	48264	0.01	10000	
B	11	45	2	NoGas	55.257	55.257	1.65	313274	0.02	300	
Na	23	45	1	He	11320.466	11320.466	2.40	25751332	0.04	500000	
Mg	24	45	1	He	17452.639	17452.639	1.75	22636244	0.08	500000	
Al	27	45	1	He	144418.990	144418.990	1.55	102220216	0.14	200000	
K	39	45	1	He	8103.486	8103.486	2.17	11313214	0.07	500000	
Ca	44	45	1	He	8914.352	8914.352	1.88	628344	1.42	500000	
Ti	47	45	1	He	1385.727	1385.727	1.32	547325	0.25	2500	
V	51	45	1	He	360.421	360.421	1.04	3585907	0.01	10000	
Cr	52	45	1	He	245.010	245.010	2.46	2771716	0.01	10000	
Mn	55	45	1	He	1571.610	1571.610	1.07	13811869	0.01	10000	
Fe	56	45	1	He	189954.903	189954.903	1.24	2005219689	0.01	200000	
Co	59	45	1	He	32.944	32.944	1.83	516033	0.01	10000	
Ni	60	45	1	He	67.516	67.516	1.68	263007	0.03	10000	
Cu	63	45	1	He	108.640	108.640	2.10	1106699	0.01	10000	
Zn	66	45	1	He	327.604	327.604	1.97	690244	0.05	10000	
As	75	115	1	He	83.477	83.477	0.42	112026	0.07	10000	
Se	78	115	1	He	9.292	9.292	4.24	1174	0.79	10000	
Sr	88	45	1	He	165.859	165.859	2.06	1748413	0.01	10000	
Mo	95	103	1	He	9.893	9.893	1.93	37548	0.03	2000	
Ag	107	103	1	He	0.724	0.724	1.68	8775	0.01	300	
Cd	111	115	1	He	1.754	1.754	2.99	4959	0.04	4000	
Sn	118	115	1	He	30.879	30.879	1.18	162886	0.02	2000	
Sb	123	115	1	He	1.836	1.836	1.16	10078	0.02	300	
Ba	137	115	1	He	308.688	308.688	0.28	749290	0.04	10000	
W	182	159	1	He	0.883	0.883	3.40	13336	0.01	2500	
Tl	205	165	1	He	1.281	1.281	0.98	35790	0.00	5000	
Pb	208	165	1	He	253.660	253.660	1.37	9415739	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2210673	2.22	2317135	95.41	30	120	
Sc	45	1	He	1118928	1.74	926381	120.78	30	120	ISTD Failed
Sc	45	2	NoGas	10638924	0.83	8695701	122.35	30	120	ISTD Failed
Rh	103	1	He	2154450	2.18	2215799	97.23	30	120	
In	115	1	He	1319383	0.79	1382146	95.46	30	120	
Tb	159	1	He	3424898	0.85	3202579	106.94	30	120	
Ho	165	1	He	3464815	1.32	3234085	107.13	30	120	
Bi	209	1	He	2209880	1.69	2214527	99.79	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176229/1-a@2
Data File Name	017_Blk.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:18:26-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.072	14.8	704	10.2	1	
B	11	45	2	NoGas	0.847	16.0	43266	0.6	20	
Na	23	45	1	He	39.387	4.9	126052	2.6	400	
Mg	24	45	1	He	18.244	7.4	24981	4.6	1000	
Al	27	45	1	He	15.928	25.2	20265	10.5	50	
K	39	45	1	He	17.987	12.7	102781	1.5	1000	
Ca	44	45	1	He	68.978	1.2	5888	0.9	1000	
Ti	47	45	1	He	1.292	21.2	428	19.1	20	
V	51	45	1	He	0.220	47.6	2303	38.4	2	
Cr	52	45	1	He	1.445	0.9	17197	2.2	2	
Mn	55	45	1	He	0.227	18.5	3792	7.0	2	
Fe	56	45	1	He	48.587	27.7	429024	26.1	50	
Co	59	45	1	He	0.015	47.7	526	17.5	1	
Ni	60	45	1	He	0.213	2.8	1306	1.1	2	
Cu	63	45	1	He	1.433	4.3	15655	3.7	2	
Zn	66	45	1	He	4.805	2.7	10686	0.8	20	
As	75	115	1	He	0.253	4.3	601	4.1	2	
Se	78	115	1	He	0.163	55.5	154	7.6	2	
Sr	88	45	1	He	0.235	6.6	2507	6.8	10	
Mo	95	103	1	He	0.333	6.1	1389	6.2	2	
Ag	107	103	1	He	0.002	32.4	54	17.7	0.2	
Cd	111	115	1	He	0.047	63.1	1464	4.9	0.2	
Sn	118	115	1	He	16.769	1.0	92305	2.4	10	Blank Failed
Sb	123	115	1	He	0.135	6.5	834	4.3	1	
Ba	137	115	1	He	0.528	0.4	1388	2.0	5	
W	182	159	1	He	0.153	25.3	4853	8.7	10	
Tl	205	165	1	He	0.044	18.5	1575	12.3	0.5	
Pb	208	165	1	He	0.197	6.8	8152	4.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2118913	2.54	2317135	91.45	30	120	
Sc	45	1	He	904504	1.59	926381	97.64	30	120	
Sc	45	2	NoGas	8666097	1.25	8695701	99.66	30	120	
Rh	103	1	He	2276089	0.56	2215799	102.72	30	120	
In	115	1	He	1354604	1.66	1382146	98.01	30	120	
Tb	159	1	He	3268760	1.66	3202579	102.07	30	120	
Ho	165	1	He	3304122	1.40	3234085	102.17	30	120	
Bi	209	1	He	2264909	1.30	2214527	102.28	30	120	

Sample Report

Sample Table

Sample Name	680-111256-a-3-d@2
Data File Name	018SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:22:19-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	8.584	8.584	1.64	59997	0.01	10000	
B	11	45	2	NoGas	69.253	69.253	0.11	406058	0.02	300	
Na	23	45	1	He	14824.853	14824.853	3.16	36593457	0.04	500000	
Mg	24	45	1	He	20325.771	20325.771	3.45	28619118	0.07	500000	
Al	27	45	1	He	169400.525	169400.525	3.86	130149679	0.13	200000	
K	39	45	1	He	9140.641	9140.641	4.09	13838549	0.07	500000	
Ca	44	45	1	He	13355.178	13355.178	2.78	1020821	1.31	500000	
Ti	47	45	1	He	1493.394	1493.394	3.36	640347	0.23	2500	
V	51	45	1	He	430.174	430.174	1.85	4647622	0.01	10000	
Cr	52	45	1	He	285.150	285.150	2.09	3502688	0.01	10000	
Mn	55	45	1	He	1505.082	1505.082	2.62	14362196	0.01	10000	
Fe	56	45	1	He	229665.185	229665.185	1.52	2633098278	0.01	200000	>LDR
Co	59	45	1	He	36.176	36.176	2.57	615279	0.01	10000	
Ni	60	45	1	He	80.182	80.182	3.61	338924	0.02	10000	
Cu	63	45	1	He	138.264	138.264	4.51	1527370	0.01	10000	
Zn	66	45	1	He	389.349	389.349	2.65	890131	0.04	10000	
As	75	115	1	He	98.344	98.344	0.32	134549	0.07	10000	
Se	78	115	1	He	11.699	11.699	2.21	1472	0.79	10000	
Sr	88	45	1	He	225.276	225.276	3.50	2577992	0.01	10000	
Mo	95	103	1	He	12.686	12.686	1.73	49471	0.03	2000	
Ag	107	103	1	He	0.979	0.979	1.96	12181	0.01	300	
Cd	111	115	1	He	2.284	2.284	4.08	6176	0.04	4000	
Sn	118	115	1	He	35.994	35.994	1.04	193099	0.02	2000	
Sb	123	115	1	He	2.519	2.519	1.09	14069	0.02	300	
Ba	137	115	1	He	399.015	399.015	0.39	987737	0.04	10000	
W	182	159	1	He	0.703	0.703	6.34	11623	0.01	2500	
Tl	205	165	1	He	1.494	1.494	0.44	42700	0.00	5000	
Pb	208	165	1	He	352.306	352.306	1.53	13404723	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2223717	0.60	2317135	95.97	30	120	
Sc	45	1	He	1215455	3.39	926381	131.20	30	120	ISTD Failed
Sc	45	2	NoGas	11361950	0.90	8695701	130.66	30	120	ISTD Failed
Rh	103	1	He	2214017	1.43	2215799	99.92	30	120	
In	115	1	He	1345540	0.40	1382146	97.35	30	120	
Tb	159	1	He	3524421	1.58	3202579	110.05	30	120	
Ho	165	1	He	3551892	1.77	3234085	109.83	30	120	
Bi	209	1	He	2243264	0.32	2214527	101.30	30	120	

Sample Report

Sample Table

Sample Name	680-111256-a-4-d@2
Data File Name	019SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:26:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	8.489	8.489	0.86	58667	0.01	10000	
B	11	45	2	NoGas	71.762	71.762	0.83	414367	0.02	300	
Na	23	45	1	He	15541.797	15541.797	0.59	36923385	0.04	500000	
Mg	24	45	1	He	21028.974	21028.974	1.14	28502557	0.07	500000	
Al	27	45	1	He	163925.094	163925.094	1.50	121249862	0.14	200000	
K	39	45	1	He	9764.774	9764.774	1.09	14225300	0.07	500000	
Ca	44	45	1	He	14859.725	14859.725	0.35	1092916	1.36	500000	
Ti	47	45	1	He	1541.888	1541.888	0.39	636408	0.24	2500	
V	51	45	1	He	427.244	427.244	0.37	4441514	0.01	10000	
Cr	52	45	1	He	268.620	268.620	0.38	3175510	0.01	10000	
Mn	55	45	1	He	1802.346	1802.346	0.98	16551735	0.01	10000	
Fe	56	45	1	He	195946.084	195946.084	0.77	2161533852	0.01	200000	
Co	59	45	1	He	39.366	39.366	0.09	644341	0.01	10000	
Ni	60	45	1	He	77.281	77.281	0.35	314491	0.02	10000	
Cu	63	45	1	He	133.305	133.305	4.09	1418138	0.01	10000	
Zn	66	45	1	He	405.998	405.998	0.56	893197	0.05	10000	
As	75	115	1	He	85.675	85.675	0.22	117015	0.07	10000	
Se	78	115	1	He	11.765	11.765	1.58	1477	0.80	10000	
Sr	88	45	1	He	247.769	247.769	0.93	2729331	0.01	10000	
Mo	95	103	1	He	11.135	11.135	2.20	43140	0.03	2000	
Ag	107	103	1	He	0.959	0.959	4.44	11849	0.01	300	
Cd	111	115	1	He	2.562	2.562	3.88	6750	0.04	4000	
Sn	118	115	1	He	34.244	34.244	1.82	183504	0.02	2000	
Sb	123	115	1	He	1.929	1.929	1.80	10775	0.02	300	
Ba	137	115	1	He	372.205	372.205	0.46	919530	0.04	10000	
W	182	159	1	He	0.677	0.677	2.42	11323	0.01	2500	
Tl	205	165	1	He	1.385	1.385	1.55	40347	0.00	5000	
Pb	208	165	1	He	334.789	334.789	1.44	12975616	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2198706	1.12	2317135	94.89	30	120	
Sc	45	1	He	1169109	0.24	926381	126.20	30	120	ISTD Failed
Sc	45	2	NoGas	11240243	1.86	8695701	129.26	30	120	ISTD Failed
Rh	103	1	He	2198971	0.37	2215799	99.24	30	120	
In	115	1	He	1342844	0.05	1382146	97.16	30	120	
Tb	159	1	He	3523219	1.58	3202579	110.01	30	120	
Ho	165	1	He	3617757	1.13	3234085	111.86	30	120	
Bi	209	1	He	2247902	0.99	2214527	101.51	30	120	

Sample Report

Sample Table

Sample Name	680-111256-a-3-d@5
Data File Name	020SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:32:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.447	3.447	1.38	24435	0.01	10000	
B	11	45	2	NoGas	31.225	31.225	0.11	192297	0.02	300	
Na	23	45	1	He	6813.965	6813.965	5.44	15670236	0.04	500000	
Mg	24	45	1	He	9371.644	9371.644	3.73	12277045	0.08	500000	
Al	27	45	1	He	78205.013	78205.013	4.76	55876076	0.14	200000	
K	39	45	1	He	4223.065	4223.065	5.28	5999842	0.07	500000	
Ca	44	45	1	He	6141.236	6141.236	4.68	437724	1.40	500000	
Ti	47	45	1	He	685.139	685.139	4.55	273167	0.25	2500	
V	51	45	1	He	201.087	201.087	5.90	2018712	0.01	10000	
Cr	52	45	1	He	132.457	132.457	4.54	1515136	0.01	10000	
Mn	55	45	1	He	692.989	692.989	3.96	6150153	0.01	10000	
Fe	56	45	1	He	106096.941	106096.941	4.59	1130495351	0.01	200000	
Co	59	45	1	He	16.824	16.824	4.19	266254	0.01	10000	
Ni	60	45	1	He	37.370	37.370	4.51	147309	0.03	10000	
Cu	63	45	1	He	61.962	61.962	4.26	639358	0.01	10000	
Zn	66	45	1	He	184.626	184.626	4.11	394132	0.05	10000	
As	75	115	1	He	39.561	39.561	0.48	57488	0.07	10000	
Se	78	115	1	He	4.715	4.715	3.27	713	0.66	10000	
Sr	88	45	1	He	94.772	94.772	4.63	1008769	0.01	10000	
Mo	95	103	1	He	4.964	4.964	0.72	20441	0.02	2000	
Ag	107	103	1	He	0.373	0.373	4.49	4901	0.01	300	
Cd	111	115	1	He	0.937	0.937	2.72	3530	0.03	4000	
Sn	118	115	1	He	14.165	14.165	0.78	82555	0.02	2000	
Sb	123	115	1	He	0.992	0.992	5.28	5922	0.02	300	
Ba	137	115	1	He	159.302	159.302	0.56	417710	0.04	10000	
W	182	159	1	He	0.306	0.306	2.47	6943	0.00	2500	
Tl	205	165	1	He	0.631	0.631	3.52	18100	0.00	5000	
Pb	208	165	1	He	147.158	147.158	1.16	5538687	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2242003	1.21	2317135	96.76	30	120	
Sc	45	1	He	1131139	5.46	926381	122.10	30	120	ISTD Failed
Sc	45	2	NoGas	10312572	0.74	8695701	118.59	30	120	
Rh	103	1	He	2333773	0.49	2215799	105.32	30	120	
In	115	1	He	1425127	0.61	1382146	103.11	30	120	
Tb	159	1	He	3490989	0.62	3202579	109.01	30	120	
Ho	165	1	He	3512573	0.67	3234085	108.61	30	120	
Bi	209	1	He	2338059	0.38	2214527	105.58	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	021_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:36:22-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.038	0.702	329906	1.03	50	96.1	89.5	110.5	
B	11	45	2	NoGas	48.853	3.338	239843	1.31	50	97.7	89.5	110.5	
Na	23	45	1	He	25533.948	0.945	49829954	1.83	25000	102.1	89.5	110.5	
Mg	24	45	1	He	25605.429	1.619	28524819	1.40	25000	102.4	89.5	110.5	
Al	27	45	1	He	247.867	0.167	162573	2.43	250	99.1	89.5	110.5	
K	39	45	1	He	25398.313	1.586	30272425	1.30	25000	101.6	89.5	110.5	
Ca	44	45	1	He	25688.809	1.765	1551365	0.73	25000	102.8	89.5	110.5	
Ti	47	45	1	He	52.158	1.202	17713	1.68	50	104.3	89.5	110.5	
V	51	45	1	He	51.396	1.496	439649	0.87	50	102.8	89.5	110.5	
Cr	52	45	1	He	51.701	1.881	505773	0.85	50	103.4	89.5	110.5	
Mn	55	45	1	He	259.114	0.933	1958202	2.33	250	103.6	89.5	110.5	
Fe	56	45	1	He	12874.359	1.173	116751369	1.10	12500	103.0	89.5	110.5	
Co	59	45	1	He	51.860	1.164	697621	1.32	50	103.7	89.5	110.5	
Ni	60	45	1	He	52.030	1.619	174258	1.48	50	104.1	89.5	110.5	
Cu	63	45	1	He	52.793	1.532	464099	0.90	50	105.6	89.5	110.5	
Zn	66	45	1	He	51.716	2.397	95858	0.21	50	103.4	89.5	110.5	
As	75	115	1	He	50.515	0.825	71669	1.30	50	101.0	89.5	110.5	
Se	78	115	1	He	49.585	1.578	6011	1.35	50	99.2	89.5	110.5	
Sr	88	45	1	He	51.410	1.949	465870	0.39	50	102.8	89.5	110.5	
Mo	95	103	1	He	50.266	3.066	202687	0.94	50	100.5	89.5	110.5	
Ag	107	103	1	He	50.650	0.623	651079	1.63	50	101.3	89.5	110.5	
Cd	111	115	1	He	51.481	0.524	113940	1.02	50	103.0	89.5	110.5	
Sn	118	115	1	He	50.156	1.272	277232	1.70	50	100.3	89.5	110.5	
Sb	123	115	1	He	52.575	0.641	302370	0.42	50	105.1	89.5	110.5	
Ba	137	115	1	He	50.375	1.275	129150	1.79	50	100.7	89.5	110.5	
W	182	159	1	He	49.739	0.954	558628	0.32	50	99.5	89.5	110.5	
Tl	205	165	1	He	48.548	1.582	1323224	1.46	50	97.1	89.5	110.5	
Pb	208	165	1	He	49.281	1.491	1807702	1.39	50	98.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2191928	0.94	2317135	94.60	30	120	
Sc	45	1	He	961148	2.27	926381	103.75	30	120	
Sc	45	2	NoGas	9029568	1.61	8695701	103.84	30	120	
Rh	103	1	He	2291782	2.25	2215799	103.43	30	120	
In	115	1	He	1392792	0.62	1382146	100.77	30	120	
Tb	159	1	He	3381119	1.05	3202579	105.57	30	120	
Ho	165	1	He	3421725	0.13	3234085	105.80	30	120	
Bi	209	1	He	2268413	0.88	2214527	102.43	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	022_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:40:08-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.032	40.6	463	21.5	1	
B	11	45	2	NoGas	-1.161	-2.4	37264	0.5	20	
Na	23	45	1	He	4.893	26.8	64722	2.3	400	
Mg	24	45	1	He	-0.179	-191.6	5853	4.8	1000	
Al	27	45	1	He	2.967	36.7	13258	3.3	50	
K	39	45	1	He	1.624	145.3	87115	2.3	1000	
Ca	44	45	1	He	-0.870	-249.2	1982	4.9	1000	
Ti	47	45	1	He	0.138	26.5	62	20.3	20	
V	51	45	1	He	0.034	167.3	815	56.7	2	
Cr	52	45	1	He	0.019	152.0	4305	4.7	2	
Mn	55	45	1	He	0.002	955.4	2265	5.8	2	
Fe	56	45	1	He	24.413	17.6	229838	14.8	50	
Co	59	45	1	He	0.000	-917.4	333	16.5	1	
Ni	60	45	1	He	-0.030	-32.2	561	6.5	2	
Cu	63	45	1	He	0.148	14.3	5273	2.6	2	
Zn	66	45	1	He	0.146	59.1	2874	4.2	20	
As	75	115	1	He	0.010	61.5	285	3.6	2	
Se	78	115	1	He	-0.010	-384.4	142	3.1	2	
Sr	88	45	1	He	-0.004	-97.8	480	6.2	10	
Mo	95	103	1	He	1.006	20.7	4297	20.4	2	
Ag	107	103	1	He	0.005	46.1	93	34.4	0.2	
Cd	111	115	1	He	0.046	7.1	1552	0.5	0.2	
Sn	118	115	1	He	0.510	44.9	6317	19.9	10	
Sb	123	115	1	He	0.207	10.7	1313	10.0	1	
Ba	137	115	1	He	0.017	51.7	122	19.2	5	
W	182	159	1	He	1.100	18.9	15649	14.3	10	
Tl	205	165	1	He	0.043	29.8	1585	21.7	0.5	
Pb	208	165	1	He	0.016	15.9	1788	5.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2242221	1.94	2317135	96.77	30	120	
Sc	45	1	He	932727	1.50	926381	100.69	30	120	
Sc	45	2	NoGas	9109462	0.60	8695701	104.76	30	120	
Rh	103	1	He	2396161	1.48	2215799	108.14	30	120	
In	115	1	He	1439839	0.49	1382146	104.17	30	120	
Tb	159	1	He	3395566	0.98	3202579	106.03	30	120	
Ho	165	1	He	3407859	0.29	3234085	105.37	30	120	
Bi	209	1	He	2332091	1.24	2214527	105.31	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1912660
Data File Name	023CRIA.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:43:57-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.761	0.761	8.619	5683	8.70	1	76.1	69.5	130.5	
B	11	2	NoGas	12.834	12.834	4.936	100916	2.85	20	64.2	69.5	130.5	6020A CR1 Failed
Na	23	1	He	1053.721	1053.721	1.763	2130981	2.11	1000	105.4	69.5	130.5	
Mg	24	1	He	1030.730	1030.730	1.114	1165206	1.82	1000	103.1	69.5	130.5	
Al	27	1	He	36.669	36.669	1.488	34476	0.96	50	73.3	69.5	130.5	
K	39	1	He	1079.341	1079.341	0.649	1383598	1.39	1000	107.9	69.5	130.5	
Ca	44	1	He	997.593	997.593	0.718	62851	0.72	1000	99.8	69.5	130.5	
Ti	47	1	He	10.237	10.237	4.875	3523	4.30	10	102.4	69.5	130.5	
V	51	1	He	5.327	5.327	3.722	46512	4.65	5	106.5	69.5	130.5	
Cr	52	1	He	2.077	2.077	0.680	24634	0.71	2	103.8	69.5	130.5	
Mn	55	1	He	4.841	4.841	0.593	39220	1.27	5	96.8	69.5	130.5	
Fe	56	1	He	107.371	107.371	0.325	998777	1.36	100	107.4	69.5	130.5	
Co	59	1	He	1.080	1.080	2.036	15005	1.90	1	108.0	69.5	130.5	
Ni	60	1	He	2.163	2.163	3.828	7971	4.58	2	108.2	69.5	130.5	
Cu	63	1	He	2.189	2.189	1.449	23432	1.39	2	109.4	69.5	130.5	
Zn	66	1	He	21.944	21.944	1.806	42634	1.80	20	109.7	69.5	130.5	
As	75	1	He	5.089	5.089	2.190	7768	2.05	5	101.8	69.5	130.5	
Se	78	1	He	4.937	4.937	2.359	754	1.77	5	98.7	69.5	130.5	
Sr	88	1	He	10.399	10.399	0.308	95563	1.17	10	104.0	69.5	130.5	
Mo	95	1	He	10.483	10.483	2.176	43488	1.43	10	104.8	69.5	130.5	
Ag	107	1	He	1.060	1.060	1.646	14022	2.31	1	106.0	69.5	130.5	
Cd	111	1	He	1.110	1.110	6.632	3989	4.32	1	111.0	69.5	130.5	
Sn	118	1	He	9.658	9.658	0.778	58431	0.81	10	96.6	69.5	130.5	
Sb	123	1	He	2.102	2.102	1.593	12679	1.45	2	105.1	69.5	130.5	
Ba	137	1	He	5.041	5.041	3.318	13538	3.29	5	100.8	69.5	130.5	
W	182	1	He	9.794	9.794	2.819	112995	1.96	10	97.9	69.5	130.5	
Tl	205	1	He	2.041	2.041	1.479	55788	1.52	2	102.1	69.5	130.5	
Pb	208	1	He	1.046	1.046	1.008	39375	1.10	1	104.6	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2283481	2.18	2317135	98.55	30	120	
Sc	45	1	He	970071	1.11	926381	104.72	30	120	
Sc	45	2	NoGas	9721868	1.33	8695701	111.80	30	120	
Rh	103	1	He	2354590	0.79	2215799	106.26	30	120	
In	115	1	He	1451427	0.13	1382146	105.01	30	120	
Tb	159	1	He	3391603	0.80	3202579	105.90	30	120	
Ho	165	1	He	3405445	0.62	3234085	105.30	30	120	
Bi	209	1	He	2323255	1.06	2214527	104.91	30	120	

Sample Report

Sample Table

Sample Name	240-49193-b-17-a@2
Data File Name	024SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:47:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.168	1.168	1.32	7372	0.02	10000	
B	11	45	2	NoGas	40.232	40.232	1.05	187865	0.02	300	
Na	23	45	1	He	710.354	710.354	3.50	1380429	0.05	500000	
Mg	24	45	1	He	10350.591	10350.591	2.81	11045522	0.09	500000	
Al	27	45	1	He	22572.977	22572.977	3.33	13150105	0.17	200000	
K	39	45	1	He	6936.162	6936.162	3.95	7976032	0.09	500000	
Ca	44	45	1	He	1441656.775	1441656.775	3.38	83256576	1.73	500000	>LDR
Ti	47	45	1	He	902.598	902.598	2.83	293249	0.31	2500	
V	51	45	1	He	89.648	89.648	2.79	733983	0.01	10000	
Cr	52	45	1	He	43.547	43.547	2.84	408626	0.01	10000	
Mn	55	45	1	He	1083.734	1083.734	3.25	7833803	0.01	10000	
Fe	56	45	1	He	34681.067	34681.067	2.71	301152850	0.01	200000	
Co	59	45	1	He	11.237	11.237	2.55	145015	0.01	10000	
Ni	60	45	1	He	32.418	32.418	2.97	104213	0.03	10000	
Cu	63	45	1	He	15.791	15.791	3.06	135719	0.01	10000	
Zn	66	45	1	He	120.316	120.316	2.95	210160	0.06	10000	
As	75	115	1	He	21.426	21.426	0.58	26288	0.08	10000	
Se	78	115	1	He	1.994	1.994	5.12	323	0.62	10000	
Sr	88	45	1	He	1221.478	1221.478	2.50	10590120	0.01	10000	
Mo	95	103	1	He	3.899	3.899	1.07	13065	0.03	2000	
Ag	107	103	1	He	0.065	0.065	13.72	708	0.01	300	
Cd	111	115	1	He	0.944	0.944	1.00	2982	0.03	4000	
Sn	118	115	1	He	16.704	16.704	0.29	81364	0.02	2000	
Sb	123	115	1	He	0.473	0.473	4.40	2412	0.02	300	
Ba	137	115	1	He	321.245	321.245	0.14	708373	0.05	10000	
W	182	159	1	He	1.025	1.025	2.85	13247	0.01	2500	
Tl	205	165	1	He	0.275	0.275	1.05	7235	0.00	5000	
Pb	208	165	1	He	34.124	34.124	1.43	1144710	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1958756	0.68	2317135	84.53	30	120	
Sc	45	1	He	920808	3.37	926381	99.40	30	120	
Sc	45	2	NoGas	8277629	0.84	8695701	95.19	30	120	
Rh	103	1	He	1897629	0.36	2215799	85.64	30	120	
In	115	1	He	1198566	0.13	1382146	86.72	30	120	
Tb	159	1	He	3036011	0.23	3202579	94.80	30	120	
Ho	165	1	He	3128394	0.77	3234085	96.73	30	120	
Bi	209	1	He	1916372	0.46	2214527	86.54	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49193-b-17-a@10
Data File Name	025SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:51:33-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.243	0.243	8.07	1815	0.01	10000	
B	11	45	2	NoGas	8.522	8.522	4.51	71645	0.01	300	
Na	23	45	1	He	149.154	149.154	0.76	324709	0.05	500000	
Mg	24	45	1	He	2349.327	2349.327	1.32	2448257	0.10	500000	
Al	27	45	1	He	5007.632	5007.632	1.20	2852467	0.18	200000	
K	39	45	1	He	1557.119	1557.119	1.18	1809270	0.09	500000	
Ca	44	45	1	He	315844.747	315844.747	1.08	17782709	1.78	500000	
Ti	47	45	1	He	196.300	196.300	1.43	62174	0.32	2500	
V	51	45	1	He	19.694	19.694	2.27	157577	0.01	10000	
Cr	52	45	1	He	9.675	9.675	2.66	91576	0.01	10000	
Mn	55	45	1	He	248.964	248.964	1.45	1755909	0.01	10000	
Fe	56	45	1	He	7861.799	7861.799	0.73	66553062	0.01	200000	
Co	59	45	1	He	2.561	2.561	1.23	32473	0.01	10000	
Ni	60	45	1	He	7.358	7.358	1.07	23544	0.03	10000	
Cu	63	45	1	He	3.720	3.720	3.10	34117	0.01	10000	
Zn	66	45	1	He	29.042	29.042	0.63	51358	0.06	10000	
As	75	115	1	He	4.133	4.133	2.70	5722	0.07	10000	
Se	78	115	1	He	0.372	0.372	18.37	171	0.22	10000	
Sr	88	45	1	He	285.299	285.299	0.83	2411069	0.01	10000	
Mo	95	103	1	He	0.744	0.744	4.69	2861	0.03	2000	
Ag	107	103	1	He	0.013	0.013	8.87	178	0.01	300	
Cd	111	115	1	He	0.236	0.236	3.30	1797	0.01	4000	
Sn	118	115	1	He	3.247	3.247	2.39	19749	0.02	2000	
Sb	123	115	1	He	0.114	0.114	7.49	694	0.02	300	
Ba	137	115	1	He	65.528	65.528	1.32	157494	0.04	10000	
W	182	159	1	He	0.241	0.241	12.22	5727	0.00	2500	
Tl	205	165	1	He	0.057	0.057	2.37	1910	0.00	5000	
Pb	208	165	1	He	7.486	7.486	0.95	264621	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2091277	1.83	2317135	90.25	30	120	
Sc	45	1	He	896967	0.46	926381	96.82	30	120	
Sc	45	2	NoGas	8486418	0.50	8695701	97.59	30	120	
Rh	103	1	He	2145887	0.20	2215799	96.84	30	120	
In	115	1	He	1305981	0.49	1382146	94.49	30	120	
Tb	159	1	He	3229246	0.28	3202579	100.83	30	120	
Ho	165	1	He	3285085	1.39	3234085	101.58	30	120	
Bi	209	1	He	2191240	1.58	2214527	98.95	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49193-b-17-a@2
Data File Name	026SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:55:18-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1054.885	1054.885	2.00	6266901	0.02	10000	
B	11	45	2	NoGas	149.902	149.902	0.91	583464	0.03	300	
Na	23	45	1	He	10511.347	10511.347	2.95	18544964	0.06	500000	
Mg	24	45	1	He	20066.774	20066.774	3.55	20178228	0.10	500000	
Al	27	45	1	He	32508.729	32508.729	1.66	17853741	0.18	200000	
K	39	45	1	He	16558.070	16558.070	1.98	17845716	0.09	500000	
Ca	44	45	1	He	1462417.608	1462417.608	1.52	79640998	1.84	500000	>LDR
Ti	47	45	1	He	995.496	995.496	1.94	304932	0.33	2500	
V	51	45	1	He	1101.000	1101.000	2.12	8493081	0.01	10000	
Cr	52	45	1	He	1019.145	1019.145	2.25	8929460	0.01	10000	
Mn	55	45	1	He	2033.852	2033.852	1.80	13860810	0.01	10000	
Fe	56	45	1	He	44857.214	44857.214	2.17	367209701	0.01	200000	
Co	59	45	1	He	973.439	973.439	2.43	11815383	0.01	10000	
Ni	60	45	1	He	1001.077	1001.077	3.28	3015127	0.03	10000	
Cu	63	45	1	He	944.241	944.241	2.69	7430207	0.01	10000	
Zn	66	45	1	He	1052.725	1052.725	2.98	1714467	0.06	10000	
As	75	115	1	He	1046.123	1046.123	1.16	1198953	0.09	10000	
Se	78	115	1	He	984.841	984.841	0.86	94660	1.04	10000	
Sr	88	45	1	He	2257.591	2257.591	2.70	18449584	0.01	10000	
Mo	95	103	1	He	118.540	118.540	2.23	389494	0.03	2000	
Ag	107	103	1	He	99.474	99.474	2.01	1041741	0.01	300	
Cd	111	115	1	He	1063.023	1063.023	0.71	1884910	0.06	4000	
Sn	118	115	1	He	1175.067	1175.067	1.24	5204496	0.02	2000	
Sb	123	115	1	He	107.734	107.734	0.11	502241	0.02	300	
Ba	137	115	1	He	1487.647	1487.647	1.07	3089941	0.05	10000	
W	182	159	1	He	102.687	102.687	1.73	1033927	0.01	2500	
Tl	205	165	1	He	246.882	246.882	0.32	6043128	0.00	5000	
Pb	208	165	1	He	1015.137	1015.137	1.13	33427495	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1897633	1.10	2317135	81.90	30	120	
Sc	45	1	He	867909	2.81	926381	93.69	30	120	
Sc	45	2	NoGas	8105452	0.63	8695701	93.21	30	120	
Rh	103	1	He	1867220	1.09	2215799	84.27	30	120	
In	115	1	He	1129108	0.61	1382146	81.69	30	120	
Tb	159	1	He	3040577	1.22	3202579	94.94	30	120	
Ho	165	1	He	3073788	0.76	3234085	95.04	30	120	
Bi	209	1	He	1915124	1.00	2214527	86.48	30	120	

Sample Report

Sample Table

Sample Name	240-49193-b-17-b ms@2
Data File Name	027SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T10:58:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	430.849	430.849	0.76	2458994	0.02	10000	
B	11	45	2	NoGas	86.910	86.910	1.16	340124	0.03	300	
Na	23	45	1	He	4810.721	4810.721	2.73	7961620	0.06	500000	
Mg	24	45	1	He	14338.218	14338.218	2.39	13483216	0.11	500000	
Al	27	45	1	He	27430.408	27430.408	0.97	14085530	0.19	200000	
K	39	45	1	He	10043.107	10043.107	1.90	10148551	0.10	500000	
Ca	44	45	1	He	1373028.088	1373028.088	0.98	69904437	1.96	500000	>LDR
Ti	47	45	1	He	970.429	970.429	1.50	277906	0.35	2500	
V	51	45	1	He	514.947	514.947	1.32	3714010	0.01	10000	
Cr	52	45	1	He	465.176	465.176	1.09	3812749	0.01	10000	
Mn	55	45	1	He	1424.423	1424.423	2.37	9075505	0.02	10000	
Fe	56	45	1	He	39662.916	39662.916	1.78	303557712	0.01	200000	
Co	59	45	1	He	423.299	423.299	0.96	4804636	0.01	10000	
Ni	60	45	1	He	421.102	421.102	1.13	1186408	0.04	10000	
Cu	63	45	1	He	419.638	419.638	1.60	3089487	0.01	10000	
Zn	66	45	1	He	761.400	761.400	1.30	1160190	0.07	10000	
As	75	115	1	He	430.371	430.371	0.86	485972	0.09	10000	
Se	78	115	1	He	393.690	393.690	1.00	37339	1.05	10000	
Sr	88	45	1	He	1581.336	1581.336	2.32	12082227	0.01	10000	
Mo	95	103	1	He	52.803	52.803	2.43	167762	0.03	2000	
Ag	107	103	1	He	41.559	41.559	1.46	420814	0.01	300	
Cd	111	115	1	He	407.183	407.183	0.64	711859	0.06	4000	
Sn	118	115	1	He	473.605	473.605	0.97	2067980	0.02	2000	
Sb	123	115	1	He	23.181	23.181	0.70	106493	0.02	300	
Ba	137	115	1	He	1523.294	1523.294	0.70	3116577	0.05	10000	
W	182	159	1	He	34.597	34.597	0.75	343874	0.01	2500	
Tl	205	165	1	He	102.995	102.995	0.44	2490027	0.00	5000	
Pb	208	165	1	He	445.535	445.535	0.41	14490001	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1822757	1.42	2317135	78.66	30	120	
Sc	45	1	He	811246	1.64	926381	87.57	30	120	
Sc	45	2	NoGas	7787942	0.99	8695701	89.56	30	120	
Rh	103	1	He	1805356	1.46	2215799	81.48	30	120	
In	115	1	He	1112182	0.86	1382146	80.47	30	120	
Tb	159	1	He	2984307	0.74	3202579	93.18	30	120	
Ho	165	1	He	3035586	0.53	3234085	93.86	30	120	
Bi	209	1	He	1899724	0.60	2214527	85.78	30	120	

Sample Report

Sample Table

Sample Name	240-49193-b-17-c msd@2
Data File Name	028SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:02:21-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	434.004	434.004	1.03	2440401	0.02	10000	
B	11	45	2	NoGas	83.599	83.599	1.36	327010	0.03	300	
Na	23	45	1	He	4831.055	4831.055	0.47	8018649	0.06	500000	
Mg	24	45	1	He	14119.265	14119.265	1.89	13315888	0.11	500000	
Al	27	45	1	He	26610.087	26610.087	0.76	13701888	0.19	200000	
K	39	45	1	He	10290.154	10290.154	0.44	10425720	0.10	500000	
Ca	44	45	1	He	1384763.588	1384763.588	0.57	70697547	1.96	500000	>LDR
Ti	47	45	1	He	920.004	920.004	0.29	264203	0.35	2500	
V	51	45	1	He	515.500	515.500	1.13	3728257	0.01	10000	
Cr	52	45	1	He	460.238	460.238	0.96	3782652	0.01	10000	
Mn	55	45	1	He	1398.276	1398.276	1.02	8934098	0.02	10000	
Fe	56	45	1	He	37567.555	37567.555	1.27	288328282	0.01	200000	
Co	59	45	1	He	422.314	422.314	1.22	4806250	0.01	10000	
Ni	60	45	1	He	420.113	420.113	0.90	1186890	0.04	10000	
Cu	63	45	1	He	421.209	421.209	1.61	3109694	0.01	10000	
Zn	66	45	1	He	568.240	568.240	1.00	868818	0.07	10000	
As	75	115	1	He	430.526	430.526	1.03	485413	0.09	10000	
Se	78	115	1	He	392.747	392.747	1.09	37193	1.06	10000	
Sr	88	45	1	He	1607.321	1607.321	1.29	12316071	0.01	10000	
Mo	95	103	1	He	52.294	52.294	1.14	166013	0.03	2000	
Ag	107	103	1	He	42.052	42.052	0.61	425430	0.01	300	
Cd	111	115	1	He	409.978	409.978	0.32	715660	0.06	4000	
Sn	118	115	1	He	476.766	476.766	1.58	2078410	0.02	2000	
Sb	123	115	1	He	23.899	23.899	0.81	109627	0.02	300	
Ba	137	115	1	He	935.434	935.434	1.15	1910978	0.05	10000	
W	182	159	1	He	33.918	33.918	0.28	334997	0.01	2500	
Tl	205	165	1	He	105.241	105.241	1.98	2523543	0.00	5000	
Pb	208	165	1	He	444.048	444.048	1.25	14324767	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1795764	0.11	2317135	77.50	30	120	
Sc	45	1	He	813404	0.58	926381	87.80	30	120	
Sc	45	2	NoGas	7752034	1.42	8695701	89.15	30	120	
Rh	103	1	He	1803506	0.19	2215799	81.39	30	120	
In	115	1	He	1110481	0.49	1382146	80.34	30	120	
Tb	159	1	He	2964966	0.97	3202579	92.58	30	120	
Ho	165	1	He	3011309	1.27	3234085	93.11	30	120	
Bi	209	1	He	1866511	1.42	2214527	84.28	30	120	

Sample Report

Sample Table

Sample Name	HIGH STD
Data File Name	029SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:05:56-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2119.382	2119.382	1.47	12751475	0.02	10000	
B	11	45	2	NoGas	215.590	215.590	0.15	808534	0.03	300	
Na	23	45	1	He	20676.995	20676.995	1.81	35161311	0.06	500000	
Mg	24	45	1	He	20704.809	20704.809	2.12	20096188	0.10	500000	
Al	27	45	1	He	20768.263	20768.263	2.02	11009455	0.19	200000	
K	39	45	1	He	20302.561	20302.561	2.07	21099121	0.10	500000	
Ca	44	45	1	He	19780.191	19780.191	7.57	1041089	1.90	500000	
Ti	47	45	1	He	203.377	203.377	2.03	60126	0.34	2500	
V	51	45	1	He	2077.310	2077.310	2.08	15462449	0.01	10000	
Cr	52	45	1	He	2097.891	2097.891	1.30	17736074	0.01	10000	
Mn	55	45	1	He	2043.366	2043.366	2.00	13437479	0.02	10000	
Fe	56	45	1	He	20961.226	20961.226	1.25	165612362	0.01	200000	
Co	59	45	1	He	2137.936	2137.936	1.97	25042597	0.01	10000	
Ni	60	45	1	He	2135.156	2135.156	1.25	6207083	0.03	10000	
Cu	63	45	1	He	2153.179	2153.179	1.83	16347657	0.01	10000	
Zn	66	45	1	He	2213.615	2213.615	1.31	3477219	0.06	10000	
As	75	115	1	He	2125.961	2125.961	1.49	2599432	0.08	10000	
Se	78	115	1	He	1997.860	1997.860	0.48	204761	0.98	10000	
Sr	88	45	1	He	2197.032	2197.032	3.14	17324544	0.01	10000	
Mo	95	103	1	He	197.833	197.833	3.58	727847	0.03	2000	
Ag	107	103	1	He	214.700	214.700	0.80	2518183	0.01	300	
Cd	111	115	1	He	2246.412	2246.412	0.81	4248494	0.05	4000	
Sn	118	115	1	He	2272.679	2272.679	0.59	10737128	0.02	2000	>LDR
Sb	123	115	1	He	224.246	224.246	0.92	1115253	0.02	300	
Ba	137	115	1	He	2268.501	2268.501	0.49	5027259	0.05	10000	
W	182	159	1	He	216.233	216.233	1.12	2285981	0.01	2500	
Tl	205	165	1	He	517.839	517.839	1.96	13306913	0.00	5000	
Pb	208	165	1	He	2109.252	2109.252	0.30	72924589	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1921656	0.96	2317135	82.93	30	120	
Sc	45	1	He	837446	2.27	926381	90.40	30	120	
Sc	45	2	NoGas	7965066	0.55	8695701	91.60	30	120	
Rh	103	1	He	2090886	0.86	2215799	94.36	30	120	
In	115	1	He	1204653	0.25	1382146	87.16	30	120	
Tb	159	1	He	3197398	1.59	3202579	99.84	30	120	
Ho	165	1	He	3227259	1.35	3234085	99.79	30	120	
Bi	209	1	He	2193352	2.59	2214527	99.04	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176157/1-a
Data File Name	030_Blk.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:09:20-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.772	2.0	4827	2.0	1	
B	11	45	2	NoGas	6.606	4.8	60662	2.9	20	
Na	23	45	1	He	17.863	4.3	80352	2.9	400	
Mg	24	45	1	He	-1.909	-35.1	3593	19.5	1000	
Al	27	45	1	He	-14.647	-3.1	2586	10.5	50	
K	39	45	1	He	6.707	28.6	83678	2.3	1000	
Ca	44	45	1	He	24.281	14.8	3109	5.8	1000	
Ti	47	45	1	He	0.564	6.0	182	5.6	20	
V	51	45	1	He	0.515	25.5	4333	23.9	2	
Cr	52	45	1	He	1.197	3.8	13863	3.8	2	
Mn	55	45	1	He	0.069	41.6	2481	8.9	2	
Fe	56	45	1	He	19.863	28.8	171479	27.8	50	
Co	59	45	1	He	0.484	18.7	6000	19.1	1	
Ni	60	45	1	He	0.413	13.1	1797	10.1	2	
Cu	63	45	1	He	1.169	25.0	12527	18.4	2	
Zn	66	45	1	He	2.453	5.5	6218	3.8	20	
As	75	115	1	He	0.744	9.6	1202	7.4	2	
Se	78	115	1	He	1.116	12.9	248	6.1	2	
Sr	88	45	1	He	0.253	18.1	2467	15.9	10	
Mo	95	103	1	He	4.873	26.7	18588	25.5	2	Blank Failed
Ag	107	103	1	He	0.017	22.9	231	19.6	0.2	
Cd	111	115	1	He	0.592	23.0	2467	10.7	0.2	Blank Failed
Sn	118	115	1	He	19.444	25.0	100184	23.8	10	Blank Failed
Sb	123	115	1	He	0.589	9.2	3174	8.7	1	
Ba	137	115	1	He	0.292	9.0	752	7.8	5	
W	182	159	1	He	4.918	26.6	55021	23.8	10	
Tl	205	165	1	He	0.530	32.9	13842	31.7	0.5	Blank Failed
Pb	208	165	1	He	0.367	21.7	13677	19.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1914166	0.72	2317135	82.61	30	120	
Sc	45	1	He	839310	1.36	926381	90.60	30	120	
Sc	45	2	NoGas	8000343	1.05	8695701	92.00	30	120	
Rh	103	1	He	2165901	1.14	2215799	97.75	30	120	
In	115	1	He	1274985	0.39	1382146	92.25	30	120	
Tb	159	1	He	3201805	1.19	3202579	99.98	30	120	
Ho	165	1	He	3188058	0.36	3234085	98.58	30	120	
Bi	209	1	He	2268547	0.33	2214527	102.44	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176157/2-a
Data File Name	031_LCS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:13:11-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1028.053	1028.053	0.621	6018409	0.23	1000	102.8	79.5	120.5	
B	11	2	NoGas	114.507	114.507	0.706	443934	1.09	100	114.5	79.5	120.5	
Na	23	1	He	10333.790	10333.790	2.705	17355045	0.48	10000	103.3	79.5	120.5	
Mg	24	1	He	10274.690	10274.690	3.053	9837422	0.68	10000	102.7	79.5	120.5	
Al	27	1	He	10061.793	10061.793	1.596	5266534	0.86	10000	100.6	79.5	120.5	
K	39	1	He	10081.142	10081.142	1.477	10371912	1.04	10000	100.8	79.5	120.5	
Ca	44	1	He	9020.934	9020.934	2.686	469286	0.26	10000	90.2	79.5	120.5	
Ti	47	1	He	100.767	100.767	2.011	29392	0.99	100	100.8	79.5	120.5	
V	51	1	He	1041.374	1041.374	1.723	7647106	1.96	1000	104.1	79.5	120.5	
Cr	52	1	He	1061.417	1061.417	1.841	8853369	2.15	1000	106.1	79.5	120.5	
Mn	55	1	He	1026.628	1026.628	0.958	6662142	2.62	1000	102.7	79.5	120.5	
Fe	56	1	He	10581.259	10581.259	2.303	82454846	0.53	10000	105.8	79.5	120.5	
Co	59	1	He	1092.107	1092.107	1.941	12618067	0.68	1000	109.2	79.5	120.5	
Ni	60	1	He	1121.427	1121.427	1.888	3215556	0.54	1000	112.1	79.5	120.5	
Cu	63	1	He	1110.442	1110.442	2.622	8316476	0.24	1000	111.0	79.5	120.5	
Zn	66	1	He	1116.830	1116.830	3.424	1731060	1.54	1000	111.7	79.5	120.5	
As	75	1	He	990.888	990.888	0.162	1222826	0.37	1000	99.1	79.5	120.5	
Se	78	1	He	995.563	995.563	0.142	103033	0.38	1000	99.6	79.5	120.5	
Sr	88	1	He	1073.131	1073.131	2.696	8347204	0.30	1000	107.3	79.5	120.5	
Mo	95	1	He	106.239	106.239	3.149	394622	0.34	100	106.2	79.5	120.5	
Ag	107	1	He	102.662	102.662	2.673	1215484	0.54	100	102.7	79.5	120.5	
Cd	111	1	He	1139.621	1139.621	0.830	2175708	0.97	1000	114.0	79.5	120.5	
Sn	118	1	He	1128.856	1128.856	0.584	5383720	0.76	1000	112.9	79.5	120.5	
Sb	123	1	He	107.535	107.535	0.996	539760	1.01	100	107.5	79.5	120.5	
Ba	137	1	He	1120.908	1120.908	2.457	2506975	2.64	1000	112.1	79.5	120.5	
W	182	1	He	104.057	104.057	0.782	1096607	0.79	100	104.1	79.5	120.5	
Tl	205	1	He	256.310	256.310	0.785	6602905	0.62	250	102.5	79.5	120.5	
Pb	208	1	He	1034.509	1034.509	0.254	35853965	0.60	1000	103.5	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1869721	0.51	2317135	80.69	30	120	
Sc	45	1	He	826042	2.45	926381	89.17	30	120	
Sc	45	2	NoGas	7916215	0.44	8695701	91.04	30	120	
Rh	103	1	He	2111744	2.86	2215799	95.30	30	120	
In	115	1	He	1215715	0.28	1382146	87.96	30	120	
Tb	159	1	He	3182464	1.48	3202579	99.37	30	120	
Ho	165	1	He	3235015	0.71	3234085	100.03	30	120	
Bi	209	1	He	2159553	0.81	2214527	97.52	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-a
Data File Name	032SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:16:44-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.657	0.657	4.58	4223	0.02	10000	
B	11	45	2	NoGas	128.764	128.764	1.25	511183	0.03	300	
Na	23	45	1	He	42617.076	42617.076	1.24	74181664	0.06	500000	
Mg	24	45	1	He	29883.732	29883.732	1.90	29707565	0.10	500000	
Al	27	45	1	He	-12.821	-12.821	-1.86	3630	-0.35	200000	
K	39	45	1	He	2679.904	2679.904	1.11	2920959	0.09	500000	
Ca	44	45	1	He	18236.743	18236.743	1.51	983459	1.85	500000	
Ti	47	45	1	He	0.360	0.360	12.23	124	0.29	2500	
V	51	45	1	He	0.351	0.351	36.55	3161	0.01	10000	
Cr	52	45	1	He	1.301	1.301	1.98	15063	0.01	10000	
Mn	55	45	1	He	0.201	0.201	19.83	3419	0.01	10000	
Fe	56	45	1	He	29.878	29.878	3.49	255962	0.01	200000	
Co	59	45	1	He	0.275	0.275	13.03	3609	0.01	10000	
Ni	60	45	1	He	0.197	0.197	19.36	1191	0.02	10000	
Cu	63	45	1	He	1.089	1.089	2.96	12171	0.01	10000	
Zn	66	45	1	He	3.166	3.166	4.24	7498	0.04	10000	
As	75	115	1	He	0.925	0.925	4.04	1424	0.06	10000	
Se	78	115	1	He	0.621	0.621	36.45	193	0.32	10000	
Sr	88	45	1	He	375.724	375.724	1.55	3035737	0.01	10000	
Mo	95	103	1	He	1.161	1.161	20.70	4401	0.03	2000	
Ag	107	103	1	He	0.010	0.010	24.47	141	0.01	300	
Cd	111	115	1	He	0.379	0.379	11.85	2025	0.02	4000	
Sn	118	115	1	He	3.488	3.488	16.89	20332	0.02	2000	
Sb	123	115	1	He	0.428	0.428	11.32	2309	0.02	300	
Ba	137	115	1	He	18.447	18.447	1.25	43009	0.04	10000	
W	182	159	1	He	1.567	1.567	18.76	19880	0.01	2500	
Tl	205	165	1	He	0.221	0.221	24.06	6115	0.00	5000	
Pb	208	165	1	He	0.180	0.180	18.38	7403	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1952357	0.64	2317135	84.26	30	120	
Sc	45	1	He	857701	1.41	926381	92.59	30	120	
Sc	45	2	NoGas	8180941	0.47	8695701	94.08	30	120	
Rh	103	1	He	2130988	0.48	2215799	96.17	30	120	
In	115	1	He	1265367	0.35	1382146	91.55	30	120	
Tb	159	1	He	3231657	0.38	3202579	100.91	30	120	
Ho	165	1	He	3244667	0.61	3234085	100.33	30	120	
Bi	209	1	He	2192412	1.30	2214527	99.00	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	033_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:20:30-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.499	1.049	317452	0.82	50	97.0	89.5	110.5	
B	11	45	2	NoGas	49.996	1.438	230980	0.15	50	100.0	89.5	110.5	
Na	23	45	1	He	25223.038	2.638	46704520	1.37	25000	100.9	89.5	110.5	
Mg	24	45	1	He	25306.529	3.495	26745569	0.51	25000	101.2	89.5	110.5	
Al	27	45	1	He	238.003	2.715	148550	1.48	250	95.2	89.5	110.5	
K	39	45	1	He	25113.984	3.845	28396399	0.39	25000	100.5	89.5	110.5	
Ca	44	45	1	He	25537.783	3.398	1463445	1.99	25000	102.2	89.5	110.5	
Ti	47	45	1	He	49.681	4.542	16002	0.90	50	99.4	89.5	110.5	
V	51	45	1	He	50.724	3.781	411658	1.53	50	101.4	89.5	110.5	
Cr	52	45	1	He	51.168	2.694	475057	1.36	50	102.3	89.5	110.5	
Mn	55	45	1	He	260.384	4.369	1866127	1.08	250	104.2	89.5	110.5	
Fe	56	45	1	He	12765.103	3.231	109828238	0.85	12500	102.1	89.5	110.5	
Co	59	45	1	He	51.688	2.208	659841	1.79	50	103.4	89.5	110.5	
Ni	60	45	1	He	51.837	3.033	164728	1.10	50	103.7	89.5	110.5	
Cu	63	45	1	He	52.617	2.841	438927	1.32	50	105.2	89.5	110.5	
Zn	66	45	1	He	51.615	3.491	90786	1.00	50	103.2	89.5	110.5	
As	75	115	1	He	50.647	0.805	67665	1.06	50	101.3	89.5	110.5	
Se	78	115	1	He	49.756	1.740	5680	1.97	50	99.5	89.5	110.5	
Sr	88	45	1	He	50.868	3.167	437397	0.87	50	101.7	89.5	110.5	
Mo	95	103	1	He	50.161	3.488	192901	1.48	50	100.3	89.5	110.5	
Ag	107	103	1	He	50.514	0.867	619277	1.20	50	101.0	89.5	110.5	
Cd	111	115	1	He	51.945	1.288	108254	1.66	50	103.9	89.5	110.5	
Sn	118	115	1	He	50.914	0.935	264965	1.33	50	101.8	89.5	110.5	
Sb	123	115	1	He	52.766	0.419	285782	0.75	50	105.5	89.5	110.5	
Ba	137	115	1	He	51.216	1.502	123650	1.91	50	102.4	89.5	110.5	
W	182	159	1	He	49.683	2.373	538743	0.89	50	99.4	89.5	110.5	
Tl	205	165	1	He	49.721	1.969	1292172	1.29	50	99.4	89.5	110.5	
Pb	208	165	1	He	50.215	2.265	1756288	1.56	50	100.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2089379	1.80	2317135	90.17	30	120	
Sc	45	1	He	912518	4.03	926381	98.50	30	120	
Sc	45	2	NoGas	8529219	1.04	8695701	98.09	30	120	
Rh	103	1	He	2185728	2.05	2215799	98.64	30	120	
In	115	1	He	1311588	0.41	1382146	94.90	30	120	
Tb	159	1	He	3265147	1.87	3202579	101.95	30	120	
Ho	165	1	He	3262897	0.70	3234085	100.89	30	120	
Bi	209	1	He	2209463	0.45	2214527	99.77	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	034_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:24:18-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.338	7.1	2493	6.8	1	
B	11	45	2	NoGas	-0.835	-24.5	36121	1.0	20	
Na	23	45	1	He	28.321	7.0	101213	2.1	400	
Mg	24	45	1	He	-1.411	-45.7	4193	13.6	1000	
Al	27	45	1	He	5.312	14.6	13593	1.3	50	
K	39	45	1	He	16.924	22.1	97225	2.4	1000	
Ca	44	45	1	He	-0.695	-358.6	1849	6.1	1000	
Ti	47	45	1	He	0.018	190.2	21	50.8	20	
V	51	45	1	He	0.081	34.4	1124	18.6	2	
Cr	52	45	1	He	0.061	37.5	4365	4.0	2	
Mn	55	45	1	He	18.485	1.6	127770	1.2	2	CCB Failed
Fe	56	45	1	He	14.784	31.6	134632	26.5	50	
Co	59	45	1	He	0.032	25.1	708	13.2	1	
Ni	60	45	1	He	-0.029	-38.7	522	6.1	2	
Cu	63	45	1	He	0.303	5.9	6111	1.9	2	
Zn	66	45	1	He	0.222	62.3	2789	6.2	20	
As	75	115	1	He	0.063	6.0	339	1.8	2	
Se	78	115	1	He	0.106	177.6	147	15.1	2	
Sr	88	45	1	He	0.003	489.4	502	21.7	10	
Mo	95	103	1	He	1.073	22.3	4287	22.4	2	
Ag	107	103	1	He	0.009	15.8	134	12.5	0.2	
Cd	111	115	1	He	0.109	18.2	1590	2.3	0.2	
Sn	118	115	1	He	0.551	8.4	6142	4.3	10	
Sb	123	115	1	He	0.377	12.9	2179	12.1	1	
Ba	137	115	1	He	0.037	42.1	164	23.3	5	
W	182	159	1	He	1.164	14.5	15779	11.3	10	
Tl	205	165	1	He	0.063	21.9	2036	16.5	0.5	
Pb	208	165	1	He	0.042	11.2	2615	5.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2141939	0.45	2317135	92.44	30	120	
Sc	45	1	He	865859	1.80	926381	93.47	30	120	
Sc	45	2	NoGas	8526337	1.27	8695701	98.05	30	120	
Rh	103	1	He	2240755	0.54	2215799	101.13	30	120	
In	115	1	He	1349879	0.41	1382146	97.67	30	120	
Tb	159	1	He	3272850	2.28	3202579	102.19	30	120	
Ho	165	1	He	3257005	1.28	3234085	100.71	30	120	
Bi	209	1	He	2276415	0.32	2214527	102.79	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49236-d-3-a@5
Data File Name	035SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:28:08-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.283	0.283	4.98	2093	0.01	10000	
B	11	45	2	NoGas	21.817	21.817	2.50	123073	0.02	300	
Na	23	45	1	He	8512.235	8512.235	0.98	15603560	0.05	500000	
Mg	24	45	1	He	5931.397	5931.397	0.53	6197452	0.10	500000	
Al	27	45	1	He	4.659	4.659	7.98	13772	0.03	200000	
K	39	45	1	He	530.079	530.079	0.37	672758	0.08	500000	
Ca	44	45	1	He	3677.514	3677.514	1.32	209836	1.75	500000	
Ti	47	45	1	He	0.068	0.068	46.59	38	0.18	2500	
V	51	45	1	He	0.009	0.009	442.12	590	0.00	10000	
Cr	52	45	1	He	0.266	0.266	4.39	6405	0.00	10000	
Mn	55	45	1	He	0.017	0.017	32.73	2295	0.00	10000	
Fe	56	45	1	He	7.029	7.029	2.47	74573	0.01	200000	
Co	59	45	1	He	0.027	0.027	18.49	668	0.00	10000	
Ni	60	45	1	He	-0.059	-0.059	-10.52	450	-0.01	10000	
Cu	63	45	1	He	0.201	0.201	7.73	5528	0.00	10000	
Zn	66	45	1	He	0.620	0.620	10.93	3577	0.02	10000	
As	75	115	1	He	0.150	0.150	19.36	453	0.03	10000	
Se	78	115	1	He	0.082	0.082	117.41	142	0.06	10000	
Sr	88	45	1	He	69.878	69.878	0.68	593373	0.01	10000	
Mo	95	103	1	He	0.233	0.233	2.99	950	0.02	2000	
Ag	107	103	1	He	0.002	0.002	29.92	49	0.00	300	
Cd	111	115	1	He	0.068	0.068	2.09	1485	0.00	4000	
Sn	118	115	1	He	0.146	0.146	41.90	3953	0.00	2000	
Sb	123	115	1	He	0.148	0.148	5.25	896	0.02	300	
Ba	137	115	1	He	3.552	3.552	2.31	8794	0.04	10000	
W	182	159	1	He	0.284	0.284	1.88	6179	0.00	2500	
Tl	205	165	1	He	0.022	0.022	0.60	990	0.00	5000	
Pb	208	165	1	He	0.029	0.029	9.78	2215	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2114674	2.05	2317135	91.26	30	120	
Sc	45	1	He	900652	0.61	926381	97.22	30	120	
Sc	45	2	NoGas	8536205	0.39	8695701	98.17	30	120	
Rh	103	1	He	2189946	2.00	2215799	98.83	30	120	
In	115	1	He	1334716	0.99	1382146	96.57	30	120	
Tb	159	1	He	3225766	0.61	3202579	100.72	30	120	
Ho	165	1	He	3292382	0.38	3234085	101.80	30	120	
Bi	209	1	He	2267071	0.35	2214527	102.37	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49236-d-3-a
Data File Name	036SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:32:00-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1045.582	1045.582	0.90	6218132	0.02	10000	
B	11	45	2	NoGas	251.750	251.750	2.58	937619	0.03	300	
Na	23	45	1	He	52476.677	52476.677	2.25	89969102	0.06	500000	
Mg	24	45	1	He	39423.285	39423.285	2.35	38603283	0.10	500000	
Al	27	45	1	He	10100.955	10100.955	1.73	5408471	0.19	200000	
K	39	45	1	He	12712.289	12712.289	2.08	13358331	0.10	500000	
Ca	44	45	1	He	29694.121	29694.121	1.73	1576304	1.88	500000	
Ti	47	45	1	He	102.280	102.280	1.54	30521	0.34	2500	
V	51	45	1	He	1051.141	1051.141	3.56	7894409	0.01	10000	
Cr	52	45	1	He	1045.208	1045.208	2.08	8917587	0.01	10000	
Mn	55	45	1	He	1011.704	1011.704	2.42	6713922	0.02	10000	
Fe	56	45	1	He	10409.974	10409.974	2.13	82989570	0.01	200000	
Co	59	45	1	He	1057.893	1057.893	2.25	12503343	0.01	10000	
Ni	60	45	1	He	1080.147	1080.147	1.57	3168604	0.03	10000	
Cu	63	45	1	He	1079.627	1079.627	2.28	8272318	0.01	10000	
Zn	66	45	1	He	1102.744	1102.744	3.02	1748701	0.06	10000	
As	75	115	1	He	1041.350	1041.350	0.57	1250901	0.08	10000	
Se	78	115	1	He	1027.268	1027.268	0.43	103483	0.99	10000	
Sr	88	45	1	He	1426.773	1426.773	3.06	11353136	0.01	10000	
Mo	95	103	1	He	110.436	110.436	0.70	399569	0.03	2000	
Ag	107	103	1	He	102.024	102.024	1.69	1176426	0.01	300	
Cd	111	115	1	He	1157.777	1157.777	0.71	2151693	0.05	4000	
Sn	118	115	1	He	1155.765	1155.765	0.39	5365427	0.02	2000	
Sb	123	115	1	He	109.731	109.731	1.21	536112	0.02	300	
Ba	137	115	1	He	1164.824	1164.824	0.19	2535957	0.05	10000	
W	182	159	1	He	106.049	106.049	1.06	1096749	0.01	2500	
Tl	205	165	1	He	257.342	257.342	1.95	6502450	0.00	5000	
Pb	208	165	1	He	1034.907	1034.907	1.52	35180691	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1899524	1.60	2317135	81.98	30	120	
Sc	45	1	He	845006	2.10	926381	91.22	30	120	
Sc	45	2	NoGas	7963155	1.73	8695701	91.58	30	120	
Rh	103	1	He	2055813	0.82	2215799	92.78	30	120	
In	115	1	He	1183423	1.06	1382146	85.62	30	120	
Tb	159	1	He	3123059	0.48	3202579	97.52	30	120	
Ho	165	1	He	3173241	0.74	3234085	98.12	30	120	
Bi	209	1	He	2105829	0.96	2214527	95.09	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-b du
Data File Name	037SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:35:32-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.479	0.479	10.54	3163	0.02	10000	
B	11	45	2	NoGas	122.227	122.227	2.11	498490	0.02	300	
Na	23	45	1	He	40193.801	40193.801	1.60	71325488	0.06	500000	
Mg	24	45	1	He	27782.065	27782.065	0.96	28158918	0.10	500000	
Al	27	45	1	He	-13.011	-13.011	-3.80	3599	-0.36	200000	
K	39	45	1	He	2544.850	2544.850	3.11	2831338	0.09	500000	
Ca	44	45	1	He	17062.122	17062.122	1.89	938119	1.82	500000	
Ti	47	45	1	He	0.201	0.201	31.82	78	0.26	2500	
V	51	45	1	He	0.205	0.205	75.98	2109	0.01	10000	
Cr	52	45	1	He	1.159	1.159	4.34	14098	0.01	10000	
Mn	55	45	1	He	0.211	0.211	9.09	3558	0.01	10000	
Fe	56	45	1	He	26.726	26.726	2.76	234957	0.01	200000	
Co	59	45	1	He	0.193	0.193	14.83	2687	0.01	10000	
Ni	60	45	1	He	0.083	0.083	15.44	870	0.01	10000	
Cu	63	45	1	He	0.965	0.965	3.54	11425	0.01	10000	
Zn	66	45	1	He	4.783	4.783	3.35	10295	0.05	10000	
As	75	115	1	He	0.877	0.877	1.31	1382	0.06	10000	
Se	78	115	1	He	0.651	0.651	16.23	199	0.33	10000	
Sr	88	45	1	He	346.769	346.769	1.05	2856574	0.01	10000	
Mo	95	103	1	He	1.044	1.044	19.65	3965	0.03	2000	
Ag	107	103	1	He	0.010	0.010	22.77	143	0.01	300	
Cd	111	115	1	He	0.302	0.302	16.65	1897	0.02	4000	
Sn	118	115	1	He	2.420	2.420	20.42	15219	0.02	2000	
Sb	123	115	1	He	0.328	0.328	5.19	1811	0.02	300	
Ba	137	115	1	He	17.066	17.066	2.94	40314	0.04	10000	
W	182	159	1	He	1.301	1.301	17.68	16969	0.01	2500	
Tl	205	165	1	He	0.111	0.111	25.55	3266	0.00	5000	
Pb	208	165	1	He	0.144	0.144	14.57	6136	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1971232	0.98	2317135	85.07	30	120	
Sc	45	1	He	874398	1.37	926381	94.39	30	120	
Sc	45	2	NoGas	8371711	1.14	8695701	96.27	30	120	
Rh	103	1	He	2132092	0.69	2215799	96.22	30	120	
In	115	1	He	1282055	0.69	1382146	92.76	30	120	
Tb	159	1	He	3216564	0.19	3202579	100.44	30	120	
Ho	165	1	He	3237440	0.51	3234085	100.10	30	120	
Bi	209	1	He	2186111	0.76	2214527	98.72	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-c ms
Data File Name	038SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:39:23-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	100.393	100.393	2.06	607598	0.02	10000	
B	11	45	2	NoGas	239.605	239.605	3.08	904090	0.03	300	
Na	23	45	1	He	51014.199	51014.199	2.12	88509385	0.06	500000	
Mg	24	45	1	He	38278.874	38278.874	1.81	37937254	0.10	500000	
Al	27	45	1	He	9888.408	9888.408	3.03	5357675	0.18	200000	
K	39	45	1	He	12485.877	12485.877	1.95	13280101	0.09	500000	
Ca	44	45	1	He	27889.173	27889.173	3.48	1497941	1.86	500000	
Ti	47	45	1	He	98.964	98.964	0.82	29891	0.33	2500	
V	51	45	1	He	100.161	100.161	1.55	761934	0.01	10000	
Cr	52	45	1	He	103.050	103.050	1.59	893232	0.01	10000	
Mn	55	45	1	He	97.104	97.104	2.03	654050	0.01	10000	
Fe	56	45	1	He	10159.047	10159.047	1.94	81964215	0.01	200000	
Co	59	45	1	He	103.259	103.259	2.33	1235344	0.01	10000	
Ni	60	45	1	He	103.356	103.356	2.29	307351	0.03	10000	
Cu	63	45	1	He	104.976	104.976	2.11	817362	0.01	10000	
Zn	66	45	1	He	107.756	107.756	0.78	175156	0.06	10000	
As	75	115	1	He	101.778	101.778	0.30	128176	0.08	10000	
Se	78	115	1	He	97.804	97.804	1.64	10423	0.94	10000	
Sr	88	45	1	He	462.899	462.899	2.31	3728191	0.01	10000	
Mo	95	103	1	He	105.451	105.451	1.43	389454	0.03	2000	
Ag	107	103	1	He	99.793	99.793	1.64	1174653	0.01	300	
Cd	111	115	1	He	103.561	103.561	0.37	202574	0.05	4000	
Sn	118	115	1	He	101.429	101.429	0.97	495528	0.02	2000	
Sb	123	115	1	He	103.387	103.387	0.42	528727	0.02	300	
Ba	137	115	1	He	119.146	119.146	0.97	271550	0.04	10000	
W	182	159	1	He	100.743	100.743	0.56	1055884	0.01	2500	
Tl	205	165	1	He	103.141	103.141	1.17	2642961	0.00	5000	
Pb	208	165	1	He	102.171	102.171	1.81	3522508	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1932471	0.59	2317135	83.40	30	120	
Sc	45	1	He	855233	2.72	926381	92.32	30	120	
Sc	45	2	NoGas	8051229	0.69	8695701	92.59	30	120	
Rh	103	1	He	2098645	1.13	2215799	94.71	30	120	
In	115	1	He	1238642	0.61	1382146	89.62	30	120	
Tb	159	1	He	3164601	0.35	3202579	98.81	30	120	
Ho	165	1	He	3217660	1.64	3234085	99.49	30	120	
Bi	209	1	He	2135055	0.62	2214527	96.41	30	120	

Sample Report

Sample Table

Sample Name	240-49236-a-4-a
Data File Name	039SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:43:08-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.285	0.285	7.54	1997	0.01	10000	
B	11	45	2	NoGas	5.440	5.440	9.87	58716	0.01	300	
Na	23	45	1	He	838.795	838.795	2.12	1539562	0.05	500000	
Mg	24	45	1	He	24.841	24.841	3.79	30860	0.08	500000	
Al	27	45	1	He	34.457	34.457	3.91	29851	0.12	200000	
K	39	45	1	He	26.174	26.174	4.75	108249	0.02	500000	
Ca	44	45	1	He	150.965	150.965	5.31	10188	1.48	500000	
Ti	47	45	1	He	0.268	0.268	22.84	99	0.27	2500	
V	51	45	1	He	0.261	0.261	74.69	2547	0.01	10000	
Cr	52	45	1	He	1.974	1.974	0.52	21304	0.01	10000	
Mn	55	45	1	He	5.404	5.404	1.45	39227	0.01	10000	
Fe	56	45	1	He	57.219	57.219	0.99	486622	0.01	200000	
Co	59	45	1	He	0.132	0.132	6.85	1938	0.01	10000	
Ni	60	45	1	He	2.763	2.763	1.02	9008	0.03	10000	
Cu	63	45	1	He	0.542	0.542	5.77	8069	0.01	10000	
Zn	66	45	1	He	3.241	3.241	1.22	7772	0.04	10000	
As	75	115	1	He	0.377	0.377	4.92	749	0.05	10000	
Se	78	115	1	He	0.092	0.092	200.94	141	0.07	10000	
Sr	88	45	1	He	0.594	0.594	1.97	5382	0.01	10000	
Mo	95	103	1	He	1.296	1.296	23.50	5188	0.02	2000	
Ag	107	103	1	He	0.009	0.009	50.18	140	0.01	300	
Cd	111	115	1	He	0.079	0.079	22.94	1486	0.01	4000	
Sn	118	115	1	He	0.817	0.817	4.64	7350	0.01	2000	
Sb	123	115	1	He	0.657	0.657	6.45	3640	0.02	300	
Ba	137	115	1	He	0.569	0.569	11.91	1446	0.04	10000	
W	182	159	1	He	1.749	1.749	17.29	21983	0.01	2500	
Tl	205	165	1	He	0.107	0.107	25.51	3151	0.00	5000	
Pb	208	165	1	He	0.095	0.095	5.43	4419	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2002222	1.20	2317135	86.41	30	120	
Sc	45	1	He	874639	2.31	926381	94.41	30	120	
Sc	45	2	NoGas	8320576	0.51	8695701	95.69	30	120	
Rh	103	1	He	2251125	0.47	2215799	101.59	30	120	
In	115	1	He	1314155	0.08	1382146	95.08	30	120	
Tb	159	1	He	3254134	1.33	3202579	101.61	30	120	
Ho	165	1	He	3214888	1.26	3234085	99.41	30	120	
Bi	209	1	He	2282223	0.91	2214527	103.06	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	040_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:47:01-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	50.145	2.089	327570	1.51	50	100.3	89.5	110.5	
B	11	45	2	NoGas	50.388	1.274	231050	1.40	50	100.8	89.5	110.5	
Na	23	45	1	He	25523.404	3.692	46781854	0.33	25000	102.1	89.5	110.5	
Mg	24	45	1	He	25350.685	1.880	26540543	2.20	25000	101.4	89.5	110.5	
Al	27	45	1	He	242.368	2.741	149581	1.43	250	96.9	89.5	110.5	
K	39	45	1	He	25377.712	2.512	28420630	1.11	25000	101.5	89.5	110.5	
Ca	44	45	1	He	25716.189	2.659	1459280	1.39	25000	102.9	89.5	110.5	
Ti	47	45	1	He	51.660	4.822	16474	1.47	50	103.3	89.5	110.5	
V	51	45	1	He	51.473	3.651	413611	0.63	50	102.9	89.5	110.5	
Cr	52	45	1	He	51.945	2.522	477463	0.99	50	103.9	89.5	110.5	
Mn	55	45	1	He	262.058	3.206	1860123	0.27	250	104.8	89.5	110.5	
Fe	56	45	1	He	12836.514	3.459	109348265	0.30	12500	102.7	89.5	110.5	
Co	59	45	1	He	52.077	2.492	658190	1.04	50	104.2	89.5	110.5	
Ni	60	45	1	He	52.088	2.274	163920	1.26	50	104.2	89.5	110.5	
Cu	63	45	1	He	52.761	2.516	435832	1.75	50	105.5	89.5	110.5	
Zn	66	45	1	He	52.264	2.942	91002	1.05	50	104.5	89.5	110.5	
As	75	115	1	He	50.723	0.967	67592	1.05	50	101.4	89.5	110.5	
Se	78	115	1	He	50.633	1.397	5762	0.85	50	101.3	89.5	110.5	
Sr	88	45	1	He	51.375	2.389	437483	1.37	50	102.7	89.5	110.5	
Mo	95	103	1	He	50.475	3.896	193030	1.64	50	101.0	89.5	110.5	
Ag	107	103	1	He	50.908	0.890	620706	1.52	50	101.8	89.5	110.5	
Cd	111	115	1	He	52.157	1.234	108417	2.01	50	104.3	89.5	110.5	
Sn	118	115	1	He	50.654	1.107	262954	1.41	50	101.3	89.5	110.5	
Sb	123	115	1	He	53.045	0.979	286547	0.44	50	106.1	89.5	110.5	
Ba	137	115	1	He	51.000	0.484	122809	0.77	50	102.0	89.5	110.5	
W	182	159	1	He	49.814	2.387	538496	1.71	50	99.6	89.5	110.5	
Tl	205	165	1	He	49.256	1.336	1279534	1.20	50	98.5	89.5	110.5	
Pb	208	165	1	He	49.884	1.895	1743873	1.01	50	99.8	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2085153	0.87	2317135	89.99	30	120	
Sc	45	1	He	903427	3.52	926381	97.52	30	120	
Sc	45	2	NoGas	8476443	1.64	8695701	97.48	30	120	
Rh	103	1	He	2173892	2.42	2215799	98.11	30	120	
In	115	1	He	1308297	1.25	1382146	94.66	30	120	
Tb	159	1	He	3254558	0.84	3202579	101.62	30	120	
Ho	165	1	He	3261401	1.18	3234085	100.84	30	120	
Bi	209	1	He	2201938	0.29	2214527	99.43	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	041_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:50:46-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.209	4.3	1637	4.0	1	
B	11	45	2	NoGas	-0.727	-13.1	36122	1.0	20	
Na	23	45	1	He	27.660	8.3	101202	3.1	400	
Mg	24	45	1	He	-1.222	-32.6	4438	8.5	1000	
Al	27	45	1	He	5.029	18.4	13594	3.3	50	
K	39	45	1	He	16.928	1.0	98383	1.0	1000	
Ca	44	45	1	He	-1.890	-82.9	1806	4.9	1000	
Ti	47	45	1	He	0.067	56.3	37	32.8	20	
V	51	45	1	He	0.042	110.4	834	43.0	2	
Cr	52	45	1	He	0.051	41.5	4327	3.1	2	
Mn	55	45	1	He	18.090	3.6	126493	2.4	2	CCB Failed
Fe	56	45	1	He	15.006	31.6	138156	27.2	50	
Co	59	45	1	He	0.016	27.3	516	9.9	1	
Ni	60	45	1	He	-0.039	-30.1	499	6.0	2	
Cu	63	45	1	He	0.238	7.0	5662	2.2	2	
Zn	66	45	1	He	0.268	7.4	2899	1.0	20	
As	75	115	1	He	0.054	32.1	326	7.5	2	
Se	78	115	1	He	0.029	184.4	137	4.6	2	
Sr	88	45	1	He	-0.007	-19.5	431	1.6	10	
Mo	95	103	1	He	1.156	22.7	4652	21.4	2	
Ag	107	103	1	He	0.008	40.9	129	32.1	0.2	
Cd	111	115	1	He	0.071	33.7	1501	3.3	0.2	
Sn	118	115	1	He	0.326	12.8	4931	4.5	10	
Sb	123	115	1	He	0.410	8.7	2354	8.6	1	
Ba	137	115	1	He	0.015	75.5	110	25.9	5	
W	182	159	1	He	1.274	15.3	16754	12.4	10	
Tl	205	165	1	He	0.052	23.9	1747	18.8	0.5	
Pb	208	165	1	He	0.029	22.8	2151	11.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2150552	0.66	2317135	92.81	30	120	
Sc	45	1	He	875723	1.17	926381	94.53	30	120	
Sc	45	2	NoGas	8428927	1.97	8695701	96.93	30	120	
Rh	103	1	He	2263327	1.06	2215799	102.14	30	120	
In	115	1	He	1344183	0.20	1382146	97.25	30	120	
Tb	159	1	He	3230438	0.44	3202579	100.87	30	120	
Ho	165	1	He	3240287	0.59	3234085	100.19	30	120	
Bi	209	1	He	2257024	0.92	2214527	101.92	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1912660
Data File Name	042CRIA.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:54:36-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.963	0.963	3.648	6794	3.55	1	96.3	69.5	130.5	
B	11	2	NoGas	17.025	17.025	3.444	106455	1.91	20	85.1	69.5	130.5	
Na	23	1	He	1059.689	1059.689	0.899	2028449	1.50	1000	106.0	69.5	130.5	
Mg	24	1	He	1026.464	1026.464	1.098	1098487	1.51	1000	102.6	69.5	130.5	
Al	27	1	He	35.859	35.859	3.401	32170	3.00	50	71.7	69.5	130.5	
K	39	1	He	1032.187	1032.187	3.092	1256172	2.81	1000	103.2	69.5	130.5	
Ca	44	1	He	997.239	997.239	0.705	59480	1.03	1000	99.7	69.5	130.5	
Ti	47	1	He	10.026	10.026	3.118	3267	3.27	10	100.3	69.5	130.5	
V	51	1	He	5.191	5.191	0.548	42911	0.52	5	103.8	69.5	130.5	
Cr	52	1	He	2.112	2.112	1.517	23649	0.78	2	105.6	69.5	130.5	
Mn	55	1	He	4.793	4.793	0.940	36782	1.14	5	95.9	69.5	130.5	
Fe	56	1	He	104.601	104.601	0.747	921440	0.33	100	104.6	69.5	130.5	
Co	59	1	He	1.065	1.065	1.912	14021	1.82	1	106.5	69.5	130.5	
Ni	60	1	He	2.024	2.024	3.643	7099	2.39	2	101.2	69.5	130.5	
Cu	63	1	He	2.237	2.237	0.881	22588	1.36	2	111.9	69.5	130.5	
Zn	66	1	He	21.372	21.372	1.246	39373	0.27	20	106.9	69.5	130.5	
As	75	1	He	5.109	5.109	2.914	7331	2.20	5	102.2	69.5	130.5	
Se	78	1	He	5.241	5.241	5.753	744	4.51	5	104.8	69.5	130.5	
Sr	88	1	He	10.239	10.239	2.220	89073	1.95	10	102.4	69.5	130.5	
Mo	95	1	He	10.272	10.272	1.233	40705	1.28	10	102.7	69.5	130.5	
Ag	107	1	He	1.039	1.039	4.289	13127	1.99	1	103.9	69.5	130.5	
Cd	111	1	He	1.030	1.030	1.806	3579	1.49	1	103.0	69.5	130.5	
Sn	118	1	He	9.727	9.727	1.948	55306	1.92	10	97.3	69.5	130.5	
Sb	123	1	He	2.249	2.249	2.922	12753	3.34	2	112.5	69.5	130.5	
Ba	137	1	He	5.176	5.176	4.686	13066	4.35	5	103.5	69.5	130.5	
W	182	1	He	9.801	9.801	1.592	107774	0.96	10	98.0	69.5	130.5	
Tl	205	1	He	2.046	2.046	1.096	53865	0.62	2	102.3	69.5	130.5	
Pb	208	1	He	1.068	1.068	3.496	38703	2.15	1	106.8	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2177257	0.21	2317135	93.96	30	120	
Sc	45	1	He	918332	1.05	926381	99.13	30	120	
Sc	45	2	NoGas	8680474	0.88	8695701	99.82	30	120	
Rh	103	1	He	2249358	2.43	2215799	101.51	30	120	
In	115	1	He	1364644	0.62	1382146	98.73	30	120	
Tb	159	1	He	3232684	1.42	3202579	100.94	30	120	
Ho	165	1	He	3281405	1.28	3234085	101.46	30	120	
Bi	209	1	He	2286144	1.51	2214527	103.23	30	120	

Sample Report

Sample Table

Sample Name	240-49152-m-1-a@5
Data File Name	043SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T11:58:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.160	0.160	8.69	1259	0.01	10000	
B	11	45	2	NoGas	167.993	167.993	1.21	690138	0.02	300	
Na	23	45	1	He	99635.243	99635.243	1.97	183140682	0.05	500000	
Mg	24	45	1	He	900.184	900.184	2.35	951050	0.09	500000	
Al	27	45	1	He	15.500	15.500	2.89	20070	0.08	200000	
K	39	45	1	He	1577.551	1577.551	2.75	1850194	0.09	500000	
Ca	44	45	1	He	3067.296	3067.296	1.31	176405	1.74	500000	
Ti	47	45	1	He	0.119	0.119	34.31	54	0.22	2500	
V	51	45	1	He	0.097	0.097	99.49	1315	0.01	10000	
Cr	52	45	1	He	0.281	0.281	5.94	6581	0.00	10000	
Mn	55	45	1	He	3.740	3.740	2.11	28794	0.01	10000	
Fe	56	45	1	He	35.579	35.579	1.13	319104	0.01	200000	
Co	59	45	1	He	0.028	0.028	19.72	683	0.00	10000	
Ni	60	45	1	He	-0.038	-0.038	-11.17	519	-0.01	10000	
Cu	63	45	1	He	0.081	0.081	31.11	4570	0.00	10000	
Zn	66	45	1	He	0.598	0.598	30.09	3563	0.02	10000	
As	75	115	1	He	0.789	0.789	1.01	1299	0.06	10000	
Se	78	115	1	He	0.232	0.232	11.49	157	0.15	10000	
Sr	88	45	1	He	101.668	101.668	1.65	868208	0.01	10000	
Mo	95	103	1	He	4.407	4.407	1.84	16630	0.03	2000	
Ag	107	103	1	He	0.003	0.003	40.15	53	0.00	300	
Cd	111	115	1	He	0.056	0.056	38.03	1439	0.00	4000	
Sn	118	115	1	He	0.193	0.193	24.18	4141	0.00	2000	
Sb	123	115	1	He	0.119	0.119	24.36	723	0.02	300	
Ba	137	115	1	He	46.048	46.048	0.42	111473	0.04	10000	
W	182	159	1	He	0.427	0.427	17.49	7643	0.01	2500	
Tl	205	165	1	He	0.010	0.010	36.77	677	0.00	5000	
Pb	208	165	1	He	0.043	0.043	12.02	2677	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2082637	2.42	2317135	89.88	30	120	
Sc	45	1	He	906223	2.15	926381	97.82	30	120	
Sc	45	2	NoGas	8614102	1.52	8695701	99.06	30	120	
Rh	103	1	He	2137790	0.97	2215799	96.48	30	120	
In	115	1	He	1315131	0.73	1382146	95.15	30	120	
Tb	159	1	He	3200031	0.56	3202579	99.92	30	120	
Ho	165	1	He	3252577	1.36	3234085	100.57	30	120	
Bi	209	1	He	2205826	0.20	2214527	99.61	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49152-m-1-a@25
Data File Name	044SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:02:21-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.123	0.123	19.77	1052	0.01	10000	
B	11	45	2	NoGas	31.692	31.692	3.25	162760	0.02	300	
Na	23	45	1	He	20957.945	20957.945	0.82	38700651	0.05	500000	
Mg	24	45	1	He	185.387	185.387	3.44	201205	0.09	500000	
Al	27	45	1	He	11.078	11.078	2.58	17596	0.06	200000	
K	39	45	1	He	315.435	315.435	1.59	437762	0.07	500000	
Ca	44	45	1	He	636.681	636.681	1.28	38312	1.66	500000	
Ti	47	45	1	He	-0.006	-0.006	-612.78	14	-0.04	2500	
V	51	45	1	He	0.003	0.003	3062.53	551	0.00	10000	
Cr	52	45	1	He	0.051	0.051	24.01	4491	0.00	10000	
Mn	55	45	1	He	0.808	0.808	4.24	7963	0.01	10000	
Fe	56	45	1	He	7.393	7.393	2.77	78386	0.01	200000	
Co	59	45	1	He	0.002	0.002	172.22	361	0.00	10000	
Ni	60	45	1	He	-0.097	-0.097	-5.27	337	-0.03	10000	
Cu	63	45	1	He	0.127	0.127	14.47	4964	0.00	10000	
Zn	66	45	1	He	0.458	0.458	18.15	3333	0.01	10000	
As	75	115	1	He	0.177	0.177	5.89	502	0.04	10000	
Se	78	115	1	He	-0.037	-0.037	-250.24	132	-0.03	10000	
Sr	88	45	1	He	20.956	20.956	1.91	179965	0.01	10000	
Mo	95	103	1	He	0.940	0.940	1.66	3735	0.03	2000	
Ag	107	103	1	He	0.001	0.001	60.21	41	0.00	300	
Cd	111	115	1	He	0.026	0.026	151.90	1431	0.00	4000	
Sn	118	115	1	He	-0.011	-0.011	-250.78	3208	0.00	2000	
Sb	123	115	1	He	0.051	0.051	5.32	368	0.01	300	
Ba	137	115	1	He	9.201	9.201	1.51	23218	0.04	10000	
W	182	159	1	He	0.142	0.142	16.81	4731	0.00	2500	
Tl	205	165	1	He	0.005	0.005	24.63	564	0.00	5000	
Pb	208	165	1	He	0.014	0.014	13.22	1701	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2143049	0.36	2317135	92.49	30	120	
Sc	45	1	He	909211	1.15	926381	98.15	30	120	
Sc	45	2	NoGas	8631382	0.93	8695701	99.26	30	120	
Rh	103	1	He	2226525	0.48	2215799	100.48	30	120	
In	115	1	He	1367495	0.33	1382146	98.94	30	120	
Tb	159	1	He	3266699	0.95	3202579	102.00	30	120	
Ho	165	1	He	3321963	0.57	3234085	102.72	30	120	
Bi	209	1	He	2301579	0.78	2214527	103.93	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49152-m-1-a@5
Data File Name	045SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:06:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1066.085	1066.085	1.43	6668967	0.02	10000	
B	11	45	2	NoGas	286.982	286.982	2.88	1106655	0.03	300	
Na	23	45	1	He	105500.148	105500.148	3.67	187122263	0.06	500000	
Mg	24	45	1	He	10967.796	10967.796	4.16	11117260	0.10	500000	
Al	27	45	1	He	10136.233	10136.233	3.70	5616190	0.18	200000	
K	39	45	1	He	11449.942	11449.942	4.30	12457335	0.09	500000	
Ca	44	45	1	He	11973.464	11973.464	4.68	658670	1.82	500000	
Ti	47	45	1	He	100.930	100.930	2.92	31172	0.32	2500	
V	51	45	1	He	1035.637	1035.637	3.68	8049821	0.01	10000	
Cr	52	45	1	He	1028.477	1028.477	3.41	9081217	0.01	10000	
Mn	55	45	1	He	996.345	996.345	3.74	6842937	0.01	10000	
Fe	56	45	1	He	10223.495	10223.495	4.63	84321817	0.01	200000	
Co	59	45	1	He	1052.246	1052.246	3.69	12871655	0.01	10000	
Ni	60	45	1	He	1076.211	1076.211	4.54	3266028	0.03	10000	
Cu	63	45	1	He	1057.085	1057.085	4.35	8380652	0.01	10000	
Zn	66	45	1	He	1113.576	1113.576	3.34	1827838	0.06	10000	
As	75	115	1	He	1028.040	1028.040	0.56	1266315	0.08	10000	
Se	78	115	1	He	1018.013	1018.013	1.10	105157	0.97	10000	
Sr	88	45	1	He	1170.400	1170.400	3.42	9639608	0.01	10000	
Mo	95	103	1	He	109.820	109.820	3.89	396317	0.03	2000	
Ag	107	103	1	He	100.964	100.964	2.68	1161496	0.01	300	
Cd	111	115	1	He	1150.428	1150.428	1.86	2192301	0.05	4000	
Sn	118	115	1	He	1120.443	1120.443	0.50	5333692	0.02	2000	
Sb	123	115	1	He	109.768	109.768	0.64	549946	0.02	300	
Ba	137	115	1	He	1207.981	1207.981	2.92	2696758	0.04	10000	
W	182	159	1	He	99.526	99.526	0.70	1034176	0.01	2500	
Tl	205	165	1	He	261.200	261.200	1.01	6548054	0.00	5000	
Pb	208	165	1	He	1051.353	1051.353	1.21	35454449	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1998112	1.50	2317135	86.23	30	120	
Sc	45	1	He	875163	4.47	926381	94.47	30	120	
Sc	45	2	NoGas	8286325	1.94	8695701	95.29	30	120	
Rh	103	1	He	2051859	2.80	2215799	92.60	30	120	
In	115	1	He	1213473	0.26	1382146	87.80	30	120	
Tb	159	1	He	3137160	1.14	3202579	97.96	30	120	
Ho	165	1	He	3148066	1.69	3234085	97.34	30	120	
Bi	209	1	He	2121995	2.85	2214527	95.82	30	120	

Sample Report

Sample Table

Sample Name	240-49152-m-1-b ms@5
Data File Name	046SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:09:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	209.699	209.699	2.12	1356996	0.02	10000	
B	11	45	2	NoGas	189.066	189.066	1.95	752833	0.03	300	
Na	23	45	1	He	100340.113	100340.113	0.31	178378126	0.06	500000	
Mg	24	45	1	He	3021.716	3021.716	1.21	3074381	0.10	500000	
Al	27	45	1	He	2128.327	2128.327	0.74	1190511	0.18	200000	
K	39	45	1	He	3636.693	3636.693	0.98	4021069	0.09	500000	
Ca	44	45	1	He	4910.356	4910.356	1.28	271948	1.81	500000	
Ti	47	45	1	He	21.695	21.695	4.33	6727	0.32	2500	
V	51	45	1	He	227.023	227.023	1.39	1769059	0.01	10000	
Cr	52	45	1	He	220.760	220.760	1.16	1956604	0.01	10000	
Mn	55	45	1	He	220.641	220.641	1.32	1520465	0.01	10000	
Fe	56	45	1	He	2180.313	2180.313	0.40	18040307	0.01	200000	
Co	59	45	1	He	223.236	223.236	0.22	2737032	0.01	10000	
Ni	60	45	1	He	212.054	212.054	0.42	645678	0.03	10000	
Cu	63	45	1	He	228.529	228.529	0.29	1819279	0.01	10000	
Zn	66	45	1	He	218.616	218.616	0.95	361606	0.06	10000	
As	75	115	1	He	205.707	205.707	0.85	268467	0.08	10000	
Se	78	115	1	He	204.053	204.053	0.05	22420	0.91	10000	
Sr	88	45	1	He	331.394	331.394	0.73	2735871	0.01	10000	
Mo	95	103	1	He	27.728	27.728	3.05	102966	0.03	2000	
Ag	107	103	1	He	20.889	20.889	2.26	247170	0.01	300	
Cd	111	115	1	He	209.518	209.518	1.39	423769	0.05	4000	
Sn	118	115	1	He	216.118	216.118	1.22	1091729	0.02	2000	
Sb	123	115	1	He	21.828	21.828	0.33	115851	0.02	300	
Ba	137	115	1	He	251.644	251.644	1.25	594811	0.04	10000	
W	182	159	1	He	21.928	21.928	0.72	231960	0.01	2500	
Tl	205	165	1	He	49.819	49.819	1.56	1249138	0.00	5000	
Pb	208	165	1	He	219.575	219.575	2.34	7405375	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2067011	1.90	2317135	89.21	30	120	
Sc	45	1	He	876227	0.31	926381	94.59	30	120	
Sc	45	2	NoGas	8403424	0.47	8695701	96.64	30	120	
Rh	103	1	He	2109890	1.84	2215799	95.22	30	120	
In	115	1	He	1284813	0.60	1382146	92.96	30	120	
Tb	159	1	He	3160798	1.48	3202579	98.70	30	120	
Ho	165	1	He	3148195	1.26	3234085	97.34	30	120	
Bi	209	1	He	2168145	1.05	2214527	97.91	30	120	

Sample Report

Sample Table

Sample Name	240-49152-m-1-c msd@5
Data File Name	047SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:13:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	221.454	221.454	0.47	1412042	0.02	10000	
B	11	45	2	NoGas	200.016	200.016	1.50	783480	0.03	300	
Na	23	45	1	He	105164.799	105164.799	0.33	190071555	0.06	500000	
Mg	24	45	1	He	3160.905	3160.905	2.36	3268519	0.10	500000	
Al	27	45	1	He	2245.695	2245.695	3.61	1275950	0.18	200000	
K	39	45	1	He	3821.146	3821.146	1.91	4290199	0.09	500000	
Ca	44	45	1	He	5058.684	5058.684	2.42	284695	1.78	500000	
Ti	47	45	1	He	21.986	21.986	6.24	6929	0.32	2500	
V	51	45	1	He	229.845	229.845	2.83	1820326	0.01	10000	
Cr	52	45	1	He	224.919	224.919	1.16	2026367	0.01	10000	
Mn	55	45	1	He	225.699	225.699	2.28	1580729	0.01	10000	
Fe	56	45	1	He	2230.719	2230.719	1.65	18760980	0.01	200000	
Co	59	45	1	He	228.277	228.277	1.50	2844896	0.01	10000	
Ni	60	45	1	He	215.817	215.817	1.66	667928	0.03	10000	
Cu	63	45	1	He	233.494	233.494	1.53	1889489	0.01	10000	
Zn	66	45	1	He	221.065	221.065	1.17	371692	0.06	10000	
As	75	115	1	He	214.297	214.297	0.66	278973	0.08	10000	
Se	78	115	1	He	211.914	211.914	1.20	23220	0.91	10000	
Sr	88	45	1	He	341.954	341.954	1.36	2869886	0.01	10000	
Mo	95	103	1	He	27.186	27.186	1.06	101865	0.03	2000	
Ag	107	103	1	He	21.338	21.338	1.13	254734	0.01	300	
Cd	111	115	1	He	217.344	217.344	0.51	438450	0.05	4000	
Sn	118	115	1	He	217.951	217.951	0.61	1098184	0.02	2000	
Sb	123	115	1	He	22.590	22.590	0.36	119587	0.02	300	
Ba	137	115	1	He	262.677	262.677	0.78	619345	0.04	10000	
W	182	159	1	He	21.572	21.572	1.13	232327	0.01	2500	
Tl	205	165	1	He	50.918	50.918	1.14	1298404	0.00	5000	
Pb	208	165	1	He	226.186	226.186	2.04	7758120	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2036232	1.04	2317135	87.88	30	120	
Sc	45	1	He	890811	1.85	926381	96.16	30	120	
Sc	45	2	NoGas	8290426	0.72	8695701	95.34	30	120	
Rh	103	1	He	2128198	0.69	2215799	96.05	30	120	
In	115	1	He	1281552	0.52	1382146	92.72	30	120	
Tb	159	1	He	3217168	0.45	3202579	100.46	30	120	
Ho	165	1	He	3201443	0.86	3234085	98.99	30	120	
Bi	209	1	He	2156953	1.04	2214527	97.40	30	120	

Sample Report

Sample Table

Sample Name	240-49152-m-2-a@5
Data File Name	048SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:17:07-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.330	0.330	6.75	2360	0.01	10000	
B	11	45	2	NoGas	32.450	32.450	4.20	165138	0.02	300	
Na	23	45	1	He	11330.505	11330.505	1.42	20406324	0.06	500000	
Mg	24	45	1	He	24483.025	24483.025	1.05	25136807	0.10	500000	
Al	27	45	1	He	15.806	15.806	3.53	19787	0.08	200000	
K	39	45	1	He	936.501	936.501	1.53	1106678	0.08	500000	
Ca	44	45	1	He	110456.547	110456.547	0.88	6141729	1.80	500000	
Ti	47	45	1	He	0.112	0.112	95.62	51	0.22	2500	
V	51	45	1	He	0.112	0.112	108.93	1394	0.01	10000	
Cr	52	45	1	He	0.325	0.325	8.38	6828	0.00	10000	
Mn	55	45	1	He	9.570	9.570	0.71	68706	0.01	10000	
Fe	56	45	1	He	18.390	18.390	4.14	168299	0.01	200000	
Co	59	45	1	He	0.134	0.134	4.92	1989	0.01	10000	
Ni	60	45	1	He	0.737	0.737	4.36	2890	0.03	10000	
Cu	63	45	1	He	0.351	0.351	12.13	6639	0.01	10000	
Zn	66	45	1	He	1.114	1.114	6.06	4337	0.03	10000	
As	75	115	1	He	0.349	0.349	10.44	709	0.05	10000	
Se	78	115	1	He	0.552	0.552	17.70	192	0.29	10000	
Sr	88	45	1	He	313.892	313.892	1.34	2619213	0.01	10000	
Mo	95	103	1	He	0.940	0.940	5.41	3597	0.03	2000	
Ag	107	103	1	He	0.004	0.004	55.07	77	0.01	300	
Cd	111	115	1	He	0.148	0.148	22.45	1622	0.01	4000	
Sn	118	115	1	He	2.407	2.407	6.60	15474	0.02	2000	
Sb	123	115	1	He	0.241	0.241	7.33	1381	0.02	300	
Ba	137	115	1	He	2.311	2.311	4.00	5634	0.04	10000	
W	182	159	1	He	0.688	0.688	7.83	10441	0.01	2500	
Tl	205	165	1	He	0.078	0.078	21.93	2418	0.00	5000	
Pb	208	165	1	He	0.100	0.100	19.37	4635	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2072461	0.86	2317135	89.44	30	120	
Sc	45	1	He	885684	0.81	926381	95.61	30	120	
Sc	45	2	NoGas	8603998	1.02	8695701	98.95	30	120	
Rh	103	1	He	2145636	1.95	2215799	96.83	30	120	
In	115	1	He	1308754	0.71	1382146	94.69	30	120	
Tb	159	1	He	3208936	1.18	3202579	100.20	30	120	
Ho	165	1	He	3236104	1.96	3234085	100.06	30	120	
Bi	209	1	He	2208805	0.99	2214527	99.74	30	120	

Sample Report

Sample Table

Sample Name	240-49152-m-6-a@5
Data File Name	049SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:20:56-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.245	0.245	11.41	1863	0.01	10000	
B	11	45	2	NoGas	223.543	223.543	1.54	916240	0.02	300	
Na	23	45	1	He	105985.083	105985.083	1.31	197473296	0.05	500000	
Mg	24	45	1	He	1224.541	1224.541	0.52	1309547	0.09	500000	
Al	27	45	1	He	105.087	105.087	5.15	72429	0.15	200000	
K	39	45	1	He	1777.693	1777.693	3.06	2102563	0.08	500000	
Ca	44	45	1	He	4640.567	4640.567	0.52	269516	1.72	500000	
Ti	47	45	1	He	0.785	0.785	18.18	271	0.29	2500	
V	51	45	1	He	0.152	0.152	127.71	1755	0.01	10000	
Cr	52	45	1	He	0.424	0.424	4.77	7995	0.01	10000	
Mn	55	45	1	He	36.133	36.133	1.36	262825	0.01	10000	
Fe	56	45	1	He	177.314	177.314	0.93	1551792	0.01	200000	
Co	59	45	1	He	0.249	0.249	2.83	3539	0.01	10000	
Ni	60	45	1	He	0.227	0.227	12.48	1373	0.02	10000	
Cu	63	45	1	He	0.517	0.517	1.57	8270	0.01	10000	
Zn	66	45	1	He	3.240	3.240	3.31	8159	0.04	10000	
As	75	115	1	He	1.142	1.142	1.86	1802	0.06	10000	
Se	78	115	1	He	0.222	0.222	45.97	159	0.14	10000	
Sr	88	45	1	He	118.297	118.297	1.20	1023935	0.01	10000	
Mo	95	103	1	He	5.031	5.031	3.71	19310	0.03	2000	
Ag	107	103	1	He	0.004	0.004	28.00	71	0.01	300	
Cd	111	115	1	He	0.136	0.136	21.87	1633	0.01	4000	
Sn	118	115	1	He	0.995	0.995	5.41	8417	0.01	2000	
Sb	123	115	1	He	0.123	0.123	9.10	760	0.02	300	
Ba	137	115	1	He	41.325	41.325	1.18	101803	0.04	10000	
W	182	159	1	He	0.240	0.240	17.06	5761	0.00	2500	
Tl	205	165	1	He	0.019	0.019	7.27	902	0.00	5000	
Pb	208	165	1	He	0.153	0.153	7.06	6516	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2136926	1.93	2317135	92.22	30	120	
Sc	45	1	He	918544	2.09	926381	99.15	30	120	
Sc	45	2	NoGas	8719418	0.73	8695701	100.27	30	120	
Rh	103	1	He	2175409	0.35	2215799	98.18	30	120	
In	115	1	He	1338123	0.47	1382146	96.81	30	120	
Tb	159	1	He	3252990	0.78	3202579	101.57	30	120	
Ho	165	1	He	3258993	1.06	3234085	100.77	30	120	
Bi	209	1	He	2194124	1.88	2214527	99.08	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176117/1-a
Data File Name	050_Blk.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:24:44-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.221	20.3	1630	18.0	1	
B	11	45	2	NoGas	8.275	4.2	69515	1.8	20	
Na	23	45	1	He	48.290	8.5	141771	8.1	400	
Mg	24	45	1	He	-3.203	-4.4	2493	3.2	1000	
Al	27	45	1	He	-17.135	-0.7	1353	4.9	50	
K	39	45	1	He	0.699	218.9	82985	1.4	1000	
Ca	44	45	1	He	-16.795	-8.0	1015	10.9	1000	
Ti	47	45	1	He	0.069	119.5	38	66.8	20	
V	51	45	1	He	0.272	63.3	2666	49.3	2	
Cr	52	45	1	He	1.110	6.7	14056	1.9	2	
Mn	55	45	1	He	-0.173	-6.1	949	9.4	2	
Fe	56	45	1	He	1.710	3.0	29350	4.5	50	
Co	59	45	1	He	0.108	2.6	1689	3.2	1	
Ni	60	45	1	He	-0.042	-40.9	504	9.6	2	
Cu	63	45	1	He	0.142	11.1	5033	2.4	2	
Zn	66	45	1	He	1.338	13.1	4780	4.9	20	
As	75	115	1	He	0.321	2.7	677	1.7	2	
Se	78	115	1	He	0.128	66.6	146	6.8	2	
Sr	88	45	1	He	0.074	2.1	1129	3.4	10	
Mo	95	103	1	He	0.194	13.5	820	13.3	2	
Ag	107	103	1	He	0.003	55.7	61	35.5	0.2	
Cd	111	115	1	He	0.104	39.3	1543	5.7	0.2	
Sn	118	115	1	He	2.185	3.6	14455	2.6	10	
Sb	123	115	1	He	0.091	4.4	572	3.8	1	
Ba	137	115	1	He	0.070	20.3	240	14.1	5	
W	182	159	1	He	0.149	16.5	4745	5.7	10	
Tl	205	165	1	He	0.026	8.1	1081	5.5	0.5	
Pb	208	165	1	He	0.060	5.4	3269	3.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2040654	0.70	2317135	88.07	30	120	
Sc	45	1	He	899714	3.28	926381	97.12	30	120	
Sc	45	2	NoGas	8343391	0.17	8695701	95.95	30	120	
Rh	103	1	He	2248618	1.80	2215799	101.48	30	120	
In	115	1	He	1319313	0.26	1382146	95.45	30	120	
Tb	159	1	He	3222487	0.83	3202579	100.62	30	120	
Ho	165	1	He	3259714	0.68	3234085	100.79	30	120	
Bi	209	1	He	2293114	0.84	2214527	103.55	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176117/2-a
Data File Name	051_LCS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:28:36-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1013.953	1013.953	2.071	6182738	0.23	1000	101.4	79.5	120.5	
B	11	2	NoGas	114.870	114.870	1.011	453910	0.28	100	114.9	79.5	120.5	
Na	23	1	He	10184.113	10184.113	2.670	17654801	0.47	10000	101.8	79.5	120.5	
Mg	24	1	He	10202.227	10202.227	2.084	10083959	0.48	10000	102.0	79.5	120.5	
Al	27	1	He	10082.334	10082.334	1.824	5446873	0.75	10000	100.8	79.5	120.5	
K	39	1	He	10047.096	10047.096	2.915	10667360	0.85	10000	100.5	79.5	120.5	
Ca	44	1	He	9052.626	9052.626	2.014	486135	0.56	10000	90.5	79.5	120.5	
Ti	47	1	He	100.884	100.884	1.704	30378	2.21	100	100.9	79.5	120.5	
V	51	1	He	1028.575	1028.575	3.352	7793144	0.87	1000	102.9	79.5	120.5	
Cr	52	1	He	1044.643	1044.643	2.422	8991843	0.67	1000	104.5	79.5	120.5	
Mn	55	1	He	996.183	996.183	2.408	6670116	0.68	1000	99.6	79.5	120.5	
Fe	56	1	He	10385.583	10385.583	2.619	83528814	0.16	10000	103.9	79.5	120.5	
Co	59	1	He	1048.786	1048.786	2.693	12505782	0.33	1000	104.9	79.5	120.5	
Ni	60	1	He	1090.998	1090.998	2.945	3229026	2.41	1000	109.1	79.5	120.5	
Cu	63	1	He	1097.026	1097.026	3.722	8480040	2.38	1000	109.7	79.5	120.5	
Zn	66	1	He	1117.718	1117.718	3.215	1789980	5.63	1000	111.8	79.5	120.5	
As	75	1	He	996.707	996.707	0.621	1230367	0.24	1000	99.7	79.5	120.5	
Se	78	1	He	1003.355	1003.355	0.688	103868	0.29	1000	100.3	79.5	120.5	
Sr	88	1	He	1051.913	1051.913	2.724	8445526	0.79	1000	105.2	79.5	120.5	
Mo	95	1	He	106.201	106.201	3.622	394553	0.67	100	106.2	79.5	120.5	
Ag	107	1	He	102.038	102.038	3.003	1208361	0.25	100	102.0	79.5	120.5	
Cd	111	1	He	1137.387	1137.387	3.069	2171948	2.70	1000	113.7	79.5	120.5	
Sn	118	1	He	1136.939	1136.939	1.719	5423805	1.60	1000	113.7	79.5	120.5	
Sb	123	1	He	107.373	107.373	0.430	539111	0.34	100	107.4	79.5	120.5	
Ba	137	1	He	1108.523	1108.523	3.225	2479766	2.82	1000	110.9	79.5	120.5	
W	182	1	He	102.057	102.057	1.429	1075776	1.35	100	102.1	79.5	120.5	
Tl	205	1	He	254.695	254.695	1.160	6512895	2.51	250	101.9	79.5	120.5	
Pb	208	1	He	1040.923	1040.923	2.566	35796736	0.91	1000	104.1	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1947951	1.89	2317135	84.07	30	120	
Sc	45	1	He	852636	2.59	926381	92.04	30	120	
Sc	45	2	NoGas	8071275	1.04	8695701	92.82	30	120	
Rh	103	1	He	2112455	3.13	2215799	95.34	30	120	
In	115	1	He	1216094	0.40	1382146	87.99	30	120	
Tb	159	1	He	3183614	2.76	3202579	99.41	30	120	
Ho	165	1	He	3211160	2.41	3234085	99.29	30	120	
Bi	209	1	He	2207391	2.22	2214527	99.68	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	052_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:32:10-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.512	1.595	324651	2.26	50	97.0	89.5	110.5	
B	11	45	2	NoGas	50.939	0.962	238681	1.27	50	101.9	89.5	110.5	
Na	23	45	1	He	25315.912	1.976	47534126	1.44	25000	101.3	89.5	110.5	
Mg	24	45	1	He	25560.768	2.487	27396627	1.02	25000	102.2	89.5	110.5	
Al	27	45	1	He	236.654	3.024	149815	0.90	250	94.7	89.5	110.5	
K	39	45	1	He	25614.078	2.933	29370074	0.82	25000	102.5	89.5	110.5	
Ca	44	45	1	He	25503.353	2.342	1482003	1.24	25000	102.0	89.5	110.5	
Ti	47	45	1	He	51.126	4.514	16698	1.94	50	102.3	89.5	110.5	
V	51	45	1	He	51.044	4.201	419962	1.15	50	102.1	89.5	110.5	
Cr	52	45	1	He	51.581	3.592	485403	0.40	50	103.2	89.5	110.5	
Mn	55	45	1	He	256.791	3.907	1866299	1.24	250	102.7	89.5	110.5	
Fe	56	45	1	He	12774.676	3.227	111439698	0.61	12500	102.2	89.5	110.5	
Co	59	45	1	He	51.722	2.574	669379	0.90	50	103.4	89.5	110.5	
Ni	60	45	1	He	51.290	2.402	165283	1.01	50	102.6	89.5	110.5	
Cu	63	45	1	He	52.690	2.395	445679	1.07	50	105.4	89.5	110.5	
Zn	66	45	1	He	51.431	2.339	91751	1.17	50	102.9	89.5	110.5	
As	75	115	1	He	51.205	1.196	69322	0.80	50	102.4	89.5	110.5	
Se	78	115	1	He	50.485	1.095	5838	0.71	50	101.0	89.5	110.5	
Sr	88	45	1	He	51.161	2.766	446065	0.65	50	102.3	89.5	110.5	
Mo	95	103	1	He	51.053	1.534	197044	2.27	50	102.1	89.5	110.5	
Ag	107	103	1	He	50.514	1.470	621212	0.69	50	101.0	89.5	110.5	
Cd	111	115	1	He	51.577	1.222	108932	0.81	50	103.2	89.5	110.5	
Sn	118	115	1	He	51.216	2.774	270067	2.35	50	102.4	89.5	110.5	
Sb	123	115	1	He	52.638	1.132	288903	0.75	50	105.3	89.5	110.5	
Ba	137	115	1	He	50.801	1.613	124285	1.31	50	101.6	89.5	110.5	
W	182	159	1	He	50.553	1.003	547104	0.32	50	101.1	89.5	110.5	
Tl	205	165	1	He	48.754	0.763	1284627	1.42	50	97.5	89.5	110.5	
Pb	208	165	1	He	49.475	0.493	1754397	0.87	50	99.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2135753	0.67	2317135	92.17	30	120	
Sc	45	1	He	925088	3.44	926381	99.86	30	120	
Sc	45	2	NoGas	8677167	1.14	8695701	99.79	30	120	
Rh	103	1	He	2192470	0.79	2215799	98.95	30	120	
In	115	1	He	1329188	0.40	1382146	96.17	30	120	
Tb	159	1	He	3258441	1.33	3202579	101.74	30	120	
Ho	165	1	He	3307819	1.07	3234085	102.28	30	120	
Bi	209	1	He	2229528	0.39	2214527	100.68	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	053_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:36:00-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.238	10.1	1922	10.7	1	
B	11	45	2	NoGas	0.232	126.0	41592	3.4	20	
Na	23	45	1	He	9.230	12.2	70356	2.4	400	
Mg	24	45	1	He	-2.911	-20.1	2797	21.0	1000	
Al	27	45	1	He	-17.791	-0.8	980	7.5	50	
K	39	45	1	He	2.734	50.3	85271	0.6	1000	
Ca	44	45	1	He	-26.662	-3.6	456	10.8	1000	
Ti	47	45	1	He	0.121	11.8	54	7.1	20	
V	51	45	1	He	0.033	168.2	779	55.6	2	
Cr	52	45	1	He	0.041	30.8	4359	3.9	2	
Mn	55	45	1	He	-0.201	-0.4	746	1.6	2	
Fe	56	45	1	He	14.050	32.2	133864	27.9	50	
Co	59	45	1	He	0.036	9.2	778	4.7	1	
Ni	60	45	1	He	-0.095	-32.1	337	27.6	2	
Cu	63	45	1	He	0.121	11.6	4866	1.5	2	
Zn	66	45	1	He	-0.803	-2.2	1171	1.7	20	
As	75	115	1	He	0.064	25.5	346	6.3	2	
Se	78	115	1	He	0.114	114.5	150	10.4	2	
Sr	88	45	1	He	-0.010	-19.8	417	4.2	10	
Mo	95	103	1	He	1.097	19.9	4484	19.7	2	
Ag	107	103	1	He	0.006	57.6	98	43.2	0.2	
Cd	111	115	1	He	0.104	6.6	1607	1.3	0.2	
Sn	118	115	1	He	0.420	18.7	5553	7.5	10	
Sb	123	115	1	He	0.363	13.7	2142	12.9	1	
Ba	137	115	1	He	0.027	39.9	142	18.8	5	
W	182	159	1	He	1.262	17.8	17191	14.3	10	
Tl	205	165	1	He	0.070	14.7	2252	11.2	0.5	
Pb	208	165	1	He	0.039	18.3	2566	9.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2258285	2.09	2317135	97.46	30	120	
Sc	45	1	He	899694	1.31	926381	97.12	30	120	
Sc	45	2	NoGas	8817365	1.17	8695701	101.40	30	120	
Rh	103	1	He	2295398	1.40	2215799	103.59	30	120	
In	115	1	He	1375222	0.49	1382146	99.50	30	120	
Tb	159	1	He	3340785	0.08	3202579	104.32	30	120	
Ho	165	1	He	3302344	0.76	3234085	102.11	30	120	
Bi	209	1	He	2273696	0.99	2214527	102.67	30	120	

Sample Report

Sample Table

Sample Name	240-49210-a-2-a
Data File Name	054SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:39:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.276	0.276	9.06	1971	0.01	10000	
B	11	45	2	NoGas	26.405	26.405	0.91	138967	0.02	300	
Na	23	45	1	He	13446.749	13446.749	3.36	24488087	0.05	500000	
Mg	24	45	1	He	11628.777	11628.777	4.53	12077566	0.10	500000	
Al	27	45	1	He	-16.125	-16.125	-1.27	1920	-0.84	200000	
K	39	45	1	He	1297.814	1297.814	5.44	1519485	0.09	500000	
Ca	44	45	1	He	63372.916	63372.916	4.00	3565011	1.78	500000	
Ti	47	45	1	He	0.192	0.192	20.35	77	0.25	2500	
V	51	45	1	He	0.406	0.406	3.40	3753	0.01	10000	
Cr	52	45	1	He	1.313	1.313	5.80	15843	0.01	10000	
Mn	55	45	1	He	-0.066	-0.066	-22.30	1695	0.00	10000	
Fe	56	45	1	He	5.041	5.041	8.76	57502	0.01	200000	
Co	59	45	1	He	0.156	0.156	4.56	2286	0.01	10000	
Ni	60	45	1	He	0.126	0.126	20.23	1023	0.01	10000	
Cu	63	45	1	He	1.931	1.931	4.94	19549	0.01	10000	
Zn	66	45	1	He	2.955	2.955	8.53	7475	0.04	10000	
As	75	115	1	He	0.743	0.743	4.80	1210	0.06	10000	
Se	78	115	1	He	0.417	0.417	26.37	174	0.24	10000	
Sr	88	45	1	He	137.123	137.123	2.84	1157915	0.01	10000	
Mo	95	103	1	He	0.503	0.503	11.24	1922	0.03	2000	
Ag	107	103	1	He	0.005	0.005	36.27	80	0.01	300	
Cd	111	115	1	He	0.124	0.124	27.97	1544	0.01	4000	
Sn	118	115	1	He	1.543	1.543	9.39	10848	0.01	2000	
Sb	123	115	1	He	0.222	0.222	2.19	1256	0.02	300	
Ba	137	115	1	He	100.733	100.733	0.29	238293	0.04	10000	
W	182	159	1	He	0.404	0.404	18.40	7495	0.01	2500	
Tl	205	165	1	He	0.042	0.042	6.14	1500	0.00	5000	
Pb	208	165	1	He	0.079	0.079	9.68	3949	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2029639	0.38	2317135	87.59	30	120	
Sc	45	1	He	896624	3.55	926381	96.79	30	120	
Sc	45	2	NoGas	8432315	0.38	8695701	96.97	30	120	
Rh	103	1	He	2118982	1.81	2215799	95.63	30	120	
In	115	1	He	1285542	0.20	1382146	93.01	30	120	
Tb	159	1	He	3242241	1.71	3202579	101.24	30	120	
Ho	165	1	He	3275145	0.36	3234085	101.27	30	120	
Bi	209	1	He	2221058	2.00	2214527	100.29	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49210-a-2-a@5
Data File Name	055SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:43:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.196	0.196	12.71	1608	0.01	10000	
B	11	45	2	NoGas	5.803	5.803	10.51	65170	0.01	300	
Na	23	45	1	He	2885.783	2885.783	0.88	5586411	0.05	500000	
Mg	24	45	1	He	2472.294	2472.294	1.04	2713456	0.09	500000	
Al	27	45	1	He	3.585	3.585	10.79	13805	0.03	200000	
K	39	45	1	He	277.783	277.783	2.25	410922	0.07	500000	
Ca	44	45	1	He	12827.769	12827.769	1.81	762690	1.68	500000	
Ti	47	45	1	He	0.002	0.002	851.05	18	0.01	2500	
V	51	45	1	He	0.045	0.045	51.43	924	0.00	10000	
Cr	52	45	1	He	0.348	0.348	4.25	7499	0.00	10000	
Mn	55	45	1	He	30.867	30.867	1.39	231314	0.01	10000	
Fe	56	45	1	He	0.701	0.701	4.70	21821	0.00	200000	
Co	59	45	1	He	0.029	0.029	4.78	724	0.00	10000	
Ni	60	45	1	He	-0.058	-0.058	-25.76	478	-0.01	10000	
Cu	63	45	1	He	0.374	0.374	6.76	7277	0.01	10000	
Zn	66	45	1	He	0.654	0.654	23.92	3810	0.02	10000	
As	75	115	1	He	0.176	0.176	16.78	510	0.03	10000	
Se	78	115	1	He	0.009	0.009	233.38	140	0.01	10000	
Sr	88	45	1	He	28.508	28.508	1.24	254245	0.01	10000	
Mo	95	103	1	He	0.154	0.154	5.67	684	0.02	2000	
Ag	107	103	1	He	0.003	0.003	24.37	70	0.00	300	
Cd	111	115	1	He	0.090	0.090	19.62	1601	0.01	4000	
Sn	118	115	1	He	0.240	0.240	27.33	4653	0.01	2000	
Sb	123	115	1	He	0.075	0.075	11.72	518	0.01	300	
Ba	137	115	1	He	20.234	20.234	1.86	52045	0.04	10000	
W	182	159	1	He	0.163	0.163	19.84	5079	0.00	2500	
Tl	205	165	1	He	0.009	0.009	30.09	667	0.00	5000	
Pb	208	165	1	He	0.019	0.019	16.12	1898	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2232168	0.31	2317135	96.33	30	120	
Sc	45	1	He	944909	1.44	926381	102.00	30	120	
Sc	45	2	NoGas	9024539	0.80	8695701	103.78	30	120	
Rh	103	1	He	2322427	2.21	2215799	104.81	30	120	
In	115	1	He	1396222	0.44	1382146	101.02	30	120	
Tb	159	1	He	3349732	0.94	3202579	104.59	30	120	
Ho	165	1	He	3366906	0.92	3234085	104.11	30	120	
Bi	209	1	He	2350798	2.08	2214527	106.15	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49210-a-2-a
Data File Name	056SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:47:31-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1059.481	1059.481	1.81	6455031	0.02	10000	
B	11	45	2	NoGas	146.506	146.506	0.77	572531	0.03	300	
Na	23	45	1	He	23940.651	23940.651	2.85	41652907	0.06	500000	
Mg	24	45	1	He	21782.180	21782.180	2.51	21636024	0.10	500000	
Al	27	45	1	He	10217.275	10217.275	2.15	5548686	0.18	200000	
K	39	45	1	He	11312.305	11312.305	2.20	12066160	0.09	500000	
Ca	44	45	1	He	72007.540	72007.540	1.90	3874593	1.86	500000	
Ti	47	45	1	He	102.168	102.168	4.82	30901	0.33	2500	
V	51	45	1	He	1059.344	1059.344	1.92	8071037	0.01	10000	
Cr	52	45	1	He	1053.810	1053.810	2.23	9119037	0.01	10000	
Mn	55	45	1	He	1016.854	1016.854	2.10	6845020	0.01	10000	
Fe	56	45	1	He	10452.557	10452.557	3.11	84503541	0.01	200000	
Co	59	45	1	He	1054.796	1054.796	3.06	12643029	0.01	10000	
Ni	60	45	1	He	1096.829	1096.829	3.89	3261906	0.03	10000	
Cu	63	45	1	He	1080.019	1080.019	2.43	8393880	0.01	10000	
Zn	66	45	1	He	1105.949	1105.949	4.14	1778164	0.06	10000	
As	75	115	1	He	1031.503	1031.503	0.71	1264349	0.08	10000	
Se	78	115	1	He	1025.858	1025.858	0.20	105449	0.97	10000	
Sr	88	45	1	He	1222.771	1222.771	3.47	9866928	0.01	10000	
Mo	95	103	1	He	110.034	110.034	1.09	406129	0.03	2000	
Ag	107	103	1	He	101.692	101.692	1.81	1196190	0.01	300	
Cd	111	115	1	He	1153.019	1153.019	1.28	2186391	0.05	4000	
Sn	118	115	1	He	1156.833	1156.833	0.90	5479884	0.02	2000	
Sb	123	115	1	He	110.471	110.471	0.59	550758	0.02	300	
Ba	137	115	1	He	1270.572	1270.572	0.14	2822475	0.05	10000	
W	182	159	1	He	103.549	103.549	1.91	1096134	0.01	2500	
Tl	205	165	1	He	258.488	258.488	1.15	6589855	0.00	5000	
Pb	208	165	1	He	1047.153	1047.153	1.64	35913334	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1946023	0.80	2317135	83.98	30	120	
Sc	45	1	He	857325	3.86	926381	92.55	30	120	
Sc	45	2	NoGas	8125635	0.53	8695701	93.44	30	120	
Rh	103	1	He	2097382	1.64	2215799	94.66	30	120	
In	115	1	He	1207525	0.22	1382146	87.37	30	120	
Tb	159	1	He	3197303	2.33	3202579	99.84	30	120	
Ho	165	1	He	3201572	1.00	3234085	98.99	30	120	
Bi	209	1	He	2146355	0.86	2214527	96.92	30	120	

Sample Report

Sample Table

Sample Name	240-49210-a-2-b ms
Data File Name	057SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:51:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1098.928	1098.928	0.48	6608142	0.02	10000	
B	11	45	2	NoGas	145.018	145.018	1.11	565947	0.03	300	
Na	23	45	1	He	25020.167	25020.167	2.36	42976641	0.06	500000	
Mg	24	45	1	He	22932.249	22932.249	0.27	22493423	0.10	500000	
Al	27	45	1	He	10595.145	10595.145	1.20	5680582	0.19	200000	
K	39	45	1	He	11959.542	11959.542	1.31	12590351	0.09	500000	
Ca	44	45	1	He	76457.230	76457.230	1.77	4061277	1.88	500000	
Ti	47	45	1	He	104.672	104.672	2.16	31274	0.33	2500	
V	51	45	1	He	1084.166	1084.166	2.23	8154151	0.01	10000	
Cr	52	45	1	He	1088.044	1088.044	1.57	9295620	0.01	10000	
Mn	55	45	1	He	1044.363	1044.363	2.22	6940216	0.02	10000	
Fe	56	45	1	He	10868.467	10868.467	1.98	86762350	0.01	200000	
Co	59	45	1	He	1089.057	1089.057	1.27	12892027	0.01	10000	
Ni	60	45	1	He	1122.152	1122.152	2.36	3296140	0.03	10000	
Cu	63	45	1	He	1121.943	1121.943	1.40	8608975	0.01	10000	
Zn	66	45	1	He	1134.252	1134.252	0.78	1801492	0.06	10000	
As	75	115	1	He	1054.083	1054.083	0.65	1284745	0.08	10000	
Se	78	115	1	He	1046.826	1046.826	0.23	106996	0.98	10000	
Sr	88	45	1	He	1256.237	1256.237	2.60	10010239	0.01	10000	
Mo	95	103	1	He	112.500	112.500	0.99	418341	0.03	2000	
Ag	107	103	1	He	104.422	104.422	1.27	1237540	0.01	300	
Cd	111	115	1	He	1182.770	1182.770	0.49	2230195	0.05	4000	
Sn	118	115	1	He	1200.993	1200.993	1.03	5656836	0.02	2000	
Sb	123	115	1	He	113.010	113.010	1.08	560235	0.02	300	
Ba	137	115	1	He	1287.652	1287.652	0.69	2844304	0.05	10000	
W	182	159	1	He	108.728	108.728	1.57	1146862	0.01	2500	
Tl	205	165	1	He	261.743	261.743	0.94	6712891	0.00	5000	
Pb	208	165	1	He	1071.257	1071.257	0.52	36960805	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1920537	0.99	2317135	82.88	30	120	
Sc	45	1	He	846099	1.64	926381	91.33	30	120	
Sc	45	2	NoGas	8109932	1.56	8695701	93.26	30	120	
Rh	103	1	He	2112844	0.44	2215799	95.35	30	120	
In	115	1	He	1200727	0.27	1382146	86.87	30	120	
Tb	159	1	He	3185378	1.19	3202579	99.46	30	120	
Ho	165	1	He	3220507	0.39	3234085	99.58	30	120	
Bi	209	1	He	2156758	0.93	2214527	97.39	30	120	

Sample Report

Sample Table

Sample Name	240-49210-a-2-c msd
Data File Name	058SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:54:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1052.964	1052.964	1.22	6409847	0.02	10000	
B	11	45	2	NoGas	140.690	140.690	0.72	549199	0.03	300	
Na	23	45	1	He	23999.174	23999.174	1.60	40958484	0.06	500000	
Mg	24	45	1	He	22202.682	22202.682	1.49	21635676	0.10	500000	
Al	27	45	1	He	10347.828	10347.828	1.48	5512051	0.19	200000	
K	39	45	1	He	11622.412	11622.412	1.27	12156931	0.10	500000	
Ca	44	45	1	He	72774.456	72774.456	0.68	3840708	1.89	500000	
Ti	47	45	1	He	103.809	103.809	0.33	30818	0.34	2500	
V	51	45	1	He	1076.330	1076.330	1.59	8042563	0.01	10000	
Cr	52	45	1	He	1066.884	1066.884	1.13	9055419	0.01	10000	
Mn	55	45	1	He	1036.929	1036.929	1.34	6846117	0.02	10000	
Fe	56	45	1	He	10677.949	10677.949	1.26	84687677	0.01	200000	
Co	59	45	1	He	1085.772	1085.772	1.68	12766693	0.01	10000	
Ni	60	45	1	He	1111.805	1111.805	1.48	3244454	0.03	10000	
Cu	63	45	1	He	1101.518	1101.518	2.69	8395782	0.01	10000	
Zn	66	45	1	He	1139.510	1139.510	1.16	1797910	0.06	10000	
As	75	115	1	He	1043.854	1043.854	0.97	1268950	0.08	10000	
Se	78	115	1	He	1033.916	1033.916	1.49	105401	0.98	10000	
Sr	88	45	1	He	1233.373	1233.373	1.27	9764950	0.01	10000	
Mo	95	103	1	He	110.522	110.522	1.08	410008	0.03	2000	
Ag	107	103	1	He	101.975	101.975	0.63	1205646	0.01	300	
Cd	111	115	1	He	1175.168	1175.168	2.22	2209867	0.05	4000	
Sn	118	115	1	He	1186.861	1186.861	0.87	5575885	0.02	2000	
Sb	123	115	1	He	111.025	111.025	0.45	548992	0.02	300	
Ba	137	115	1	He	1272.448	1272.448	1.55	2803415	0.05	10000	
W	182	159	1	He	106.334	106.334	1.61	1120703	0.01	2500	
Tl	205	165	1	He	255.628	255.628	0.94	6575073	0.00	5000	
Pb	208	165	1	He	1047.703	1047.703	1.23	36252934	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1944322	0.91	2317135	83.91	30	120	
Sc	45	1	He	840520	1.40	926381	90.73	30	120	
Sc	45	2	NoGas	8094932	0.92	8695701	93.09	30	120	
Rh	103	1	He	2107749	0.56	2215799	95.12	30	120	
In	115	1	He	1197654	1.08	1382146	86.65	30	120	
Tb	159	1	He	3182989	0.88	3202579	99.39	30	120	
Ho	165	1	He	3229855	0.51	3234085	99.87	30	120	
Bi	209	1	He	2142768	1.28	2214527	96.76	30	120	

Sample Report

Sample Table

Sample Name	190-6990-a-1-a
Data File Name	059SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T12:58:07-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.662	0.662	11.62	4345	0.02	10000	
B	11	45	2	NoGas	7.546	7.546	5.23	64959	0.01	300	
Na	23	45	1	He	93.736	93.736	3.13	216226	0.04	500000	
Mg	24	45	1	He	-0.986	-0.986	-28.07	4634	-0.02	500000	
Al	27	45	1	He	-13.453	-13.453	-0.48	3323	-0.40	200000	
K	39	45	1	He	1.176	1.176	75.41	80456	0.00	500000	
Ca	44	45	1	He	0.832	0.832	182.81	1935	0.04	500000	
Ti	47	45	1	He	0.196	0.196	12.36	76	0.26	2500	
V	51	45	1	He	0.440	0.440	51.75	3911	0.01	10000	
Cr	52	45	1	He	1.707	1.707	2.82	18762	0.01	10000	
Mn	55	45	1	He	0.490	0.490	7.04	5428	0.01	10000	
Fe	56	45	1	He	14.395	14.395	8.05	132089	0.01	200000	
Co	59	45	1	He	0.390	0.390	13.26	5057	0.01	10000	
Ni	60	45	1	He	2.850	2.850	1.45	9186	0.03	10000	
Cu	63	45	1	He	1.307	1.307	4.86	14008	0.01	10000	
Zn	66	45	1	He	6.659	6.659	2.72	13248	0.05	10000	
As	75	115	1	He	0.559	0.559	10.30	978	0.06	10000	
Se	78	115	1	He	0.678	0.678	10.48	204	0.33	10000	
Sr	88	45	1	He	0.175	0.175	19.20	1909	0.01	10000	
Mo	95	103	1	He	1.075	1.075	17.36	4247	0.03	2000	
Ag	107	103	1	He	0.011	0.011	31.17	159	0.01	300	
Cd	111	115	1	He	0.515	0.515	12.21	2354	0.02	4000	
Sn	118	115	1	He	3.287	3.287	16.67	19813	0.02	2000	
Sb	123	115	1	He	0.436	0.436	7.06	2412	0.02	300	
Ba	137	115	1	He	0.263	0.263	11.52	697	0.04	10000	
W	182	159	1	He	1.498	1.498	19.38	19142	0.01	2500	
Tl	205	165	1	He	0.263	0.263	29.36	7216	0.00	5000	
Pb	208	165	1	He	0.278	0.278	15.56	10863	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1994152	0.79	2317135	86.06	30	120	
Sc	45	1	He	866513	2.00	926381	93.54	30	120	
Sc	45	2	NoGas	8116927	1.46	8695701	93.34	30	120	
Rh	103	1	He	2217669	0.31	2215799	100.08	30	120	
In	115	1	He	1297411	0.61	1382146	93.87	30	120	
Tb	159	1	He	3232743	1.26	3202579	100.94	30	120	
Ho	165	1	He	3256712	1.14	3234085	100.70	30	120	
Bi	209	1	He	2275709	0.78	2214527	102.76	30	120	

Sample Report

Sample Table

Sample Name	190-6990-a-2-a
Data File Name	060SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:01:58-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.438	0.438	7.51	2949	0.01	10000	
B	11	45	2	NoGas	2.968	2.968	6.98	49229	0.01	300	
Na	23	45	1	He	24.724	24.724	8.66	95736	0.03	500000	
Mg	24	45	1	He	-2.613	-2.613	-12.32	3023	-0.09	500000	
Al	27	45	1	He	-11.889	-11.889	-1.91	4213	-0.28	200000	
K	39	45	1	He	-0.027	-0.027	-7497.08	79804	0.00	500000	
Ca	44	45	1	He	-8.201	-8.201	-18.59	1454	-0.56	500000	
Ti	47	45	1	He	0.107	0.107	29.99	49	0.22	2500	
V	51	45	1	He	0.314	0.314	26.16	2949	0.01	10000	
Cr	52	45	1	He	1.263	1.263	2.68	15006	0.01	10000	
Mn	55	45	1	He	-0.055	-0.055	-21.64	1732	0.00	10000	
Fe	56	45	1	He	2.986	2.986	1.83	39006	0.01	200000	
Co	59	45	1	He	0.237	0.237	3.12	3210	0.01	10000	
Ni	60	45	1	He	0.036	0.036	38.89	726	0.00	10000	
Cu	63	45	1	He	0.618	0.618	6.73	8656	0.01	10000	
Zn	66	45	1	He	6.901	6.901	0.74	13759	0.05	10000	
As	75	115	1	He	0.369	0.369	9.94	735	0.05	10000	
Se	78	115	1	He	0.198	0.198	70.29	152	0.13	10000	
Sr	88	45	1	He	0.105	0.105	9.88	1346	0.01	10000	
Mo	95	103	1	He	0.229	0.229	7.63	937	0.02	2000	
Ag	107	103	1	He	0.005	0.005	25.46	88	0.01	300	
Cd	111	115	1	He	0.260	0.260	3.59	1851	0.01	4000	
Sn	118	115	1	He	1.105	1.105	14.55	8799	0.01	2000	
Sb	123	115	1	He	0.159	0.159	4.08	937	0.02	300	
Ba	137	115	1	He	0.131	0.131	8.46	386	0.03	10000	
W	182	159	1	He	0.342	0.342	7.93	6746	0.01	2500	
Tl	205	165	1	He	0.061	0.061	10.50	1982	0.00	5000	
Pb	208	165	1	He	0.173	0.173	4.08	7191	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1996157	1.74	2317135	86.15	30	120	
Sc	45	1	He	873678	2.24	926381	94.31	30	120	
Sc	45	2	NoGas	8278754	0.70	8695701	95.21	30	120	
Rh	103	1	He	2200616	1.10	2215799	99.31	30	120	
In	115	1	He	1308960	0.30	1382146	94.70	30	120	
Tb	159	1	He	3203003	1.52	3202579	100.01	30	120	
Ho	165	1	He	3249447	0.40	3234085	100.48	30	120	
Bi	209	1	He	2297014	1.25	2214527	103.72	30	120	

Sample Report

Sample Table

Sample Name	240-49195-a-1-a
Data File Name	061SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:05:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.377	0.377	5.00	2530	0.01	10000	
B	11	45	2	NoGas	605.561	605.561	1.15	2268538	0.03	300	>LDR
Na	23	45	1	He	110891.133	110891.133	1.89	192992637	0.06	500000	
Mg	24	45	1	He	78639.662	78639.662	1.46	78197971	0.10	500000	
Al	27	45	1	He	-10.157	-10.157	-3.93	5079	-0.20	200000	
K	39	45	1	He	5640.332	5640.332	2.70	6061707	0.09	500000	
Ca	44	45	1	He	96656.726	96656.726	2.60	5205423	1.86	500000	
Ti	47	45	1	He	0.390	0.390	18.56	133	0.29	2500	
V	51	45	1	He	1.030	1.030	26.02	8336	0.01	10000	
Cr	52	45	1	He	2.634	2.634	6.13	26602	0.01	10000	
Mn	55	45	1	He	60.323	60.323	1.09	408505	0.01	10000	
Fe	56	45	1	He	4.238	4.238	2.54	48437	0.01	200000	
Co	59	45	1	He	0.184	0.184	4.79	2525	0.01	10000	
Ni	60	45	1	He	0.360	0.360	6.29	1677	0.02	10000	
Cu	63	45	1	He	0.109	0.109	14.82	4546	0.00	10000	
Zn	66	45	1	He	3.674	3.674	1.89	8321	0.04	10000	
As	75	115	1	He	0.735	0.735	10.28	1143	0.06	10000	
Se	78	115	1	He	0.564	0.564	10.73	181	0.31	10000	
Sr	88	45	1	He	6600.738	6600.738	1.84	53340326	0.01	10000	
Mo	95	103	1	He	0.133	0.133	2.13	522	0.03	2000	
Ag	107	103	1	He	0.101	0.101	8.92	1166	0.01	300	
Cd	111	115	1	He	0.177	0.177	2.74	1572	0.01	4000	
Sn	118	115	1	He	0.792	0.792	6.19	6731	0.01	2000	
Sb	123	115	1	He	0.132	0.132	1.62	741	0.02	300	
Ba	137	115	1	He	200.649	200.649	0.69	451939	0.04	10000	
W	182	159	1	He	0.978	0.978	1.78	13250	0.01	2500	
Tl	205	165	1	He	0.031	0.031	10.43	1163	0.00	5000	
Pb	208	165	1	He	0.063	0.063	4.58	3230	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1965906	0.77	2317135	84.84	30	120	
Sc	45	1	He	858012	1.73	926381	92.62	30	120	
Sc	45	2	NoGas	8196146	0.97	8695701	94.26	30	120	
Rh	103	1	He	2026218	0.61	2215799	91.44	30	120	
In	115	1	He	1224243	0.83	1382146	88.58	30	120	
Tb	159	1	He	3149218	1.11	3202579	98.33	30	120	
Ho	165	1	He	3131791	1.80	3234085	96.84	30	120	
Bi	209	1	He	2062223	0.91	2214527	93.12	30	120	

Sample Report

Sample Table

Sample Name	240-49195-a-2-a
Data File Name	062SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:09:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.363	0.363	15.63	2489	0.01	10000	
B	11	45	2	NoGas	632.876	632.876	1.27	2415279	0.03	300	>LDR
Na	23	45	1	He	110016.409	110016.409	1.54	194477163	0.06	500000	
Mg	24	45	1	He	77174.680	77174.680	1.84	77940528	0.10	500000	
Al	27	45	1	He	-12.346	-12.346	-1.02	3950	-0.31	200000	
K	39	45	1	He	4890.185	4890.185	2.17	5348824	0.09	500000	
Ca	44	45	1	He	97140.627	97140.627	2.39	5313698	1.83	500000	
Ti	47	45	1	He	0.386	0.386	16.76	134	0.29	2500	
V	51	45	1	He	0.622	0.622	31.63	5327	0.01	10000	
Cr	52	45	1	He	2.184	2.184	4.40	23067	0.01	10000	
Mn	55	45	1	He	38.339	38.339	2.11	264439	0.01	10000	
Fe	56	45	1	He	1.934	1.934	8.71	30240	0.01	200000	
Co	59	45	1	He	0.131	0.131	3.80	1915	0.01	10000	
Ni	60	45	1	He	0.150	0.150	12.64	1068	0.01	10000	
Cu	63	45	1	He	0.052	0.052	27.05	4167	0.00	10000	
Zn	66	45	1	He	1.486	1.486	10.12	4873	0.03	10000	
As	75	115	1	He	0.765	0.765	9.63	1191	0.06	10000	
Se	78	115	1	He	0.211	0.211	43.95	145	0.15	10000	
Sr	88	45	1	He	6755.818	6755.818	1.93	55449602	0.01	10000	
Mo	95	103	1	He	0.196	0.196	11.54	762	0.03	2000	
Ag	107	103	1	He	0.011	0.011	16.84	156	0.01	300	
Cd	111	115	1	He	0.154	0.154	18.11	1541	0.01	4000	
Sn	118	115	1	He	0.611	0.611	7.92	5916	0.01	2000	
Sb	123	115	1	He	0.131	0.131	7.70	743	0.02	300	
Ba	137	115	1	He	208.300	208.300	0.83	473685	0.04	10000	
W	182	159	1	He	0.821	0.821	5.00	11701	0.01	2500	
Tl	205	165	1	He	0.015	0.015	19.65	787	0.00	5000	
Pb	208	165	1	He	0.034	0.034	6.99	2332	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2002973	0.97	2317135	86.44	30	120	
Sc	45	1	He	871458	1.70	926381	94.07	30	120	
Sc	45	2	NoGas	8356441	1.21	8695701	96.10	30	120	
Rh	103	1	He	2072445	1.96	2215799	93.53	30	120	
In	115	1	He	1236007	0.53	1382146	89.43	30	120	
Tb	159	1	He	3170100	0.79	3202579	98.99	30	120	
Ho	165	1	He	3231479	0.97	3234085	99.92	30	120	
Bi	209	1	He	2105968	1.32	2214527	95.10	30	120	

Sample Report

Sample Table

Sample Name	240-49195-a-3-a
Data File Name	063SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:13:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.245	0.245	9.25	1756	0.01	10000	
B	11	45	2	NoGas	621.966	621.966	2.19	2384121	0.03	300	>LDR
Na	23	45	1	He	110049.729	110049.729	2.03	194111955	0.06	500000	
Mg	24	45	1	He	77499.533	77499.533	2.08	78097625	0.10	500000	
Al	27	45	1	He	-12.180	-12.180	-2.39	4033	-0.30	200000	
K	39	45	1	He	4852.729	4852.729	3.58	5297028	0.09	500000	
Ca	44	45	1	He	97180.308	97180.308	1.76	5304888	1.83	500000	
Ti	47	45	1	He	0.346	0.346	53.58	122	0.28	2500	
V	51	45	1	He	0.765	0.765	18.55	6411	0.01	10000	
Cr	52	45	1	He	2.244	2.244	3.41	23540	0.01	10000	
Mn	55	45	1	He	41.095	41.095	1.53	282741	0.01	10000	
Fe	56	45	1	He	1.781	1.781	6.40	28927	0.01	200000	
Co	59	45	1	He	0.102	0.102	5.98	1552	0.01	10000	
Ni	60	45	1	He	0.131	0.131	25.30	1007	0.01	10000	
Cu	63	45	1	He	0.021	0.021	59.79	3914	0.00	10000	
Zn	66	45	1	He	1.513	1.513	5.87	4911	0.03	10000	
As	75	115	1	He	0.774	0.774	3.12	1205	0.06	10000	
Se	78	115	1	He	0.261	0.261	36.66	151	0.17	10000	
Sr	88	45	1	He	6828.126	6828.126	1.15	55928072	0.01	10000	
Mo	95	103	1	He	0.071	0.071	6.23	310	0.02	2000	
Ag	107	103	1	He	0.010	0.010	17.57	143	0.01	300	
Cd	111	115	1	He	0.124	0.124	17.02	1487	0.01	4000	
Sn	118	115	1	He	0.797	0.797	19.71	6835	0.01	2000	
Sb	123	115	1	He	0.128	0.128	9.79	729	0.02	300	
Ba	137	115	1	He	205.684	205.684	0.94	469014	0.04	10000	
W	182	159	1	He	0.745	0.745	10.07	10956	0.01	2500	
Tl	205	165	1	He	0.011	0.011	19.32	681	0.00	5000	
Pb	208	165	1	He	0.028	0.028	5.33	2119	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2008542	1.61	2317135	86.68	30	120	
Sc	45	1	He	869639	2.03	926381	93.87	30	120	
Sc	45	2	NoGas	8392173	1.70	8695701	96.51	30	120	
Rh	103	1	He	2085379	0.66	2215799	94.11	30	120	
In	115	1	He	1239381	0.19	1382146	89.67	30	120	
Tb	159	1	He	3187274	0.12	3202579	99.52	30	120	
Ho	165	1	He	3209456	1.27	3234085	99.24	30	120	
Bi	209	1	He	2099402	0.69	2214527	94.80	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	064_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:17:11-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.061	0.380	330745	0.53	50	98.1	89.5	110.5	
B	11	45	2	NoGas	59.902	0.508	274988	0.90	50	119.8	89.5	110.5	CCV Failed
Na	23	45	1	He	25178.886	3.071	48063746	1.20	25000	100.7	89.5	110.5	
Mg	24	45	1	He	25051.083	3.155	27300543	1.53	25000	100.2	89.5	110.5	
Al	27	45	1	He	236.759	3.198	152401	1.33	250	94.7	89.5	110.5	
K	39	45	1	He	25169.582	4.295	29338089	0.65	25000	100.7	89.5	110.5	
Ca	44	45	1	He	25449.919	3.037	1503757	1.98	25000	101.8	89.5	110.5	
Ti	47	45	1	He	50.489	5.974	16759	1.95	50	101.0	89.5	110.5	
V	51	45	1	He	50.630	3.125	423685	1.11	50	101.3	89.5	110.5	
Cr	52	45	1	He	50.310	2.330	481692	1.81	50	100.6	89.5	110.5	
Mn	55	45	1	He	255.148	4.224	1885395	0.69	250	102.1	89.5	110.5	
Fe	56	45	1	He	12549.408	3.437	111314767	0.71	12500	100.4	89.5	110.5	
Co	59	45	1	He	50.602	3.194	665842	0.98	50	101.2	89.5	110.5	
Ni	60	45	1	He	50.819	2.633	166535	1.61	50	101.6	89.5	110.5	
Cu	63	45	1	He	51.508	2.367	443142	1.80	50	103.0	89.5	110.5	
Zn	66	45	1	He	50.533	2.462	91718	1.72	50	101.1	89.5	110.5	
As	75	115	1	He	50.539	0.713	68781	1.57	50	101.1	89.5	110.5	
Se	78	115	1	He	49.684	1.205	5777	1.75	50	99.4	89.5	110.5	
Sr	88	45	1	He	50.912	2.630	451416	1.51	50	101.8	89.5	110.5	
Mo	95	103	1	He	49.774	3.381	193146	1.59	50	99.5	89.5	110.5	
Ag	107	103	1	He	50.900	0.243	629682	1.69	50	101.8	89.5	110.5	
Cd	111	115	1	He	51.770	1.308	109910	2.15	50	103.5	89.5	110.5	
Sn	118	115	1	He	50.863	1.655	269654	2.48	50	101.7	89.5	110.5	
Sb	123	115	1	He	52.651	0.525	290467	0.47	50	105.3	89.5	110.5	
Ba	137	115	1	He	51.042	1.141	125526	1.74	50	102.1	89.5	110.5	
W	182	159	1	He	48.858	1.882	538386	1.26	50	97.7	89.5	110.5	
Tl	205	165	1	He	49.018	0.406	1294399	1.24	50	98.0	89.5	110.5	
Pb	208	165	1	He	49.708	0.121	1766648	1.60	50	99.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2151692	0.60	2317135	92.86	30	120	
Sc	45	1	He	940841	4.15	926381	101.56	30	120	
Sc	45	2	NoGas	8719766	0.61	8695701	100.28	30	120	
Rh	103	1	He	2205385	1.82	2215799	99.53	30	120	
In	115	1	He	1336038	0.87	1382146	96.66	30	120	
Tb	159	1	He	3317179	1.20	3202579	103.58	30	120	
Ho	165	1	He	3315249	1.61	3234085	102.51	30	120	
Bi	209	1	He	2246106	1.67	2214527	101.43	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	065_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:20:58-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.208	19.8	1685	17.5	1	
B	11	45	2	NoGas	3.736	4.7	55963	1.2	20	
Na	23	45	1	He	14.366	14.3	78244	3.0	400	
Mg	24	45	1	He	-0.553	-103.2	5157	9.5	1000	
Al	27	45	1	He	-17.719	-1.1	1003	11.8	50	
K	39	45	1	He	1.499	44.1	82371	1.0	1000	
Ca	44	45	1	He	-23.455	-1.1	626	1.1	1000	
Ti	47	45	1	He	0.056	22.5	33	10.0	20	
V	51	45	1	He	0.049	190.3	898	81.6	2	
Cr	52	45	1	He	0.041	39.6	4274	2.6	2	
Mn	55	45	1	He	-0.217	-5.8	626	13.8	2	
Fe	56	45	1	He	14.827	34.5	137613	29.0	50	
Co	59	45	1	He	0.006	84.5	397	14.9	1	
Ni	60	45	1	He	-0.138	-11.3	199	22.3	2	
Cu	63	45	1	He	0.050	42.5	4211	2.4	2	
Zn	66	45	1	He	-0.889	-1.1	1008	3.0	20	
As	75	115	1	He	0.049	2.0	326	0.5	2	
Se	78	115	1	He	0.043	9.3	142	1.2	2	
Sr	88	45	1	He	0.198	8.9	2133	5.4	10	
Mo	95	103	1	He	0.940	23.6	3829	24.1	2	
Ag	107	103	1	He	0.007	25.5	118	20.5	0.2	
Cd	111	115	1	He	0.049	30.4	1488	1.9	0.2	
Sn	118	115	1	He	0.225	19.5	4497	4.6	10	
Sb	123	115	1	He	0.301	10.5	1789	9.3	1	
Ba	137	115	1	He	0.024	40.0	136	17.4	5	
W	182	159	1	He	1.111	23.1	15167	17.2	10	
Tl	205	165	1	He	0.045	20.4	1597	14.9	0.5	
Pb	208	165	1	He	0.021	19.1	1948	6.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2221508	1.17	2317135	95.87	30	120	
Sc	45	1	He	883298	1.81	926381	95.35	30	120	
Sc	45	2	NoGas	8895137	1.32	8695701	102.29	30	120	
Rh	103	1	He	2280259	0.91	2215799	102.91	30	120	
In	115	1	He	1373670	0.89	1382146	99.39	30	120	
Tb	159	1	He	3268045	1.06	3202579	102.04	30	120	
Ho	165	1	He	3314357	0.84	3234085	102.48	30	120	
Bi	209	1	He	2274643	0.86	2214527	102.71	30	120	

Sample Report

Sample Table

Sample Name	240-49195-a-4-a
Data File Name	066SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:24:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.219	0.219	8.00	1563	0.01	10000	
B	11	45	2	NoGas	607.283	607.283	2.90	2282808	0.03	300	>LDR
Na	23	45	1	He	107669.488	107669.488	2.21	190296518	0.06	500000	
Mg	24	45	1	He	77265.831	77265.831	1.83	78025678	0.10	500000	
Al	27	45	1	He	-10.027	-10.027	-2.86	5227	-0.19	200000	
K	39	45	1	He	5243.633	5243.633	3.98	5727365	0.09	500000	
Ca	44	45	1	He	96768.328	96768.328	2.83	5292300	1.83	500000	
Ti	47	45	1	He	0.458	0.458	4.94	157	0.29	2500	
V	51	45	1	He	0.988	0.988	5.66	8160	0.01	10000	
Cr	52	45	1	He	2.794	2.794	4.05	28420	0.01	10000	
Mn	55	45	1	He	61.243	61.243	2.49	421088	0.01	10000	
Fe	56	45	1	He	5.754	5.754	6.07	61726	0.01	200000	
Co	59	45	1	He	0.109	0.109	5.66	1641	0.01	10000	
Ni	60	45	1	He	0.267	0.267	8.92	1420	0.02	10000	
Cu	63	45	1	He	0.197	0.197	5.11	5318	0.00	10000	
Zn	66	45	1	He	1.608	1.608	2.81	5073	0.03	10000	
As	75	115	1	He	0.679	0.679	3.47	1077	0.06	10000	
Se	78	115	1	He	0.299	0.299	36.85	154	0.19	10000	
Sr	88	45	1	He	6707.698	6707.698	2.72	55041016	0.01	10000	
Mo	95	103	1	He	0.255	0.255	12.75	974	0.03	2000	
Ag	107	103	1	He	0.019	0.019	33.80	237	0.01	300	
Cd	111	115	1	He	0.154	0.154	8.52	1533	0.01	4000	
Sn	118	115	1	He	0.639	0.639	16.61	6012	0.01	2000	
Sb	123	115	1	He	0.211	0.211	3.15	1143	0.02	300	
Ba	137	115	1	He	205.043	205.043	0.25	463498	0.04	10000	
W	182	159	1	He	0.988	0.988	4.97	13313	0.01	2500	
Tl	205	165	1	He	0.015	0.015	25.72	767	0.00	5000	
Pb	208	165	1	He	0.028	0.028	9.96	2060	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1979105	2.76	2317135	85.41	30	120	
Sc	45	1	He	871493	2.64	926381	94.07	30	120	
Sc	45	2	NoGas	8224016	0.39	8695701	94.58	30	120	
Rh	103	1	He	2063976	0.46	2215799	93.15	30	120	
In	115	1	He	1228623	0.38	1382146	88.89	30	120	
Tb	159	1	He	3137664	0.41	3202579	97.97	30	120	
Ho	165	1	He	3152793	0.30	3234085	97.49	30	120	
Bi	209	1	He	2097044	0.79	2214527	94.69	30	120	

Sample Report

Sample Table

Sample Name	240-49210-a-1-a
Data File Name	067SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:28:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.173	0.173	20.18	1293	0.01	10000	
B	11	45	2	NoGas	31.806	31.806	0.42	157538	0.02	300	
Na	23	45	1	He	26763.986	26763.986	1.97	48620405	0.06	500000	
Mg	24	45	1	He	12460.452	12460.452	2.39	12925779	0.10	500000	
Al	27	45	1	He	-13.594	-13.594	-4.67	3353	-0.41	200000	
K	39	45	1	He	1465.065	1465.065	1.76	1702926	0.09	500000	
Ca	44	45	1	He	69508.194	69508.194	1.40	3905390	1.78	500000	
Ti	47	45	1	He	0.138	0.138	60.33	60	0.23	2500	
V	51	45	1	He	0.123	0.123	75.17	1509	0.01	10000	
Cr	52	45	1	He	1.333	1.333	6.38	15993	0.01	10000	
Mn	55	45	1	He	-0.162	-0.162	-3.89	1020	-0.02	10000	
Fe	56	45	1	He	2.856	2.856	2.57	38864	0.01	200000	
Co	59	45	1	He	0.063	0.063	8.53	1122	0.01	10000	
Ni	60	45	1	He	2.232	2.232	2.53	7568	0.03	10000	
Cu	63	45	1	He	1.791	1.791	3.98	18385	0.01	10000	
Zn	66	45	1	He	5.506	5.506	3.08	11748	0.05	10000	
As	75	115	1	He	0.753	0.753	1.58	1228	0.06	10000	
Se	78	115	1	He	0.199	0.199	92.61	150	0.13	10000	
Sr	88	45	1	He	192.667	192.667	0.22	1624814	0.01	10000	
Mo	95	103	1	He	4.424	4.424	2.70	16763	0.03	2000	
Ag	107	103	1	He	0.011	0.011	15.84	152	0.01	300	
Cd	111	115	1	He	0.081	0.081	19.20	1462	0.01	4000	
Sn	118	115	1	He	0.318	0.318	9.28	4693	0.01	2000	
Sb	123	115	1	He	0.097	0.097	13.49	594	0.02	300	
Ba	137	115	1	He	131.245	131.245	1.47	311660	0.04	10000	
W	182	159	1	He	16.776	16.776	2.09	183671	0.01	2500	
Tl	205	165	1	He	0.005	0.005	45.89	541	0.00	5000	
Pb	208	165	1	He	0.127	0.127	4.96	5620	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1998955	0.15	2317135	86.27	30	120	
Sc	45	1	He	894966	2.46	926381	96.61	30	120	
Sc	45	2	NoGas	8331981	0.72	8695701	95.82	30	120	
Rh	103	1	He	2146758	1.17	2215799	96.88	30	120	
In	115	1	He	1290552	0.32	1382146	93.37	30	120	
Tb	159	1	He	3257900	0.17	3202579	101.73	30	120	
Ho	165	1	He	3268912	0.92	3234085	101.08	30	120	
Bi	209	1	He	2196756	0.76	2214527	99.20	30	120	

Sample Report

Sample Table

Sample Name	240-49210-a-3-a
Data File Name	068SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:32:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.192	0.192	26.92	1400	0.01	10000	
B	11	45	2	NoGas	27.958	27.958	3.74	142106	0.02	300	
Na	23	45	1	He	27781.413	27781.413	2.51	49519605	0.06	500000	
Mg	24	45	1	He	12731.839	12731.839	1.88	12962331	0.10	500000	
Al	27	45	1	He	-15.070	-15.070	-3.79	2461	-0.61	200000	
K	39	45	1	He	1517.536	1517.536	4.79	1727000	0.09	500000	
Ca	44	45	1	He	71491.329	71491.329	2.83	3940806	1.81	500000	
Ti	47	45	1	He	0.108	0.108	51.67	49	0.22	2500	
V	51	45	1	He	0.260	0.260	73.23	2511	0.01	10000	
Cr	52	45	1	He	1.394	1.394	7.79	16225	0.01	10000	
Mn	55	45	1	He	-0.173	-0.173	-1.31	922	-0.02	10000	
Fe	56	45	1	He	1.960	1.960	6.95	30692	0.01	200000	
Co	59	45	1	He	0.078	0.078	7.99	1277	0.01	10000	
Ni	60	45	1	He	0.599	0.599	4.27	2446	0.02	10000	
Cu	63	45	1	He	1.463	1.463	4.67	15430	0.01	10000	
Zn	66	45	1	He	2.713	2.713	1.83	6933	0.04	10000	
As	75	115	1	He	0.779	0.779	4.31	1250	0.06	10000	
Se	78	115	1	He	0.340	0.340	23.06	164	0.21	10000	
Sr	88	45	1	He	197.699	197.699	2.65	1635406	0.01	10000	
Mo	95	103	1	He	4.582	4.582	3.74	17353	0.03	2000	
Ag	107	103	1	He	0.004	0.004	19.95	67	0.01	300	
Cd	111	115	1	He	0.068	0.068	49.50	1422	0.00	4000	
Sn	118	115	1	He	0.276	0.276	9.65	4436	0.01	2000	
Sb	123	115	1	He	0.081	0.081	27.69	504	0.02	300	
Ba	137	115	1	He	134.027	134.027	0.97	315089	0.04	10000	
W	182	159	1	He	17.731	17.731	2.38	191834	0.01	2500	
Tl	205	165	1	He	-0.001	-0.001	-426.55	394	0.00	5000	
Pb	208	165	1	He	0.075	0.075	5.31	3761	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1979059	1.18	2317135	85.41	30	120	
Sc	45	1	He	878441	3.72	926381	94.83	30	120	
Sc	45	2	NoGas	8272927	1.21	8695701	95.14	30	120	
Rh	103	1	He	2145913	0.10	2215799	96.85	30	120	
In	115	1	He	1277713	0.41	1382146	92.44	30	120	
Tb	159	1	He	3222752	0.69	3202579	100.63	30	120	
Ho	165	1	He	3224182	0.40	3234085	99.69	30	120	
Bi	209	1	He	2161060	0.88	2214527	97.59	30	120	

Sample Report

Sample Table

Sample Name	240-49211-a-1-a
Data File Name	069SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:36:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.153	0.153	6.42	1148	0.01	10000	
B	11	45	2	NoGas	24.081	24.081	1.30	128529	0.02	300	
Na	23	45	1	He	59723.938	59723.938	2.62	104947348	0.06	500000	
Mg	24	45	1	He	23715.558	23715.558	0.59	23815159	0.10	500000	
Al	27	45	1	He	-15.318	-15.318	-0.88	2299	-0.67	200000	
K	39	45	1	He	1474.721	1474.721	2.30	1658629	0.09	500000	
Ca	44	45	1	He	126971.814	126971.814	1.50	6903562	1.84	500000	
Ti	47	45	1	He	0.200	0.200	36.59	77	0.26	2500	
V	51	45	1	He	0.295	0.295	67.27	2760	0.01	10000	
Cr	52	45	1	He	1.539	1.539	2.41	17290	0.01	10000	
Mn	55	45	1	He	0.259	0.259	7.61	3848	0.01	10000	
Fe	56	45	1	He	5.881	5.881	2.69	62317	0.01	200000	
Co	59	45	1	He	0.584	0.584	6.42	7385	0.01	10000	
Ni	60	45	1	He	0.132	0.132	18.29	1008	0.01	10000	
Cu	63	45	1	He	0.009	0.009	424.84	3804	0.00	10000	
Zn	66	45	1	He	2.259	2.259	7.21	6099	0.04	10000	
As	75	115	1	He	0.834	0.834	0.52	1294	0.06	10000	
Se	78	115	1	He	0.382	0.382	23.67	165	0.23	10000	
Sr	88	45	1	He	627.115	627.115	2.14	5116838	0.01	10000	
Mo	95	103	1	He	4.515	4.515	2.07	16703	0.03	2000	
Ag	107	103	1	He	0.003	0.003	13.79	56	0.01	300	
Cd	111	115	1	He	0.077	0.077	20.52	1411	0.01	4000	
Sn	118	115	1	He	0.225	0.225	48.89	4097	0.01	2000	
Sb	123	115	1	He	0.088	0.088	19.08	527	0.02	300	
Ba	137	115	1	He	289.134	289.134	1.08	665819	0.04	10000	
W	182	159	1	He	6.062	6.062	1.58	66482	0.01	2500	
Tl	205	165	1	He	-0.002	-0.002	-31.37	343	0.00	5000	
Pb	208	165	1	He	0.016	0.016	15.55	1707	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1969121	1.28	2317135	84.98	30	120	
Sc	45	1	He	866194	1.96	926381	93.50	30	120	
Sc	45	2	NoGas	8326742	0.55	8695701	95.76	30	120	
Rh	103	1	He	2096307	1.29	2215799	94.61	30	120	
In	115	1	He	1251638	0.33	1382146	90.56	30	120	
Tb	159	1	He	3166673	0.99	3202579	98.88	30	120	
Ho	165	1	He	3211138	1.00	3234085	99.29	30	120	
Bi	209	1	He	2134264	2.16	2214527	96.38	30	120	

Sample Report

Sample Table

Sample Name	240-49211-a-2-a
Data File Name	070SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:40:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.133	0.133	7.46	1030	0.01	10000	
B	11	45	2	NoGas	20.855	20.855	2.94	114814	0.02	300	
Na	23	45	1	He	22588.913	22588.913	3.04	39671929	0.06	500000	
Mg	24	45	1	He	16055.533	16055.533	1.74	16101909	0.10	500000	
Al	27	45	1	He	-14.599	-14.599	-2.50	2687	-0.54	200000	
K	39	45	1	He	919.329	919.329	2.75	1062357	0.09	500000	
Ca	44	45	1	He	75144.179	75144.179	2.79	4080562	1.84	500000	
Ti	47	45	1	He	0.179	0.179	39.67	70	0.26	2500	
V	51	45	1	He	0.213	0.213	37.13	2126	0.01	10000	
Cr	52	45	1	He	1.596	1.596	4.36	17764	0.01	10000	
Mn	55	45	1	He	-0.103	-0.103	-26.93	1391	-0.01	10000	
Fe	56	45	1	He	1.583	1.583	1.90	27170	0.01	200000	
Co	59	45	1	He	0.146	0.146	12.49	2081	0.01	10000	
Ni	60	45	1	He	0.029	0.029	72.43	698	0.00	10000	
Cu	63	45	1	He	0.568	0.568	6.15	8184	0.01	10000	
Zn	66	45	1	He	3.087	3.087	1.91	7438	0.04	10000	
As	75	115	1	He	0.741	0.741	1.47	1182	0.06	10000	
Se	78	115	1	He	0.404	0.404	17.31	168	0.24	10000	
Sr	88	45	1	He	109.110	109.110	1.42	889555	0.01	10000	
Mo	95	103	1	He	0.186	0.186	12.66	749	0.02	2000	
Ag	107	103	1	He	0.001	0.001	65.08	33	0.00	300	
Cd	111	115	1	He	0.047	0.047	37.14	1358	0.00	4000	
Sn	118	115	1	He	0.299	0.299	12.34	4482	0.01	2000	
Sb	123	115	1	He	0.074	0.074	3.35	457	0.02	300	
Ba	137	115	1	He	72.069	72.069	0.80	166825	0.04	10000	
W	182	159	1	He	0.236	0.236	6.63	5642	0.00	2500	
Tl	205	165	1	He	-0.002	-0.002	-159.94	366	0.00	5000	
Pb	208	165	1	He	0.025	0.025	7.61	2012	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1969650	1.95	2317135	85.00	30	120	
Sc	45	1	He	865220	2.57	926381	93.40	30	120	
Sc	45	2	NoGas	8211267	2.14	8695701	94.43	30	120	
Rh	103	1	He	2137328	1.20	2215799	96.46	30	120	
In	115	1	He	1257850	0.70	1382146	91.01	30	120	
Tb	159	1	He	3208517	0.77	3202579	100.19	30	120	
Ho	165	1	He	3227221	0.70	3234085	99.79	30	120	
Bi	209	1	He	2188502	1.32	2214527	98.82	30	120	

Sample Report

Sample Table

Sample Name	240-49211-a-3-a
Data File Name	071SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:43:55-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.124	0.124	2.48	967	0.01	10000	
B	11	45	2	NoGas	28.899	28.899	1.05	144976	0.02	300	
Na	23	45	1	He	17861.606	17861.606	1.15	31418927	0.06	500000	
Mg	24	45	1	He	8481.447	8481.447	1.10	8516992	0.10	500000	
Al	27	45	1	He	-15.325	-15.325	-0.94	2294	-0.67	200000	
K	39	45	1	He	1765.889	1765.889	3.09	1969426	0.09	500000	
Ca	44	45	1	He	51618.875	51618.875	1.89	2806635	1.84	500000	
Ti	47	45	1	He	0.071	0.071	113.02	38	0.19	2500	
V	51	45	1	He	0.227	0.227	76.06	2260	0.01	10000	
Cr	52	45	1	He	1.310	1.310	5.63	15275	0.01	10000	
Mn	55	45	1	He	-0.034	-0.034	-21.81	1856	0.00	10000	
Fe	56	45	1	He	9.776	9.776	2.18	94117	0.01	200000	
Co	59	45	1	He	39.939	39.939	1.87	484067	0.01	10000	
Ni	60	45	1	He	0.251	0.251	7.90	1365	0.02	10000	
Cu	63	45	1	He	0.183	0.183	4.61	5173	0.00	10000	
Zn	66	45	1	He	2.331	2.331	3.47	6214	0.04	10000	
As	75	115	1	He	0.727	0.727	4.13	1177	0.06	10000	
Se	78	115	1	He	0.283	0.283	47.45	157	0.18	10000	
Sr	88	45	1	He	109.394	109.394	2.17	892565	0.01	10000	
Mo	95	103	1	He	5.510	5.510	0.68	20984	0.03	2000	
Ag	107	103	1	He	0.002	0.002	164.40	46	0.00	300	
Cd	111	115	1	He	0.065	0.065	38.56	1411	0.00	4000	
Sn	118	115	1	He	0.210	0.210	13.06	4090	0.01	2000	
Sb	123	115	1	He	0.158	0.158	10.13	906	0.02	300	
Ba	137	115	1	He	76.010	76.010	1.81	178064	0.04	10000	
W	182	159	1	He	17.468	17.468	1.63	188295	0.01	2500	
Tl	205	165	1	He	-0.004	-0.004	-18.28	303	0.00	5000	
Pb	208	165	1	He	0.017	0.017	12.04	1732	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1963926	1.31	2317135	84.76	30	120	
Sc	45	1	He	866018	2.74	926381	93.48	30	120	
Sc	45	2	NoGas	8236924	1.14	8695701	94.72	30	120	
Rh	103	1	He	2158617	1.11	2215799	97.42	30	120	
In	115	1	He	1272947	0.08	1382146	92.10	30	120	
Tb	159	1	He	3210128	1.09	3202579	100.24	30	120	
Ho	165	1	He	3218723	1.18	3234085	99.52	30	120	
Bi	209	1	He	2198226	0.49	2214527	99.26	30	120	

Sample Report

Sample Table

Sample Name	240-49211-a-4-a
Data File Name	072SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:47:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.106	0.106	15.13	867	0.01	10000	
B	11	45	2	NoGas	28.317	28.317	2.89	143039	0.02	300	
Na	23	45	1	He	17625.830	17625.830	3.29	30930329	0.06	500000	
Mg	24	45	1	He	8313.681	8313.681	1.59	8329662	0.10	500000	
Al	27	45	1	He	-14.826	-14.826	-0.17	2562	-0.58	200000	
K	39	45	1	He	1706.486	1706.486	2.27	1901991	0.09	500000	
Ca	44	45	1	He	49911.398	49911.398	0.46	2708633	1.84	500000	
Ti	47	45	1	He	0.124	0.124	21.52	53	0.23	2500	
V	51	45	1	He	0.287	0.287	73.70	2706	0.01	10000	
Cr	52	45	1	He	1.296	1.296	1.91	15132	0.01	10000	
Mn	55	45	1	He	0.319	0.319	3.89	4249	0.01	10000	
Fe	56	45	1	He	2.883	2.883	1.36	37738	0.01	200000	
Co	59	45	1	He	40.326	40.326	0.55	487763	0.01	10000	
Ni	60	45	1	He	0.276	0.276	18.32	1436	0.02	10000	
Cu	63	45	1	He	0.311	0.311	7.22	6161	0.01	10000	
Zn	66	45	1	He	1.525	1.525	2.30	4896	0.03	10000	
As	75	115	1	He	0.673	0.673	3.62	1101	0.06	10000	
Se	78	115	1	He	0.111	0.111	87.46	138	0.08	10000	
Sr	88	45	1	He	105.619	105.619	1.19	860030	0.01	10000	
Mo	95	103	1	He	5.442	5.442	1.88	20388	0.03	2000	
Ag	107	103	1	He	0.002	0.002	17.12	43	0.00	300	
Cd	111	115	1	He	0.043	0.043	25.71	1359	0.00	4000	
Sn	118	115	1	He	0.198	0.198	21.80	4008	0.00	2000	
Sb	123	115	1	He	0.164	0.164	6.63	930	0.02	300	
Ba	137	115	1	He	74.365	74.365	0.87	173103	0.04	10000	
W	182	159	1	He	17.019	17.019	0.97	182583	0.01	2500	
Tl	205	165	1	He	-0.004	-0.004	-22.29	301	0.00	5000	
Pb	208	165	1	He	0.025	0.025	6.67	2016	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1978492	1.35	2317135	85.39	30	120	
Sc	45	1	He	864025	1.78	926381	93.27	30	120	
Sc	45	2	NoGas	8250773	1.52	8695701	94.88	30	120	
Rh	103	1	He	2123789	1.35	2215799	95.85	30	120	
In	115	1	He	1264901	0.76	1382146	91.52	30	120	
Tb	159	1	He	3193277	0.63	3202579	99.71	30	120	
Ho	165	1	He	3238738	1.27	3234085	100.14	30	120	
Bi	209	1	He	2186123	2.00	2214527	98.72	30	120	

Sample Report

Sample Table

Sample Name	240-49212-a-1-a
Data File Name	073SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:51:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.108	0.108	16.39	867	0.01	10000	
B	11	45	2	NoGas	22.156	22.156	3.66	118809	0.02	300	
Na	23	45	1	He	21915.585	21915.585	0.77	38352786	0.06	500000	
Mg	24	45	1	He	10989.264	10989.264	1.34	10979545	0.10	500000	
Al	27	45	1	He	-15.958	-15.958	-1.14	1938	-0.82	200000	
K	39	45	1	He	978.215	978.215	1.23	1121107	0.09	500000	
Ca	44	45	1	He	59168.758	59168.758	2.19	3201133	1.85	500000	
Ti	47	45	1	He	0.080	0.080	59.94	40	0.20	2500	
V	51	45	1	He	0.362	0.362	28.59	3282	0.01	10000	
Cr	52	45	1	He	1.437	1.437	1.50	16318	0.01	10000	
Mn	55	45	1	He	0.460	0.460	2.96	5193	0.01	10000	
Fe	56	45	1	He	8.028	8.028	0.12	79466	0.01	200000	
Co	59	45	1	He	0.096	0.096	15.17	1473	0.01	10000	
Ni	60	45	1	He	0.018	0.018	144.62	662	0.00	10000	
Cu	63	45	1	He	0.465	0.465	1.90	7352	0.01	10000	
Zn	66	45	1	He	8.944	8.944	2.37	16866	0.05	10000	
As	75	115	1	He	0.727	0.727	3.02	1165	0.06	10000	
Se	78	115	1	He	0.256	0.256	66.14	153	0.17	10000	
Sr	88	45	1	He	106.316	106.316	0.85	863386	0.01	10000	
Mo	95	103	1	He	3.473	3.473	2.90	13039	0.03	2000	
Ag	107	103	1	He	0.000	0.000	-622.42	20	0.00	300	
Cd	111	115	1	He	0.058	0.058	43.08	1382	0.00	4000	
Sn	118	115	1	He	0.156	0.156	13.59	3778	0.00	2000	
Sb	123	115	1	He	0.125	0.125	10.62	723	0.02	300	
Ba	137	115	1	He	92.669	92.669	0.96	214660	0.04	10000	
W	182	159	1	He	49.651	49.651	0.95	526590	0.01	2500	
Tl	205	165	1	He	-0.006	-0.006	-18.66	252	0.00	5000	
Pb	208	165	1	He	0.250	0.250	6.00	9779	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1946162	1.03	2317135	83.99	30	120	
Sc	45	1	He	861700	1.69	926381	93.02	30	120	
Sc	45	2	NoGas	8156202	1.78	8695701	93.80	30	120	
Rh	103	1	He	2125289	1.01	2215799	95.92	30	120	
In	115	1	He	1258791	0.26	1382146	91.08	30	120	
Tb	159	1	He	3192879	1.53	3202579	99.70	30	120	
Ho	165	1	He	3216464	1.07	3234085	99.46	30	120	
Bi	209	1	He	2186260	0.44	2214527	98.72	30	120	

Sample Report

Sample Table

Sample Name	240-49212-a-2-a
Data File Name	074SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:55:31-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.094	0.094	7.49	774	0.01	10000	
B	11	45	2	NoGas	17.407	17.407	0.59	100563	0.02	300	
Na	23	45	1	He	20222.777	20222.777	4.88	36744392	0.06	500000	
Mg	24	45	1	He	7037.726	7037.726	5.59	7300557	0.10	500000	
Al	27	45	1	He	-5.445	-5.445	-6.81	7971	-0.07	200000	
K	39	45	1	He	1422.373	1422.373	5.62	1655139	0.09	500000	
Ca	44	45	1	He	42563.131	42563.131	5.66	2390937	1.78	500000	
Ti	47	45	1	He	0.139	0.139	12.18	60	0.23	2500	
V	51	45	1	He	0.357	0.357	24.36	3381	0.01	10000	
Cr	52	45	1	He	2.111	2.111	7.28	23018	0.01	10000	
Mn	55	45	1	He	8.447	8.447	5.31	61497	0.01	10000	
Fe	56	45	1	He	889.797	889.797	5.53	7523169	0.01	200000	
Co	59	45	1	He	0.196	0.196	2.70	2786	0.01	10000	
Ni	60	45	1	He	1.020	1.020	2.61	3800	0.03	10000	
Cu	63	45	1	He	62.188	62.188	5.94	508049	0.01	10000	
Zn	66	45	1	He	119.947	119.947	5.93	203624	0.06	10000	
As	75	115	1	He	1.555	1.555	11.44	2344	0.07	10000	
Se	78	115	1	He	0.072	0.072	263.12	140	0.05	10000	
Sr	88	45	1	He	83.533	83.533	5.40	704261	0.01	10000	
Mo	95	103	1	He	8.499	8.499	1.55	32627	0.03	2000	
Ag	107	103	1	He	0.013	0.013	6.61	180	0.01	300	
Cd	111	115	1	He	0.145	0.145	28.39	1642	0.01	4000	
Sn	118	115	1	He	9.133	9.133	8.52	50770	0.02	2000	
Sb	123	115	1	He	1.965	1.965	11.08	10845	0.02	300	
Ba	137	115	1	He	71.181	71.181	8.75	174041	0.04	10000	
W	182	159	1	He	33.411	33.411	4.22	362102	0.01	2500	
Tl	205	165	1	He	-0.005	-0.005	-31.81	277	0.00	5000	
Pb	208	165	1	He	9.811	9.811	5.32	347403	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1944293	1.08	2317135	83.91	30	120	
Sc	45	1	He	895908	4.83	926381	96.71	30	120	
Sc	45	2	NoGas	8086270	0.63	8695701	92.99	30	120	
Rh	103	1	He	2178618	1.97	2215799	98.32	30	120	
In	115	1	He	1334385	7.47	1382146	96.54	30	120	
Tb	159	1	He	3256348	3.64	3202579	101.68	30	120	
Ho	165	1	He	3299759	4.92	3234085	102.03	30	120	
Bi	209	1	He	2233834	4.31	2214527	100.87	30	120	

Sample Report

Sample Table

Sample Name	240-49212-a-3-a
Data File Name	075SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T13:59:19-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.103	0.103	26.26	845	0.01	10000	
B	11	45	2	NoGas	17.274	17.274	2.87	101821	0.02	300	
Na	23	45	1	He	17701.100	17701.100	1.60	31148629	0.06	500000	
Mg	24	45	1	He	6798.125	6798.125	1.75	6829823	0.10	500000	
Al	27	45	1	He	-15.971	-15.971	-1.73	1941	-0.82	200000	
K	39	45	1	He	1416.218	1416.218	2.02	1596093	0.09	500000	
Ca	44	45	1	He	42091.361	42091.361	1.69	2290103	1.84	500000	
Ti	47	45	1	He	0.099	0.099	93.12	46	0.22	2500	
V	51	45	1	He	0.310	0.310	40.54	2872	0.01	10000	
Cr	52	45	1	He	1.376	1.376	2.98	15866	0.01	10000	
Mn	55	45	1	He	0.105	0.105	15.61	2804	0.00	10000	
Fe	56	45	1	He	16.171	16.171	1.96	146416	0.01	200000	
Co	59	45	1	He	0.083	0.083	3.64	1326	0.01	10000	
Ni	60	45	1	He	0.087	0.087	20.69	872	0.01	10000	
Cu	63	45	1	He	10.993	10.993	2.10	90050	0.01	10000	
Zn	66	45	1	He	18.401	18.401	3.18	32305	0.06	10000	
As	75	115	1	He	0.684	0.684	4.02	1119	0.06	10000	
Se	78	115	1	He	0.178	0.178	35.30	146	0.12	10000	
Sr	88	45	1	He	81.970	81.970	2.79	669121	0.01	10000	
Mo	95	103	1	He	8.599	8.599	1.19	32507	0.03	2000	
Ag	107	103	1	He	0.003	0.003	59.98	54	0.00	300	
Cd	111	115	1	He	0.048	0.048	52.20	1373	0.00	4000	
Sn	118	115	1	He	0.221	0.221	7.10	4138	0.01	2000	
Sb	123	115	1	He	0.258	0.258	5.29	1427	0.02	300	
Ba	137	115	1	He	55.040	55.040	1.81	128696	0.04	10000	
W	182	159	1	He	2.351	2.351	4.94	27844	0.01	2500	
Tl	205	165	1	He	-0.006	-0.006	-30.92	250	0.00	5000	
Pb	208	165	1	He	2.093	2.093	2.19	73950	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1984163	2.78	2317135	85.63	30	120	
Sc	45	1	He	866392	2.85	926381	93.52	30	120	
Sc	45	2	NoGas	8227336	0.80	8695701	94.61	30	120	
Rh	103	1	He	2145023	0.63	2215799	96.81	30	120	
In	115	1	He	1270419	0.37	1382146	91.92	30	120	
Tb	159	1	He	3184912	0.50	3202579	99.45	30	120	
Ho	165	1	He	3247161	1.31	3234085	100.40	30	120	
Bi	209	1	He	2197153	0.53	2214527	99.22	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	076_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:03:08-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.585	0.558	317556	1.42	50	97.2	89.5	110.5	
B	11	45	2	NoGas	51.546	3.322	233393	1.30	50	103.1	89.5	110.5	
Na	23	45	1	He	25260.298	3.590	46514150	0.95	25000	101.0	89.5	110.5	
Mg	24	45	1	He	25028.154	3.625	26311089	1.19	25000	100.1	89.5	110.5	
Al	27	45	1	He	236.984	3.412	147162	1.77	250	94.8	89.5	110.5	
K	39	45	1	He	25227.810	3.039	28380075	1.31	25000	100.9	89.5	110.5	
Ca	44	45	1	He	25420.260	3.483	1448792	0.82	25000	101.7	89.5	110.5	
Ti	47	45	1	He	50.861	1.087	16311	3.36	50	101.7	89.5	110.5	
V	51	45	1	He	50.278	3.083	405940	1.42	50	100.6	89.5	110.5	
Cr	52	45	1	He	50.611	2.841	467438	1.67	50	101.2	89.5	110.5	
Mn	55	45	1	He	257.570	1.764	1837785	3.35	250	103.0	89.5	110.5	
Fe	56	45	1	He	12721.350	3.821	108856718	0.97	12500	101.8	89.5	110.5	
Co	59	45	1	He	51.029	2.623	647936	1.80	50	102.1	89.5	110.5	
Ni	60	45	1	He	50.804	3.103	160601	1.22	50	101.6	89.5	110.5	
Cu	63	45	1	He	51.359	2.982	426248	1.60	50	102.7	89.5	110.5	
Zn	66	45	1	He	50.754	3.435	88842	1.11	50	101.5	89.5	110.5	
As	75	115	1	He	50.548	0.885	67042	1.25	50	101.1	89.5	110.5	
Se	78	115	1	He	49.414	1.232	5600	0.89	50	98.8	89.5	110.5	
Sr	88	45	1	He	50.837	3.735	434742	0.61	50	101.7	89.5	110.5	
Mo	95	103	1	He	49.533	3.134	187630	2.33	50	99.1	89.5	110.5	
Ag	107	103	1	He	50.859	1.749	614005	1.44	50	101.7	89.5	110.5	
Cd	111	115	1	He	51.684	1.247	106935	1.72	50	103.4	89.5	110.5	
Sn	118	115	1	He	49.825	0.399	257476	0.95	50	99.6	89.5	110.5	
Sb	123	115	1	He	52.856	0.411	284188	0.78	50	105.7	89.5	110.5	
Ba	137	115	1	He	51.097	1.699	122459	1.60	50	102.2	89.5	110.5	
W	182	159	1	He	49.189	1.711	526567	1.07	50	98.4	89.5	110.5	
Tl	205	165	1	He	48.861	1.456	1267062	1.41	50	97.7	89.5	110.5	
Pb	208	165	1	He	49.646	1.388	1732668	1.51	50	99.3	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2086186	1.78	2317135	90.03	30	120	
Sc	45	1	He	907740	4.30	926381	97.99	30	120	
Sc	45	2	NoGas	8403780	1.50	8695701	96.64	30	120	
Rh	103	1	He	2152381	1.37	2215799	97.14	30	120	
In	115	1	He	1302072	0.82	1382146	94.21	30	120	
Tb	159	1	He	3222503	0.66	3202579	100.62	30	120	
Ho	165	1	He	3255718	1.35	3234085	100.67	30	120	
Bi	209	1	He	2207239	2.02	2214527	99.67	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	077_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:06:58-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.111	13.9	959	10.4	1	
B	11	45	2	NoGas	0.292	98.7	40397	2.4	20	
Na	23	45	1	He	7.046	27.8	63677	5.0	400	
Mg	24	45	1	He	-2.740	-19.6	2856	18.4	1000	
Al	27	45	1	He	-17.838	-1.0	915	9.8	50	
K	39	45	1	He	1.431	138.7	80425	2.4	1000	
Ca	44	45	1	He	-24.223	-6.2	570	14.1	1000	
Ti	47	45	1	He	0.069	31.9	37	18.2	20	
V	51	45	1	He	0.081	28.0	1120	15.4	2	
Cr	52	45	1	He	0.039	2.6	4158	0.2	2	
Mn	55	45	1	He	-0.222	-4.3	579	11.0	2	
Fe	56	45	1	He	12.156	34.5	113134	29.8	50	
Co	59	45	1	He	-0.006	-18.0	238	5.7	1	
Ni	60	45	1	He	-0.147	-6.5	169	17.2	2	
Cu	63	45	1	He	-0.001	-429.4	3717	0.5	2	
Zn	66	45	1	He	-0.857	-1.4	1038	1.6	20	
As	75	115	1	He	0.016	115.3	274	9.6	2	
Se	78	115	1	He	0.019	834.0	136	14.0	2	
Sr	88	45	1	He	0.005	174.7	517	12.6	10	
Mo	95	103	1	He	0.823	27.7	3248	29.0	2	
Ag	107	103	1	He	0.006	63.4	98	47.9	0.2	
Cd	111	115	1	He	0.051	6.8	1457	0.5	0.2	
Sn	118	115	1	He	0.163	36.6	4071	8.0	10	
Sb	123	115	1	He	0.285	14.2	1659	13.9	1	
Ba	137	115	1	He	0.017	23.9	114	8.9	5	
W	182	159	1	He	1.074	16.1	14704	13.6	10	
Tl	205	165	1	He	0.030	15.0	1187	10.3	0.5	
Pb	208	165	1	He	0.014	8.8	1653	3.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2113340	0.31	2317135	91.20	30	120	
Sc	45	1	He	863158	0.41	926381	93.18	30	120	
Sc	45	2	NoGas	8516602	0.37	8695701	97.94	30	120	
Rh	103	1	He	2200953	1.83	2215799	99.33	30	120	
In	115	1	He	1342905	0.43	1382146	97.16	30	120	
Tb	159	1	He	3247380	1.19	3202579	101.40	30	120	
Ho	165	1	He	3262245	0.56	3234085	100.87	30	120	
Bi	209	1	He	2233667	0.60	2214527	100.86	30	120	

Sample Report

Sample Table

Sample Name	240-49212-a-4-a
Data File Name	078SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:10:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.104	0.104	8.07	848	0.01	10000	
B	11	45	2	NoGas	20.776	20.776	0.54	114528	0.02	300	
Na	23	45	1	He	20025.244	20025.244	3.19	35068979	0.06	500000	
Mg	24	45	1	He	8386.910	8386.910	2.66	8387408	0.10	500000	
Al	27	45	1	He	-14.536	-14.536	-2.03	2714	-0.54	200000	
K	39	45	1	He	1556.480	1556.480	2.63	1738756	0.09	500000	
Ca	44	45	1	He	50407.286	50407.286	2.75	2729885	1.85	500000	
Ti	47	45	1	He	0.168	0.168	3.68	67	0.25	2500	
V	51	45	1	He	0.420	0.420	20.41	3709	0.01	10000	
Cr	52	45	1	He	1.229	1.229	3.85	14519	0.01	10000	
Mn	55	45	1	He	0.595	0.595	8.71	6104	0.01	10000	
Fe	56	45	1	He	8.468	8.468	3.65	83204	0.01	200000	
Co	59	45	1	He	0.073	0.073	2.67	1192	0.01	10000	
Ni	60	45	1	He	0.308	0.308	13.11	1529	0.02	10000	
Cu	63	45	1	He	4.136	4.136	3.16	36048	0.01	10000	
Zn	66	45	1	He	16.167	16.167	2.90	28558	0.06	10000	
As	75	115	1	He	0.816	0.816	0.41	1288	0.06	10000	
Se	78	115	1	He	0.143	0.143	61.52	142	0.10	10000	
Sr	88	45	1	He	99.845	99.845	3.25	811369	0.01	10000	
Mo	95	103	1	He	8.146	8.146	3.42	30343	0.03	2000	
Ag	107	103	1	He	0.019	0.019	3.89	249	0.01	300	
Cd	111	115	1	He	0.098	0.098	22.15	1471	0.01	4000	
Sn	118	115	1	He	0.678	0.678	15.66	6405	0.01	2000	
Sb	123	115	1	He	0.638	0.638	0.86	3414	0.02	300	
Ba	137	115	1	He	92.467	92.467	1.65	215795	0.04	10000	
W	182	159	1	He	26.382	26.382	1.50	282794	0.01	2500	
Tl	205	165	1	He	0.009	0.009	38.77	637	0.00	5000	
Pb	208	165	1	He	0.578	0.578	1.60	20889	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1964111	1.09	2317135	84.76	30	120	
Sc	45	1	He	862794	3.47	926381	93.14	30	120	
Sc	45	2	NoGas	8209751	0.36	8695701	94.41	30	120	
Rh	103	1	He	2113438	0.47	2215799	95.38	30	120	
In	115	1	He	1268296	0.63	1382146	91.76	30	120	
Tb	159	1	He	3209757	0.55	3202579	100.22	30	120	
Ho	165	1	He	3191375	0.17	3234085	98.68	30	120	
Bi	209	1	He	2184919	0.81	2214527	98.66	30	120	

Sample Report

Sample Table

Sample Name	240-49220-f-1-a
Data File Name	079SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:14:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.080	0.080	11.20	689	0.01	10000	
B	11	45	2	NoGas	90.509	90.509	1.37	368044	0.02	300	
Na	23	45	1	He	25771.326	25771.326	2.09	44647556	0.06	500000	
Mg	24	45	1	He	6530.784	6530.784	1.55	6464224	0.10	500000	
Al	27	45	1	He	-6.125	-6.125	-5.91	7226	-0.08	200000	
K	39	45	1	He	3861.522	3861.522	2.12	4152512	0.09	500000	
Ca	44	45	1	He	67429.903	67429.903	2.25	3612494	1.87	500000	
Ti	47	45	1	He	0.547	0.547	8.07	180	0.30	2500	
V	51	45	1	He	1.015	1.015	12.37	8200	0.01	10000	
Cr	52	45	1	He	1.654	1.654	4.90	18022	0.01	10000	
Mn	55	45	1	He	373.133	373.133	2.04	2502420	0.01	10000	
Fe	56	45	1	He	582.220	582.220	2.27	4701334	0.01	200000	
Co	59	45	1	He	0.262	0.262	1.92	3445	0.01	10000	
Ni	60	45	1	He	2.850	2.850	2.90	9041	0.03	10000	
Cu	63	45	1	He	4.685	4.685	2.83	39913	0.01	10000	
Zn	66	45	1	He	17.449	17.449	3.02	30314	0.06	10000	
As	75	115	1	He	10.736	10.736	1.04	14060	0.08	10000	
Se	78	115	1	He	0.260	0.260	12.32	154	0.17	10000	
Sr	88	45	1	He	250.901	250.901	0.80	2017514	0.01	10000	
Mo	95	103	1	He	1.881	1.881	3.50	6943	0.03	2000	
Ag	107	103	1	He	0.007	0.007	33.69	100	0.01	300	
Cd	111	115	1	He	0.102	0.102	16.73	1479	0.01	4000	
Sn	118	115	1	He	0.253	0.253	19.24	4290	0.01	2000	
Sb	123	115	1	He	1.796	1.796	2.69	9483	0.02	300	
Ba	137	115	1	He	25.369	25.369	0.44	59271	0.04	10000	
W	182	159	1	He	0.598	0.598	7.42	9370	0.01	2500	
Tl	205	165	1	He	0.007	0.007	11.74	592	0.00	5000	
Pb	208	165	1	He	0.100	0.100	2.08	4564	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1934929	1.43	2317135	83.51	30	120	
Sc	45	1	He	853538	3.04	926381	92.14	30	120	
Sc	45	2	NoGas	8126945	1.86	8695701	93.46	30	120	
Rh	103	1	He	2083175	1.32	2215799	94.01	30	120	
In	115	1	He	1268559	0.30	1382146	91.78	30	120	
Tb	159	1	He	3172426	1.22	3202579	99.06	30	120	
Ho	165	1	He	3200546	0.50	3234085	98.96	30	120	
Bi	209	1	He	2200732	0.26	2214527	99.38	30	120	

Sample Report

Sample Table

Sample Name	240-49239-k-1-a
Data File Name	080SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:18:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.093	0.093	12.37	756	0.01	10000	
B	11	45	2	NoGas	221.828	221.828	1.39	840402	0.03	300	
Na	23	45	1	He	222682.221	222682.221	2.34	386595436	0.06	500000	
Mg	24	45	1	He	32581.894	32581.894	2.88	32320654	0.10	500000	
Al	27	45	1	He	33.223	33.223	5.96	28542	0.12	200000	
K	39	45	1	He	2690.319	2690.319	2.29	2925805	0.09	500000	
Ca	44	45	1	He	139852.805	139852.805	3.21	7513179	1.86	500000	
Ti	47	45	1	He	1.335	1.335	8.39	419	0.32	2500	
V	51	45	1	He	1.209	1.209	7.48	9710	0.01	10000	
Cr	52	45	1	He	1.627	1.627	4.70	17851	0.01	10000	
Mn	55	45	1	He	169.351	169.351	2.72	1140237	0.01	10000	
Fe	56	45	1	He	3848.774	3848.774	2.36	31093209	0.01	200000	
Co	59	45	1	He	0.243	0.243	1.29	3223	0.01	10000	
Ni	60	45	1	He	0.864	0.864	3.72	3171	0.03	10000	
Cu	63	45	1	He	0.370	0.370	10.39	6564	0.01	10000	
Zn	66	45	1	He	7.404	7.404	2.29	14288	0.05	10000	
As	75	115	1	He	2.342	2.342	2.24	3129	0.07	10000	
Se	78	115	1	He	0.334	0.334	26.35	156	0.21	10000	
Sr	88	45	1	He	1989.598	1989.598	1.81	16042044	0.01	10000	
Mo	95	103	1	He	12.820	12.820	1.62	45454	0.03	2000	
Ag	107	103	1	He	0.006	0.006	24.24	87	0.01	300	
Cd	111	115	1	He	0.086	0.086	42.32	1393	0.01	4000	
Sn	118	115	1	He	0.278	0.278	3.91	4247	0.01	2000	
Sb	123	115	1	He	0.182	0.182	7.32	991	0.02	300	
Ba	137	115	1	He	62.888	62.888	0.14	141269	0.04	10000	
W	182	159	1	He	0.172	0.172	37.49	4801	0.00	2500	
Tl	205	165	1	He	-0.005	-0.005	-5.73	261	0.00	5000	
Pb	208	165	1	He	0.041	0.041	9.93	2500	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1910804	0.18	2317135	82.46	30	120	
Sc	45	1	He	856215	2.94	926381	92.43	30	120	
Sc	45	2	NoGas	8055979	0.69	8695701	92.64	30	120	
Rh	103	1	He	2013027	1.71	2215799	90.85	30	120	
In	115	1	He	1220531	0.52	1382146	88.31	30	120	
Tb	159	1	He	3108872	1.57	3202579	97.07	30	120	
Ho	165	1	He	3131956	0.58	3234085	96.84	30	120	
Bi	209	1	He	2030199	1.07	2214527	91.68	30	120	

Sample Report

Sample Table

Sample Name	240-49259-a-1-a
Data File Name	081SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:22:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.066	0.066	29.82	615	0.01	10000	
B	11	45	2	NoGas	86.968	86.968	0.92	363652	0.02	300	
Na	23	45	1	He	15088.738	15088.738	1.73	26616590	0.06	500000	
Mg	24	45	1	He	171933.124	171933.124	1.08	172990089	0.10	500000	
Al	27	45	1	He	-0.412	-0.412	-796.34	10478	0.00	200000	
K	39	45	1	He	5590.814	5590.814	1.94	6080900	0.09	500000	
Ca	44	45	1	He	196553.170	196553.170	2.15	10709881	1.84	500000	
Ti	47	45	1	He	0.304	0.304	11.07	109	0.28	2500	
V	51	45	1	He	1.510	1.510	12.27	12172	0.01	10000	
Cr	52	45	1	He	2.821	2.821	2.67	28562	0.01	10000	
Mn	55	45	1	He	2.814	2.814	1.45	21276	0.01	10000	
Fe	56	45	1	He	10.765	10.765	2.37	102515	0.01	200000	
Co	59	45	1	He	0.260	0.260	4.28	3476	0.01	10000	
Ni	60	45	1	He	6.843	6.843	1.07	21236	0.03	10000	
Cu	63	45	1	He	0.756	0.756	10.43	9702	0.01	10000	
Zn	66	45	1	He	2.359	2.359	10.63	6276	0.04	10000	
As	75	115	1	He	1.705	1.705	4.94	2409	0.07	10000	
Se	78	115	1	He	0.936	0.936	24.50	225	0.42	10000	
Sr	88	45	1	He	471.647	471.647	1.73	3856971	0.01	10000	
Mo	95	103	1	He	17.949	17.949	1.39	64872	0.03	2000	
Ag	107	103	1	He	0.003	0.003	44.42	59	0.01	300	
Cd	111	115	1	He	0.082	0.082	4.64	1426	0.01	4000	
Sn	118	115	1	He	0.072	0.072	40.12	3356	0.00	2000	
Sb	123	115	1	He	1.319	1.319	2.46	6916	0.02	300	
Ba	137	115	1	He	48.368	48.368	1.69	111842	0.04	10000	
W	182	159	1	He	0.155	0.155	23.25	4630	0.00	2500	
Tl	205	165	1	He	0.058	0.058	8.86	1856	0.00	5000	
Pb	208	165	1	He	0.069	0.069	3.95	3484	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1975730	2.10	2317135	85.27	30	120	
Sc	45	1	He	868188	1.85	926381	93.72	30	120	
Sc	45	2	NoGas	8321859	1.84	8695701	95.70	30	120	
Rh	103	1	He	2052491	1.15	2215799	92.63	30	120	
In	115	1	He	1256189	0.33	1382146	90.89	30	120	
Tb	159	1	He	3108083	1.14	3202579	97.05	30	120	
Ho	165	1	He	3163348	1.02	3234085	97.81	30	120	
Bi	209	1	He	2103370	0.29	2214527	94.98	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176132/1-a
Data File Name	082_Blk.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:26:02-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.079	25.1	745	17.2	1	
B	11	45	2	NoGas	5.295	4.3	61238	0.9	20	
Na	23	45	1	He	79.434	3.4	203329	1.4	400	
Mg	24	45	1	He	75.799	4.1	86984	4.6	1000	
Al	27	45	1	He	-11.922	-1.8	4427	3.0	50	
K	39	45	1	He	13.153	17.7	99242	1.4	1000	
Ca	44	45	1	He	207.820	2.0	14037	3.0	1000	
Ti	47	45	1	He	-0.004	-1101.0	16	86.6	20	
V	51	45	1	He	-0.061	-150.5	39	1902.3	2	
Cr	52	45	1	He	1.243	7.9	15637	3.9	2	
Mn	55	45	1	He	-0.006	-71.3	2182	3.4	2	
Fe	56	45	1	He	11.800	1.7	117823	1.9	50	
Co	59	45	1	He	-0.008	-62.9	233	28.5	1	
Ni	60	45	1	He	-0.009	-220.0	621	8.7	2	
Cu	63	45	1	He	0.292	19.6	6412	7.4	2	
Zn	66	45	1	He	4.210	1.7	9867	2.9	20	
As	75	115	1	He	0.480	2.2	900	1.6	2	
Se	78	115	1	He	0.110	32.5	145	2.7	2	
Sr	88	45	1	He	0.700	3.9	6594	4.8	10	
Mo	95	103	1	He	0.200	17.4	852	16.3	2	
Ag	107	103	1	He	0.002	94.2	48	46.5	0.2	
Cd	111	115	1	He	0.071	24.2	1491	2.3	0.2	
Sn	118	115	1	He	0.105	18.8	3738	2.9	10	
Sb	123	115	1	He	0.039	4.2	293	3.0	1	
Ba	137	115	1	He	1.233	5.8	3097	5.7	5	
W	182	159	1	He	0.044	71.7	3660	8.3	10	
Tl	205	165	1	He	-0.006	-4.9	260	2.6	0.5	
Pb	208	165	1	He	0.121	4.0	5397	1.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2112854	0.51	2317135	91.18	30	120	
Sc	45	1	He	921943	2.02	926381	99.52	30	120	
Sc	45	2	NoGas	8758663	1.57	8695701	100.72	30	120	
Rh	103	1	He	2271965	1.39	2215799	102.53	30	120	
In	115	1	He	1334154	0.10	1382146	96.53	30	120	
Tb	159	1	He	3258149	0.99	3202579	101.74	30	120	
Ho	165	1	He	3253955	1.73	3234085	100.61	30	120	
Bi	209	1	He	2294523	0.51	2214527	103.61	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176132/2-a
Data File Name	083_LCS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:29:52-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1011.526	1011.526	1.098	6197892	1.05	1000	101.2	79.5	120.5	
B	11	2	NoGas	109.448	109.448	0.698	443967	1.02	100	109.4	79.5	120.5	
Na	23	1	He	9915.082	9915.082	1.421	17269882	0.77	10000	99.2	79.5	120.5	
Mg	24	1	He	9938.029	9938.029	1.969	9867146	0.60	10000	99.4	79.5	120.5	
Al	27	1	He	9886.178	9886.178	1.544	5365169	0.66	10000	98.9	79.5	120.5	
K	39	1	He	9859.824	9859.824	3.072	10516626	1.03	10000	98.6	79.5	120.5	
Ca	44	1	He	8987.308	8987.308	2.291	484778	0.23	10000	89.9	79.5	120.5	
Ti	47	1	He	97.111	97.111	1.759	29368	0.35	100	97.1	79.5	120.5	
V	51	1	He	999.877	999.877	2.519	7610774	0.50	1000	100.0	79.5	120.5	
Cr	52	1	He	1005.278	1005.278	3.409	8690657	1.44	1000	100.5	79.5	120.5	
Mn	55	1	He	975.713	975.713	2.108	6562550	0.23	1000	97.6	79.5	120.5	
Fe	56	1	He	10241.443	10241.443	1.832	82748499	0.29	10000	102.4	79.5	120.5	
Co	59	1	He	1040.667	1040.667	2.117	12465661	0.18	1000	104.1	79.5	120.5	
Ni	60	1	He	1066.582	1066.582	3.290	3170211	1.25	1000	106.7	79.5	120.5	
Cu	63	1	He	1075.681	1075.681	3.579	8351817	1.70	1000	107.6	79.5	120.5	
Zn	66	1	He	1102.778	1102.778	2.360	1772459	0.66	1000	110.3	79.5	120.5	
As	75	1	He	983.056	983.056	0.869	1225763	0.25	1000	98.3	79.5	120.5	
Se	78	1	He	988.881	988.881	0.206	103408	0.59	1000	98.9	79.5	120.5	
Sr	88	1	He	1039.064	1039.064	2.473	8380018	0.61	1000	103.9	79.5	120.5	
Mo	95	1	He	100.943	100.943	1.438	384383	1.16	100	100.9	79.5	120.5	
Ag	107	1	He	97.638	97.638	0.761	1184975	0.20	100	97.6	79.5	120.5	
Cd	111	1	He	1115.047	1115.047	0.720	2150942	0.39	1000	111.5	79.5	120.5	
Sn	118	1	He	1105.790	1105.790	1.168	5328705	1.30	1000	110.6	79.5	120.5	
Sb	123	1	He	104.501	104.501	1.066	529981	0.44	100	104.5	79.5	120.5	
Ba	137	1	He	1091.788	1091.788	1.325	2467196	1.31	1000	109.2	79.5	120.5	
W	182	1	He	97.623	97.623	0.175	1022185	0.60	100	97.6	79.5	120.5	
Tl	205	1	He	250.784	250.784	1.855	6343023	1.12	250	100.3	79.5	120.5	
Pb	208	1	He	1022.790	1022.790	0.459	34805670	0.91	1000	102.3	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1956907	0.11	2317135	84.45	30	120	
Sc	45	1	He	856393	2.12	926381	92.44	30	120	
Sc	45	2	NoGas	8251447	0.59	8695701	94.89	30	120	
Rh	103	1	He	2163668	0.74	2215799	97.65	30	120	
In	115	1	He	1228390	0.64	1382146	88.88	30	120	
Tb	159	1	He	3161216	0.76	3202579	98.71	30	120	
Ho	165	1	He	3176403	0.87	3234085	98.22	30	120	
Bi	209	1	He	2204202	1.05	2214527	99.53	30	120	

Sample Report

Sample Table

Sample Name	240-49214-d-5-a
Data File Name	084SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:33:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.333	0.333	8.89	2311	0.01	10000	
B	11	45	2	NoGas	96.250	96.250	1.64	400091	0.02	300	
Na	23	45	1	He	53315.650	53315.650	1.07	93258154	0.06	500000	
Mg	24	45	1	He	6054.994	6054.994	1.41	6053859	0.10	500000	
Al	27	45	1	He	-13.777	-13.777	-0.55	3128	-0.44	200000	
K	39	45	1	He	1355.619	1355.619	3.86	1523133	0.09	500000	
Ca	44	45	1	He	31695.312	31695.312	1.19	1716391	1.85	500000	
Ti	47	45	1	He	0.131	0.131	47.71	56	0.24	2500	
V	51	45	1	He	0.403	0.403	19.86	3600	0.01	10000	
Cr	52	45	1	He	1.353	1.353	1.23	15586	0.01	10000	
Mn	55	45	1	He	59.995	59.995	2.40	408092	0.01	10000	
Fe	56	45	1	He	9.623	9.623	11.77	92598	0.01	200000	
Co	59	45	1	He	0.214	0.214	16.13	2898	0.01	10000	
Ni	60	45	1	He	0.246	0.246	6.60	1343	0.02	10000	
Cu	63	45	1	He	0.324	0.324	7.00	6250	0.01	10000	
Zn	66	45	1	He	8.590	8.590	5.93	16294	0.05	10000	
As	75	115	1	He	0.665	0.665	5.43	1101	0.06	10000	
Se	78	115	1	He	0.576	0.576	14.25	190	0.30	10000	
Sr	88	45	1	He	264.704	264.704	2.20	2149236	0.01	10000	
Mo	95	103	1	He	1.399	1.399	13.98	5286	0.03	2000	
Ag	107	103	1	He	0.005	0.005	56.45	84	0.01	300	
Cd	111	115	1	He	0.274	0.274	28.20	1834	0.01	4000	
Sn	118	115	1	He	2.724	2.724	22.82	16683	0.02	2000	
Sb	123	115	1	He	0.405	0.405	14.97	2209	0.02	300	
Ba	137	115	1	He	310.941	310.941	1.40	730601	0.04	10000	
W	182	159	1	He	1.442	1.442	18.36	18448	0.01	2500	
Tl	205	165	1	He	0.180	0.180	25.61	4976	0.00	5000	
Pb	208	165	1	He	0.137	0.137	18.61	5841	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2013401	0.72	2317135	86.89	30	120	
Sc	45	1	He	862033	2.42	926381	93.05	30	120	
Sc	45	2	NoGas	8357691	0.88	8695701	96.11	30	120	
Rh	103	1	He	2126683	2.00	2215799	95.98	30	120	
In	115	1	He	1277222	0.75	1382146	92.41	30	120	
Tb	159	1	He	3207760	1.83	3202579	100.16	30	120	
Ho	165	1	He	3199061	0.34	3234085	98.92	30	120	
Bi	209	1	He	2182591	0.91	2214527	98.56	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49214-d-5-a@5
Data File Name	085SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:37:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.180	0.180	3.61	1422	0.01	10000	
B	11	45	2	NoGas	17.940	17.940	1.76	111714	0.02	300	
Na	23	45	1	He	10962.531	10962.531	1.63	20402775	0.05	500000	
Mg	24	45	1	He	1284.316	1284.316	2.45	1368153	0.09	500000	
Al	27	45	1	He	4.422	4.422	8.42	13858	0.03	200000	
K	39	45	1	He	283.217	283.217	2.23	404209	0.07	500000	
Ca	44	45	1	He	6302.093	6302.093	1.13	364020	1.73	500000	
Ti	47	45	1	He	0.014	0.014	106.01	21	0.07	2500	
V	51	45	1	He	0.153	0.153	23.02	1770	0.01	10000	
Cr	52	45	1	He	0.325	0.325	7.96	7063	0.00	10000	
Mn	55	45	1	He	42.932	42.932	1.21	310790	0.01	10000	
Fe	56	45	1	He	1.379	1.379	2.00	26997	0.01	200000	
Co	59	45	1	He	0.037	0.037	10.68	808	0.00	10000	
Ni	60	45	1	He	-0.030	-0.030	-24.04	549	-0.01	10000	
Cu	63	45	1	He	0.067	0.067	46.15	4504	0.00	10000	
Zn	66	45	1	He	2.035	2.035	7.33	6060	0.03	10000	
As	75	115	1	He	0.146	0.146	4.77	457	0.03	10000	
Se	78	115	1	He	-0.072	-0.072	-42.80	128	-0.06	10000	
Sr	88	45	1	He	49.989	49.989	0.63	431515	0.01	10000	
Mo	95	103	1	He	0.219	0.219	3.62	922	0.02	2000	
Ag	107	103	1	He	0.004	0.004	32.90	78	0.01	300	
Cd	111	115	1	He	0.104	0.104	4.88	1595	0.01	4000	
Sn	118	115	1	He	0.201	0.201	28.58	4338	0.00	2000	
Sb	123	115	1	He	0.082	0.082	8.91	542	0.02	300	
Ba	137	115	1	He	62.847	62.847	0.54	157853	0.04	10000	
W	182	159	1	He	0.188	0.188	9.77	5351	0.00	2500	
Tl	205	165	1	He	0.020	0.020	30.91	952	0.00	5000	
Pb	208	165	1	He	0.030	0.030	15.87	2268	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2123996	0.56	2317135	91.66	30	120	
Sc	45	1	He	915346	1.92	926381	98.81	30	120	
Sc	45	2	NoGas	8813964	1.81	8695701	101.36	30	120	
Rh	103	1	He	2255979	1.02	2215799	101.81	30	120	
In	115	1	He	1364687	0.58	1382146	98.74	30	120	
Tb	159	1	He	3346861	1.72	3202579	104.51	30	120	
Ho	165	1	He	3344419	0.62	3234085	103.41	30	120	
Bi	209	1	He	2291850	1.62	2214527	103.49	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49214-d-5-a
Data File Name	086SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:41:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1046.834	1046.834	1.72	6091305	0.02	10000	
B	11	45	2	NoGas	205.537	205.537	0.23	766955	0.03	300	
Na	23	45	1	He	61398.569	61398.569	2.31	104267651	0.06	500000	
Mg	24	45	1	He	15785.442	15785.442	2.02	15316929	0.10	500000	
Al	27	45	1	He	10067.547	10067.547	1.79	5340405	0.19	200000	
K	39	45	1	He	11260.780	11260.780	1.10	11733655	0.10	500000	
Ca	44	45	1	He	41004.898	41004.898	3.15	2155523	1.90	500000	
Ti	47	45	1	He	100.379	100.379	0.28	29684	0.34	2500	
V	51	45	1	He	1037.149	1037.149	1.97	7717562	0.01	10000	
Cr	52	45	1	He	1026.279	1026.279	2.77	8673223	0.01	10000	
Mn	55	45	1	He	1052.795	1052.795	2.28	6921378	0.02	10000	
Fe	56	45	1	He	10242.687	10242.687	1.23	80907146	0.01	200000	
Co	59	45	1	He	1051.805	1051.805	2.04	12315918	0.01	10000	
Ni	60	45	1	He	1082.190	1082.190	2.33	3144907	0.03	10000	
Cu	63	45	1	He	1064.729	1064.729	2.08	8082722	0.01	10000	
Zn	66	45	1	He	1088.693	1088.693	1.64	1710923	0.06	10000	
As	75	115	1	He	1022.799	1022.799	0.24	1217989	0.08	10000	
Se	78	115	1	He	1017.034	1017.034	0.30	101567	1.00	10000	
Sr	88	45	1	He	1316.916	1316.916	2.13	10382520	0.01	10000	
Mo	95	103	1	He	108.492	108.492	0.09	389612	0.03	2000	
Ag	107	103	1	He	101.121	101.121	0.96	1157388	0.01	300	
Cd	111	115	1	He	1154.200	1154.200	0.66	2126286	0.05	4000	
Sn	118	115	1	He	1145.464	1145.464	0.21	5271556	0.02	2000	
Sb	123	115	1	He	109.515	109.515	0.86	530459	0.02	300	
Ba	137	115	1	He	1506.446	1506.446	1.41	3251168	0.05	10000	
W	182	159	1	He	103.391	103.391	0.35	1064919	0.01	2500	
Tl	205	165	1	He	255.332	255.332	0.80	6377341	0.00	5000	
Pb	208	165	1	He	1036.346	1036.346	0.34	34824078	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1858606	1.11	2317135	80.21	30	120	
Sc	45	1	He	837209	2.78	926381	90.37	30	120	
Sc	45	2	NoGas	7907506	0.91	8695701	90.94	30	120	
Rh	103	1	He	2040430	0.35	2215799	92.09	30	120	
In	115	1	He	1173136	0.55	1382146	84.88	30	120	
Tb	159	1	He	3110127	0.59	3202579	97.11	30	120	
Ho	165	1	He	3136561	1.06	3234085	96.98	30	120	
Bi	209	1	He	2128296	1.86	2214527	96.11	30	120	

Sample Report

Sample Table

Sample Name	240-49214-d-5-b ms
Data File Name	087SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:44:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1061.041	1061.041	0.07	6259607	0.02	10000	
B	11	45	2	NoGas	207.150	207.150	0.98	776654	0.03	300	
Na	23	45	1	He	64267.261	64267.261	2.27	108122248	0.06	500000	
Mg	24	45	1	He	16400.672	16400.672	2.64	15764880	0.10	500000	
Al	27	45	1	He	10377.429	10377.429	1.10	5454014	0.19	200000	
K	39	45	1	He	11663.655	11663.655	2.34	12035264	0.10	500000	
Ca	44	45	1	He	41680.320	41680.320	2.19	2170790	1.92	500000	
Ti	47	45	1	He	103.489	103.489	2.95	30304	0.34	2500	
V	51	45	1	He	1055.082	1055.082	1.01	7779570	0.01	10000	
Cr	52	45	1	He	1057.665	1057.665	0.47	8859043	0.01	10000	
Mn	55	45	1	He	1070.359	1070.359	3.00	6970676	0.02	10000	
Fe	56	45	1	He	10664.023	10664.023	2.31	83437028	0.01	200000	
Co	59	45	1	He	1076.556	1076.556	1.95	12489095	0.01	10000	
Ni	60	45	1	He	1105.089	1105.089	3.30	3180899	0.03	10000	
Cu	63	45	1	He	1105.961	1105.961	2.92	8316212	0.01	10000	
Zn	66	45	1	He	1136.862	1136.862	1.42	1769798	0.06	10000	
As	75	115	1	He	1039.428	1039.428	0.49	1240920	0.08	10000	
Se	78	115	1	He	1029.755	1029.755	0.50	103095	1.00	10000	
Sr	88	45	1	He	1353.300	1353.300	2.94	10568767	0.01	10000	
Mo	95	103	1	He	112.845	112.845	2.18	406466	0.03	2000	
Ag	107	103	1	He	103.588	103.588	1.88	1189251	0.01	300	
Cd	111	115	1	He	1165.585	1165.585	1.32	2152704	0.05	4000	
Sn	118	115	1	He	1171.000	1171.000	0.97	5402787	0.02	2000	
Sb	123	115	1	He	111.339	111.339	0.47	540647	0.02	300	
Ba	137	115	1	He	1507.999	1507.999	1.21	3262637	0.05	10000	
W	182	159	1	He	106.292	106.292	2.59	1095600	0.01	2500	
Tl	205	165	1	He	254.572	254.572	0.54	6323079	0.00	5000	
Pb	208	165	1	He	1058.730	1058.730	0.73	35377492	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1884155	0.22	2317135	81.31	30	120	
Sc	45	1	He	829415	2.54	926381	89.53	30	120	
Sc	45	2	NoGas	7948370	0.84	8695701	91.41	30	120	
Rh	103	1	He	2047095	1.72	2215799	92.39	30	120	
In	115	1	He	1176118	0.46	1382146	85.09	30	120	
Tb	159	1	He	3113666	1.97	3202579	97.22	30	120	
Ho	165	1	He	3119025	0.31	3234085	96.44	30	120	
Bi	209	1	He	2116274	0.51	2214527	95.56	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	088_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:48:04-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.712	1.800	315011	1.35	50	97.4	89.5	110.5	
B	11	45	2	NoGas	50.542	1.187	233879	0.65	50	101.1	89.5	110.5	
Na	23	45	1	He	25280.885	2.338	46431126	1.02	25000	101.1	89.5	110.5	
Mg	24	45	1	He	25132.104	2.739	26350871	1.51	25000	100.5	89.5	110.5	
Al	27	45	1	He	239.653	2.477	148284	1.11	250	95.9	89.5	110.5	
K	39	45	1	He	25452.655	2.932	28550289	0.86	25000	101.8	89.5	110.5	
Ca	44	45	1	He	25611.035	0.937	1456294	2.45	25000	102.4	89.5	110.5	
Ti	47	45	1	He	50.751	3.436	16217	0.11	50	101.5	89.5	110.5	
V	51	45	1	He	51.198	2.756	412180	0.64	50	102.4	89.5	110.5	
Cr	52	45	1	He	51.221	3.288	471593	0.61	50	102.4	89.5	110.5	
Mn	55	45	1	He	260.631	3.867	1853026	1.55	250	104.3	89.5	110.5	
Fe	56	45	1	He	12797.993	3.359	109209287	0.53	12500	102.4	89.5	110.5	
Co	59	45	1	He	51.629	3.065	653555	0.38	50	103.3	89.5	110.5	
Ni	60	45	1	He	51.610	2.552	162684	0.81	50	103.2	89.5	110.5	
Cu	63	45	1	He	51.943	2.030	429889	1.50	50	103.9	89.5	110.5	
Zn	66	45	1	He	51.327	3.970	89547	0.79	50	102.7	89.5	110.5	
As	75	115	1	He	51.046	1.339	67752	1.20	50	102.1	89.5	110.5	
Se	78	115	1	He	50.076	2.235	5678	2.02	50	100.2	89.5	110.5	
Sr	88	45	1	He	51.484	2.408	439141	1.00	50	103.0	89.5	110.5	
Mo	95	103	1	He	50.669	1.845	192820	1.58	50	101.3	89.5	110.5	
Ag	107	103	1	He	50.357	0.576	610717	0.76	50	100.7	89.5	110.5	
Cd	111	115	1	He	51.583	1.973	106807	1.73	50	103.2	89.5	110.5	
Sn	118	115	1	He	51.591	1.258	266704	1.14	50	103.2	89.5	110.5	
Sb	123	115	1	He	53.339	0.412	287013	0.23	50	106.7	89.5	110.5	
Ba	137	115	1	He	51.243	0.515	122910	0.44	50	102.5	89.5	110.5	
W	182	159	1	He	49.571	1.279	536506	0.95	50	99.1	89.5	110.5	
Tl	205	165	1	He	49.028	1.312	1268810	0.68	50	98.1	89.5	110.5	
Pb	208	165	1	He	49.608	1.012	1727830	0.78	50	99.2	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2064162	1.06	2317135	89.08	30	120	
Sc	45	1	He	904941	3.39	926381	97.69	30	120	
Sc	45	2	NoGas	8558089	0.35	8695701	98.42	30	120	
Rh	103	1	He	2161977	0.29	2215799	97.57	30	120	
In	115	1	He	1303102	0.23	1382146	94.28	30	120	
Tb	159	1	He	3258123	0.76	3202579	101.73	30	120	
Ho	165	1	He	3249121	1.02	3234085	100.46	30	120	
Bi	209	1	He	2209178	1.09	2214527	99.76	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	089_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:51:54-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.328	9.3	2371	7.3	1	
B	11	45	2	NoGas	-0.422	-59.9	37828	1.9	20	
Na	23	45	1	He	11.530	12.6	72052	2.3	400	
Mg	24	45	1	He	-2.412	-26.3	3204	18.4	1000	
Al	27	45	1	He	-17.550	-0.4	1080	2.6	50	
K	39	45	1	He	2.422	124.2	82070	2.5	1000	
Ca	44	45	1	He	-23.409	-3.0	618	4.8	1000	
Ti	47	45	1	He	0.112	34.6	50	23.1	20	
V	51	45	1	He	0.072	92.7	1059	48.5	2	
Cr	52	45	1	He	0.058	9.8	4357	1.6	2	
Mn	55	45	1	He	-0.180	-7.2	869	9.3	2	
Fe	56	45	1	He	15.237	33.4	138978	28.5	50	
Co	59	45	1	He	0.054	11.8	968	7.0	1	
Ni	60	45	1	He	-0.103	-11.4	302	10.7	2	
Cu	63	45	1	He	0.053	54.5	4166	4.8	2	
Zn	66	45	1	He	-0.759	-2.3	1206	3.4	20	
As	75	115	1	He	0.083	14.7	369	4.8	2	
Se	78	115	1	He	0.045	280.5	141	10.8	2	
Sr	88	45	1	He	0.017	21.3	622	4.3	10	
Mo	95	103	1	He	1.067	24.5	4285	24.4	2	
Ag	107	103	1	He	0.010	32.1	147	27.3	0.2	
Cd	111	115	1	He	0.180	19.9	1751	4.4	0.2	
Sn	118	115	1	He	0.560	16.6	6231	7.9	10	
Sb	123	115	1	He	0.350	11.7	2042	11.3	1	
Ba	137	115	1	He	0.059	14.8	221	10.0	5	
W	182	159	1	He	1.336	12.5	17466	10.1	10	
Tl	205	165	1	He	0.087	16.6	2680	13.8	0.5	
Pb	208	165	1	He	0.052	6.8	2970	3.8	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2097247	1.14	2317135	90.51	30	120	
Sc	45	1	He	869653	1.39	926381	93.88	30	120	
Sc	45	2	NoGas	8554262	0.69	8695701	98.37	30	120	
Rh	103	1	He	2251525	1.45	2215799	101.61	30	120	
In	115	1	He	1359188	0.31	1382146	98.34	30	120	
Tb	159	1	He	3240652	1.04	3202579	101.19	30	120	
Ho	165	1	He	3261204	0.92	3234085	100.84	30	120	
Bi	209	1	He	2256142	0.37	2214527	101.88	30	120	

Sample Report

Sample Table

Sample Name	240-49214-d-5-c msd
Data File Name	090SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:55:45-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1061.743	1061.743	0.88	6264602	0.02	10000	
B	11	45	2	NoGas	201.732	201.732	1.59	766823	0.03	300	
Na	23	45	1	He	61298.023	61298.023	2.39	105305988	0.06	500000	
Mg	24	45	1	He	15881.004	15881.004	2.18	15588978	0.10	500000	
Al	27	45	1	He	9996.733	9996.733	2.55	5363930	0.19	200000	
K	39	45	1	He	11319.913	11319.913	2.51	11929183	0.09	500000	
Ca	44	45	1	He	40664.876	40664.876	4.00	2161827	1.88	500000	
Ti	47	45	1	He	101.248	101.248	4.54	30267	0.33	2500	
V	51	45	1	He	1038.219	1038.219	2.35	7815043	0.01	10000	
Cr	52	45	1	He	1031.013	1031.013	3.43	8813108	0.01	10000	
Mn	55	45	1	He	1051.897	1051.897	2.91	6995158	0.02	10000	
Fe	56	45	1	He	10323.474	10323.474	3.70	82453219	0.01	200000	
Co	59	45	1	He	1056.529	1056.529	3.24	12512326	0.01	10000	
Ni	60	45	1	He	1071.512	1071.512	3.70	3148942	0.03	10000	
Cu	63	45	1	He	1067.423	1067.423	3.81	8194153	0.01	10000	
Zn	66	45	1	He	1101.817	1101.817	3.36	1750826	0.06	10000	
As	75	115	1	He	1035.038	1035.038	0.71	1243988	0.08	10000	
Se	78	115	1	He	1020.686	1020.686	1.16	102873	0.99	10000	
Sr	88	45	1	He	1318.308	1318.308	3.20	10511981	0.01	10000	
Mo	95	103	1	He	110.077	110.077	0.90	394998	0.03	2000	
Ag	107	103	1	He	102.308	102.308	0.64	1170071	0.01	300	
Cd	111	115	1	He	1152.202	1152.202	1.79	2142255	0.05	4000	
Sn	118	115	1	He	1146.893	1146.893	1.42	5326887	0.02	2000	
Sb	123	115	1	He	109.649	109.649	0.84	536018	0.02	300	
Ba	137	115	1	He	1504.754	1504.754	1.15	3277735	0.05	10000	
W	182	159	1	He	104.385	104.385	0.16	1069863	0.01	2500	
Tl	205	165	1	He	249.317	249.317	0.52	6282555	0.00	5000	
Pb	208	165	1	He	1028.390	1028.390	0.52	34863509	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1884589	2.12	2317135	81.33	30	120	
Sc	45	1	He	847062	3.46	926381	91.44	30	120	
Sc	45	2	NoGas	8049507	2.08	8695701	92.57	30	120	
Rh	103	1	He	2038910	0.70	2215799	92.02	30	120	
In	115	1	He	1184040	0.55	1382146	85.67	30	120	
Tb	159	1	He	3094897	1.08	3202579	96.64	30	120	
Ho	165	1	He	3164299	0.46	3234085	97.84	30	120	
Bi	209	1	He	2143932	0.23	2214527	96.81	30	120	

Sample Report

Sample Table

Sample Name	240-49213-k-1-a
Data File Name	091SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T14:59:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.573	1.573	5.83	9310	0.02	10000	
B	11	45	2	NoGas	343.601	343.601	1.07	1245716	0.03	300	>LDR
Na	23	45	1	He	148170.007	148170.007	2.29	248787412	0.06	500000	
Mg	24	45	1	He	34652.310	34652.310	1.90	33247666	0.10	500000	
Al	27	45	1	He	816.077	816.077	2.26	437473	0.19	200000	
K	39	45	1	He	8528.486	8528.486	2.11	8805277	0.10	500000	
Ca	44	45	1	He	43631.551	43631.551	3.31	2267804	1.92	500000	
Ti	47	45	1	He	0.368	0.368	22.60	122	0.30	2500	
V	51	45	1	He	0.349	0.349	18.15	3055	0.01	10000	
Cr	52	45	1	He	1.667	1.667	0.45	17603	0.01	10000	
Mn	55	45	1	He	3565.976	3565.976	2.44	23180725	0.02	10000	
Fe	56	45	1	He	18696.518	18696.518	2.15	146023465	0.01	200000	
Co	59	45	1	He	77.746	77.746	2.06	900592	0.01	10000	
Ni	60	45	1	He	33.081	33.081	2.34	95632	0.03	10000	
Cu	63	45	1	He	5.667	5.667	1.47	46109	0.01	10000	
Zn	66	45	1	He	159.704	159.704	1.31	250174	0.06	10000	
As	75	115	1	He	1.518	1.518	0.47	2089	0.07	10000	
Se	78	115	1	He	2.705	2.705	4.04	398	0.68	10000	
Sr	88	45	1	He	259.203	259.203	2.44	2021226	0.01	10000	
Mo	95	103	1	He	0.997	0.997	16.06	3572	0.03	2000	
Ag	107	103	1	He	0.016	0.016	28.89	206	0.01	300	
Cd	111	115	1	He	8.394	8.394	2.74	17140	0.05	4000	
Sn	118	115	1	He	3.383	3.383	16.25	18915	0.02	2000	
Sb	123	115	1	He	0.438	0.438	8.35	2259	0.02	300	
Ba	137	115	1	He	15.035	15.035	0.15	33499	0.04	10000	
W	182	159	1	He	1.406	1.406	19.73	17518	0.01	2500	
Tl	205	165	1	He	0.251	0.251	19.49	6685	0.00	5000	
Pb	208	165	1	He	0.547	0.547	4.17	19540	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1848823	2.08	2317135	79.79	30	120	
Sc	45	1	He	827950	2.62	926381	89.37	30	120	
Sc	45	2	NoGas	7832315	0.78	8695701	90.07	30	120	
Rh	103	1	He	2008043	0.54	2215799	90.62	30	120	
In	115	1	He	1208825	0.63	1382146	87.46	30	120	
Tb	159	1	He	3117125	0.18	3202579	97.33	30	120	
Ho	165	1	He	3142159	0.93	3234085	97.16	30	120	
Bi	209	1	He	2073635	0.63	2214527	93.64	30	120	

Sample Report

Sample Table

Sample Name	240-49213-I-1-a
Data File Name	092SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:03:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.416	1.416	3.29	8287	0.02	10000	
B	11	45	2	NoGas	347.440	347.440	0.36	1273534	0.03	300	>LDR
Na	23	45	1	He	152750.957	152750.957	1.82	255801642	0.06	500000	
Mg	24	45	1	He	35760.627	35760.627	1.48	34221808	0.10	500000	
Al	27	45	1	He	628.661	628.661	1.52	338496	0.19	200000	
K	39	45	1	He	8928.199	8928.199	3.58	9187919	0.10	500000	
Ca	44	45	1	He	43941.111	43941.111	2.75	2278085	1.93	500000	
Ti	47	45	1	He	0.288	0.288	33.49	99	0.29	2500	
V	51	45	1	He	0.387	0.387	27.78	3308	0.01	10000	
Cr	52	45	1	He	1.647	1.647	3.51	17380	0.01	10000	
Mn	55	45	1	He	3749.976	3749.976	0.31	24321292	0.02	10000	
Fe	56	45	1	He	19374.629	19374.629	1.56	150940754	0.01	200000	
Co	59	45	1	He	80.589	80.589	1.28	931145	0.01	10000	
Ni	60	45	1	He	34.119	34.119	1.58	98376	0.03	10000	
Cu	63	45	1	He	4.164	4.164	0.42	34736	0.01	10000	
Zn	66	45	1	He	165.876	165.876	1.69	259047	0.06	10000	
As	75	115	1	He	1.045	1.045	7.88	1514	0.07	10000	
Se	78	115	1	He	2.051	2.051	6.65	332	0.62	10000	
Sr	88	45	1	He	257.597	257.597	3.55	2003126	0.01	10000	
Mo	95	103	1	He	0.218	0.218	1.48	824	0.03	2000	
Ag	107	103	1	He	0.007	0.007	14.97	96	0.01	300	
Cd	111	115	1	He	8.118	8.118	1.58	16679	0.05	4000	
Sn	118	115	1	He	0.966	0.966	4.41	7495	0.01	2000	
Sb	123	115	1	He	0.186	0.186	11.12	1003	0.02	300	
Ba	137	115	1	He	13.285	13.285	3.26	29713	0.04	10000	
W	182	159	1	He	0.277	0.277	4.90	5957	0.00	2500	
Tl	205	165	1	He	0.101	0.101	9.86	2926	0.00	5000	
Pb	208	165	1	He	0.373	0.373	2.67	13662	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1826649	1.57	2317135	78.83	30	120	
Sc	45	1	He	825724	2.32	926381	89.13	30	120	
Sc	45	2	NoGas	7921476	0.34	8695701	91.10	30	120	
Rh	103	1	He	2026343	1.25	2215799	91.45	30	120	
In	115	1	He	1213234	0.99	1382146	87.78	30	120	
Tb	159	1	He	3143809	0.51	3202579	98.16	30	120	
Ho	165	1	He	3134365	0.90	3234085	96.92	30	120	
Bi	209	1	He	2075923	0.75	2214527	93.74	30	120	

Sample Report

Sample Table

Sample Name	240-49213-I-3-a
Data File Name	093SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:06:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.336	0.336	6.59	2274	0.01	10000	
B	11	45	2	NoGas	304.195	304.195	0.94	1178856	0.03	300	>LDR
Na	23	45	1	He	31876.957	31876.957	0.92	56073185	0.06	500000	
Mg	24	45	1	He	39756.569	39756.569	1.40	39929391	0.10	500000	
Al	27	45	1	He	-5.399	-5.399	-8.60	7741	-0.07	200000	
K	39	45	1	He	12923.267	12923.267	1.79	13926469	0.09	500000	
Ca	44	45	1	He	271900.940	271900.940	2.02	14787168	1.84	500000	
Ti	47	45	1	He	0.473	0.473	21.59	160	0.30	2500	
V	51	45	1	He	1.950	1.950	3.54	15526	0.01	10000	
Cr	52	45	1	He	2.551	2.551	1.47	26152	0.01	10000	
Mn	55	45	1	He	39.756	39.756	1.89	272594	0.01	10000	
Fe	56	45	1	He	62.248	62.248	1.09	523304	0.01	200000	
Co	59	45	1	He	3.539	3.539	2.14	43217	0.01	10000	
Ni	60	45	1	He	4.111	4.111	3.77	12971	0.03	10000	
Cu	63	45	1	He	7.566	7.566	3.74	63149	0.01	10000	
Zn	66	45	1	He	21.040	21.040	1.91	36608	0.06	10000	
As	75	115	1	He	1.369	1.369	5.34	1967	0.07	10000	
Se	78	115	1	He	0.621	0.621	17.06	190	0.33	10000	
Sr	88	45	1	He	1335.135	1335.135	2.01	10896507	0.01	10000	
Mo	95	103	1	He	2.288	2.288	1.10	8347	0.03	2000	
Ag	107	103	1	He	0.005	0.005	36.48	81	0.01	300	
Cd	111	115	1	He	6.142	6.142	1.00	13281	0.05	4000	
Sn	118	115	1	He	0.629	0.629	3.17	6057	0.01	2000	
Sb	123	115	1	He	2.994	2.994	1.65	15492	0.02	300	
Ba	137	115	1	He	32.850	32.850	1.49	75450	0.04	10000	
W	182	159	1	He	0.373	0.373	4.19	6950	0.01	2500	
Tl	205	165	1	He	0.024	0.024	10.44	1008	0.00	5000	
Pb	208	165	1	He	0.576	0.576	2.13	20721	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1966364	0.82	2317135	84.86	30	120	
Sc	45	1	He	866582	2.09	926381	93.54	30	120	
Sc	45	2	NoGas	8341184	0.66	8695701	95.92	30	120	
Rh	103	1	He	2060873	1.43	2215799	93.01	30	120	
In	115	1	He	1247478	0.51	1382146	90.26	30	120	
Tb	159	1	He	3144995	1.01	3202579	98.20	30	120	
Ho	165	1	He	3173449	0.94	3234085	98.13	30	120	
Bi	209	1	He	2096555	0.65	2214527	94.67	30	120	

Sample Report

Sample Table

Sample Name	240-49213-n-3-a
Data File Name	094SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:10:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.266	0.266	16.60	1789	0.01	10000	
B	11	45	2	NoGas	321.755	321.755	3.65	1218666	0.03	300	>LDR
Na	23	45	1	He	31461.893	31461.893	1.70	54997661	0.06	500000	
Mg	24	45	1	He	39877.034	39877.034	1.65	39802308	0.10	500000	
Al	27	45	1	He	-8.769	-8.769	-5.92	5852	-0.15	200000	
K	39	45	1	He	12946.674	12946.674	3.47	13861835	0.09	500000	
Ca	44	45	1	He	266160.446	266160.446	1.99	14385235	1.85	500000	
Ti	47	45	1	He	0.406	0.406	22.17	139	0.29	2500	
V	51	45	1	He	2.447	2.447	6.68	19236	0.01	10000	
Cr	52	45	1	He	3.061	3.061	3.49	30412	0.01	10000	
Mn	55	45	1	He	50.397	50.397	2.53	342835	0.01	10000	
Fe	56	45	1	He	78.002	78.002	2.18	647877	0.01	200000	
Co	59	45	1	He	3.868	3.868	1.94	46910	0.01	10000	
Ni	60	45	1	He	4.188	4.188	3.01	13123	0.03	10000	
Cu	63	45	1	He	7.030	7.030	2.98	58585	0.01	10000	
Zn	66	45	1	He	22.157	22.157	1.67	38190	0.06	10000	
As	75	115	1	He	1.586	1.586	2.76	2200	0.07	10000	
Se	78	115	1	He	0.611	0.611	21.25	185	0.33	10000	
Sr	88	45	1	He	1314.271	1314.271	1.15	10661798	0.01	10000	
Mo	95	103	1	He	2.262	2.262	5.82	8220	0.03	2000	
Ag	107	103	1	He	0.003	0.003	28.09	58	0.01	300	
Cd	111	115	1	He	6.231	6.231	3.67	13203	0.05	4000	
Sn	118	115	1	He	0.658	0.658	7.01	6087	0.01	2000	
Sb	123	115	1	He	2.955	2.955	2.68	15008	0.02	300	
Ba	137	115	1	He	33.866	33.866	1.78	76342	0.04	10000	
W	182	159	1	He	0.317	0.317	11.52	6320	0.01	2500	
Tl	205	165	1	He	0.017	0.017	18.89	826	0.00	5000	
Pb	208	165	1	He	0.527	0.527	2.02	19086	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1905929	0.89	2317135	82.25	30	120	
Sc	45	1	He	861283	2.32	926381	92.97	30	120	
Sc	45	2	NoGas	8167800	1.94	8695701	93.93	30	120	
Rh	103	1	He	2053028	0.86	2215799	92.65	30	120	
In	115	1	He	1224527	1.38	1382146	88.60	30	120	
Tb	159	1	He	3121268	0.53	3202579	97.46	30	120	
Ho	165	1	He	3179923	0.30	3234085	98.33	30	120	
Bi	209	1	He	2113450	0.57	2214527	95.44	30	120	

Sample Report

Sample Table

Sample Name	240-49213-j-5-a
Data File Name	095SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:14:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.221	0.221	3.52	1485	0.01	10000	
B	11	45	2	NoGas	272.427	272.427	1.33	1016389	0.03	300	
Na	23	45	1	He	95149.895	95149.895	2.58	161159457	0.06	500000	
Mg	24	45	1	He	47407.939	47407.939	2.96	45872458	0.10	500000	
Al	27	45	1	He	-4.052	-4.052	-24.91	8159	-0.05	200000	
K	39	45	1	He	12024.965	12024.965	3.44	12489346	0.10	500000	
Ca	44	45	1	He	186609.031	186609.031	2.27	9779965	1.91	500000	
Ti	47	45	1	He	0.439	0.439	17.77	144	0.30	2500	
V	51	45	1	He	17.216	17.216	3.13	128249	0.01	10000	
Cr	52	45	1	He	2.065	2.065	4.94	21096	0.01	10000	
Mn	55	45	1	He	1107.888	1107.888	3.36	7264923	0.02	10000	
Fe	56	45	1	He	5469.463	5469.463	3.60	43087712	0.01	200000	
Co	59	45	1	He	0.295	0.295	3.54	3748	0.01	10000	
Ni	60	45	1	He	0.838	0.838	4.39	3018	0.03	10000	
Cu	63	45	1	He	1.763	1.763	4.65	16937	0.01	10000	
Zn	66	45	1	He	6.275	6.275	3.25	12165	0.05	10000	
As	75	115	1	He	0.996	0.996	1.92	1447	0.07	10000	
Se	78	115	1	He	0.360	0.360	8.62	157	0.23	10000	
Sr	88	45	1	He	970.488	970.488	2.91	7632843	0.01	10000	
Mo	95	103	1	He	0.399	0.399	1.71	1458	0.03	2000	
Ag	107	103	1	He	0.019	0.019	10.67	240	0.01	300	
Cd	111	115	1	He	0.332	0.332	5.42	1845	0.02	4000	
Sn	118	115	1	He	0.450	0.450	7.42	5019	0.01	2000	
Sb	123	115	1	He	0.325	0.325	3.78	1691	0.02	300	
Ba	137	115	1	He	123.985	123.985	0.99	275506	0.05	10000	
W	182	159	1	He	0.388	0.388	2.75	7057	0.01	2500	
Tl	205	165	1	He	0.005	0.005	52.62	531	0.00	5000	
Pb	208	165	1	He	1.048	1.048	1.64	36165	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1860353	0.71	2317135	80.29	30	120	
Sc	45	1	He	835249	3.01	926381	90.16	30	120	
Sc	45	2	NoGas	7999557	0.21	8695701	91.99	30	120	
Rh	103	1	He	2008542	1.50	2215799	90.65	30	120	
In	115	1	He	1207681	0.68	1382146	87.38	30	120	
Tb	159	1	He	3123080	1.48	3202579	97.52	30	120	
Ho	165	1	He	3122689	1.22	3234085	96.56	30	120	
Bi	209	1	He	2051328	0.81	2214527	92.63	30	120	

Sample Report

Sample Table

Sample Name	240-49213-k-5-a
Data File Name	096SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:18:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.207	0.207	12.42	1422	0.01	10000	
B	11	45	2	NoGas	265.343	265.343	2.72	997806	0.03	300	
Na	23	45	1	He	90921.131	90921.131	1.67	155365738	0.06	500000	
Mg	24	45	1	He	46042.233	46042.233	1.55	44949435	0.10	500000	
Al	27	45	1	He	-1.966	-1.966	-39.34	9346	-0.02	200000	
K	39	45	1	He	11599.439	11599.439	1.84	12158624	0.10	500000	
Ca	44	45	1	He	184508.651	184508.651	1.80	9754694	1.89	500000	
Ti	47	45	1	He	0.538	0.538	29.21	174	0.31	2500	
V	51	45	1	He	16.465	16.465	3.11	123744	0.01	10000	
Cr	52	45	1	He	1.999	1.999	4.16	20723	0.01	10000	
Mn	55	45	1	He	1064.445	1064.445	2.89	7041249	0.02	10000	
Fe	56	45	1	He	5231.347	5231.347	1.70	41585107	0.01	200000	
Co	59	45	1	He	0.282	0.282	2.44	3634	0.01	10000	
Ni	60	45	1	He	0.951	0.951	4.25	3375	0.03	10000	
Cu	63	45	1	He	0.296	0.296	14.09	5890	0.01	10000	
Zn	66	45	1	He	1.846	1.846	9.14	5278	0.03	10000	
As	75	115	1	He	0.896	0.896	3.86	1327	0.07	10000	
Se	78	115	1	He	0.226	0.226	2.20	144	0.16	10000	
Sr	88	45	1	He	946.090	946.090	2.00	7505976	0.01	10000	
Mo	95	103	1	He	0.365	0.365	2.06	1353	0.03	2000	
Ag	107	103	1	He	0.006	0.006	67.41	93	0.01	300	
Cd	111	115	1	He	0.149	0.149	17.72	1501	0.01	4000	
Sn	118	115	1	He	0.329	0.329	14.20	4456	0.01	2000	
Sb	123	115	1	He	0.268	0.268	11.95	1411	0.02	300	
Ba	137	115	1	He	122.657	122.657	0.36	273213	0.04	10000	
W	182	159	1	He	0.400	0.400	4.04	7176	0.01	2500	
Tl	205	165	1	He	0.000	0.000	-841.74	388	0.00	5000	
Pb	208	165	1	He	0.105	0.105	2.65	4625	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1885989	1.84	2317135	81.39	30	120	
Sc	45	1	He	842430	2.42	926381	90.94	30	120	
Sc	45	2	NoGas	8058972	2.76	8695701	92.68	30	120	
Rh	103	1	He	2032656	1.34	2215799	91.73	30	120	
In	115	1	He	1210535	0.39	1382146	87.58	30	120	
Tb	159	1	He	3122492	0.81	3202579	97.50	30	120	
Ho	165	1	He	3126748	1.54	3234085	96.68	30	120	
Bi	209	1	He	2076594	0.97	2214527	93.77	30	120	

Sample Report

Sample Table

Sample Name	240-49213-m-7-a
Data File Name	097SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:22:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	4.103	4.103	6.88	23857	0.02	10000	
B	11	45	2	NoGas	253.564	253.564	0.70	999232	0.03	300	
Na	23	45	1	He	125932.585	125932.585	2.11	224464510	0.06	500000	
Mg	24	45	1	He	39296.942	39296.942	1.89	40025014	0.10	500000	
Al	27	45	1	He	6603.101	6603.101	2.19	3680753	0.18	200000	
K	39	45	1	He	7024.348	7024.348	2.92	7711557	0.09	500000	
Ca	44	45	1	He	59871.718	59871.718	1.20	3303881	1.81	500000	
Ti	47	45	1	He	0.813	0.813	41.81	267	0.30	2500	
V	51	45	1	He	0.418	0.418	31.02	3778	0.01	10000	
Cr	52	45	1	He	4.291	4.291	2.31	41952	0.01	10000	
Mn	55	45	1	He	4931.656	4931.656	1.85	34032522	0.01	10000	
Fe	56	45	1	He	426.310	426.310	2.29	3548406	0.01	200000	
Co	59	45	1	He	226.598	226.598	2.54	2785471	0.01	10000	
Ni	60	45	1	He	99.146	99.146	2.47	303023	0.03	10000	
Cu	63	45	1	He	33.300	33.300	2.22	269046	0.01	10000	
Zn	66	45	1	He	250.970	250.970	2.09	415878	0.06	10000	
As	75	115	1	He	5.604	5.604	1.03	7105	0.08	10000	
Se	78	115	1	He	18.690	18.690	1.06	2043	0.91	10000	
Sr	88	45	1	He	460.050	460.050	1.87	3808059	0.01	10000	
Mo	95	103	1	He	0.116	0.116	4.56	454	0.03	2000	
Ag	107	103	1	He	0.006	0.006	16.66	90	0.01	300	
Cd	111	115	1	He	215.445	215.445	0.88	410223	0.05	4000	
Sn	118	115	1	He	0.673	0.673	13.60	6083	0.01	2000	
Sb	123	115	1	He	0.075	0.075	3.53	446	0.02	300	
Ba	137	115	1	He	15.262	15.262	1.70	34027	0.04	10000	
W	182	159	1	He	0.100	0.100	18.21	4719	0.00	2500	
Tl	205	165	1	He	0.208	0.208	0.68	6422	0.00	5000	
Pb	208	165	1	He	0.498	0.498	4.79	20530	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1843081	1.54	2317135	79.54	30	120	
Sc	45	1	He	878871	2.53	926381	94.87	30	120	
Sc	45	2	NoGas	8426960	0.43	8695701	96.91	30	120	
Rh	103	1	He	2002416	0.79	2215799	90.37	30	120	
In	115	1	He	1209581	0.63	1382146	87.51	30	120	
Tb	159	1	He	3607168	0.52	3202579	112.63	30	120	
Ho	165	1	He	3605354	1.38	3234085	111.48	30	120	
Bi	209	1	He	2088538	0.77	2214527	94.31	30	120	

Sample Report

Sample Table

Sample Name	240-49213-n-7-a
Data File Name	098SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:25:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.473	3.473	2.16	20568	0.02	10000	
B	11	45	2	NoGas	287.243	287.243	0.19	1126124	0.03	300	
Na	23	45	1	He	132417.472	132417.472	2.35	236810020	0.06	500000	
Mg	24	45	1	He	41115.492	41115.492	1.86	42016738	0.10	500000	
Al	27	45	1	He	4574.493	4574.493	2.99	2561587	0.18	200000	
K	39	45	1	He	7956.320	7956.320	1.17	8756161	0.09	500000	
Ca	44	45	1	He	66297.171	66297.171	1.91	3670202	1.81	500000	
Ti	47	45	1	He	0.167	0.167	15.93	68	0.25	2500	
V	51	45	1	He	0.290	0.290	43.20	2783	0.01	10000	
Cr	52	45	1	He	3.914	3.914	2.88	38740	0.01	10000	
Mn	55	45	1	He	4835.930	4835.930	2.23	33482785	0.01	10000	
Fe	56	45	1	He	513.743	513.743	2.66	4287716	0.01	200000	
Co	59	45	1	He	220.344	220.344	3.16	2717604	0.01	10000	
Ni	60	45	1	He	96.356	96.356	1.60	295542	0.03	10000	
Cu	63	45	1	He	18.140	18.140	2.70	148775	0.01	10000	
Zn	66	45	1	He	239.512	239.512	1.92	398347	0.06	10000	
As	75	115	1	He	5.037	5.037	1.65	6487	0.08	10000	
Se	78	115	1	He	16.523	16.523	1.69	1842	0.90	10000	
Sr	88	45	1	He	505.623	505.623	2.08	4199599	0.01	10000	
Mo	95	103	1	He	0.159	0.159	15.14	620	0.03	2000	
Ag	107	103	1	He	0.005	0.005	46.13	80	0.01	300	
Cd	111	115	1	He	191.374	191.374	0.37	368907	0.05	4000	
Sn	118	115	1	He	0.174	0.174	24.59	3764	0.00	2000	
Sb	123	115	1	He	0.082	0.082	14.16	486	0.02	300	
Ba	137	115	1	He	15.153	15.153	2.40	34185	0.04	10000	
W	182	159	1	He	0.088	0.088	12.26	4549	0.00	2500	
Tl	205	165	1	He	0.207	0.207	4.64	6352	0.00	5000	
Pb	208	165	1	He	0.348	0.348	1.40	14635	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1873269	0.73	2317135	80.84	30	120	
Sc	45	1	He	881819	2.13	926381	95.19	30	120	
Sc	45	2	NoGas	8421846	0.20	8695701	96.85	30	120	
Rh	103	1	He	2046770	0.59	2215799	92.37	30	120	
In	115	1	He	1224121	0.67	1382146	88.57	30	120	
Tb	159	1	He	3585957	0.84	3202579	111.97	30	120	
Ho	165	1	He	3581125	0.94	3234085	110.73	30	120	
Bi	209	1	He	2088166	0.60	2214527	94.29	30	120	

Sample Report

Sample Table

Sample Name	240-49213-k-9-a
Data File Name	099SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:29:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.281	0.281	8.87	1852	0.02	10000	
B	11	45	2	NoGas	182.810	182.810	1.21	715053	0.03	300	
Na	23	45	1	He	189395.593	189395.593	2.23	326303617	0.06	500000	
Mg	24	45	1	He	59940.367	59940.367	2.48	59008029	0.10	500000	
Al	27	45	1	He	3974.232	3974.232	3.91	2145052	0.19	200000	
K	39	45	1	He	13724.711	13724.711	3.50	14490417	0.09	500000	
Ca	44	45	1	He	187592.497	187592.497	1.81	10002183	1.88	500000	
Ti	47	45	1	He	86.375	86.375	5.55	25937	0.33	2500	
V	51	45	1	He	21.485	21.485	2.84	162716	0.01	10000	
Cr	52	45	1	He	14.893	14.893	2.31	131451	0.01	10000	
Mn	55	45	1	He	1315.815	1315.815	1.79	8779625	0.01	10000	
Fe	56	45	1	He	30445.459	30445.459	1.84	244022941	0.01	200000	
Co	59	45	1	He	5.677	5.677	2.65	67765	0.01	10000	
Ni	60	45	1	He	4.764	4.764	4.60	14641	0.03	10000	
Cu	63	45	1	He	10.877	10.877	3.00	87410	0.01	10000	
Zn	66	45	1	He	34.711	34.711	2.04	57659	0.06	10000	
As	75	115	1	He	12.248	12.248	0.62	15266	0.08	10000	
Se	78	115	1	He	1.905	1.905	12.60	316	0.60	10000	
Sr	88	45	1	He	1057.244	1057.244	1.62	8459930	0.01	10000	
Mo	95	103	1	He	6.767	6.767	3.79	23977	0.03	2000	
Ag	107	103	1	He	0.044	0.044	3.21	516	0.01	300	
Cd	111	115	1	He	1.067	1.067	4.50	3243	0.03	4000	
Sn	118	115	1	He	0.786	0.786	1.41	6620	0.01	2000	
Sb	123	115	1	He	1.038	1.038	2.39	5256	0.02	300	
Ba	137	115	1	He	258.302	258.302	1.22	574957	0.04	10000	
W	182	159	1	He	0.280	0.280	8.69	5961	0.00	2500	
Tl	205	165	1	He	0.031	0.031	4.87	1167	0.00	5000	
Pb	208	165	1	He	8.146	8.146	1.02	275134	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1883148	1.04	2317135	81.27	30	120	
Sc	45	1	He	849635	2.65	926381	91.72	30	120	
Sc	45	2	NoGas	8241562	2.35	8695701	94.78	30	120	
Rh	103	1	He	2010552	2.26	2215799	90.74	30	120	
In	115	1	He	1209864	0.17	1382146	87.54	30	120	
Tb	159	1	He	3129903	1.50	3202579	97.73	30	120	
Ho	165	1	He	3139824	0.94	3234085	97.09	30	120	
Bi	209	1	He	2064479	0.89	2214527	93.22	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	100_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:33:22-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.899	0.952	315121	0.90	50	95.8	89.5	110.5	
B	11	45	2	NoGas	52.810	2.726	248181	0.31	50	105.6	89.5	110.5	
Na	23	45	1	He	25164.002	2.871	47177726	0.78	25000	100.7	89.5	110.5	
Mg	24	45	1	He	24857.268	2.889	26604916	0.48	25000	99.4	89.5	110.5	
Al	27	45	1	He	234.118	3.184	148129	0.42	250	93.6	89.5	110.5	
K	39	45	1	He	25114.191	3.528	28756446	0.52	25000	100.5	89.5	110.5	
Ca	44	45	1	He	25567.729	4.010	1483208	0.82	25000	102.3	89.5	110.5	
Ti	47	45	1	He	50.491	1.505	16480	2.35	50	101.0	89.5	110.5	
V	51	45	1	He	50.097	3.049	411736	0.38	50	100.2	89.5	110.5	
Cr	52	45	1	He	50.767	2.336	477319	1.05	50	101.5	89.5	110.5	
Mn	55	45	1	He	256.241	1.385	1861170	3.08	250	102.5	89.5	110.5	
Fe	56	45	1	He	12809.189	2.279	111615936	1.10	12500	102.5	89.5	110.5	
Co	59	45	1	He	51.388	2.218	664229	1.18	50	102.8	89.5	110.5	
Ni	60	45	1	He	51.185	2.355	164730	1.04	50	102.4	89.5	110.5	
Cu	63	45	1	He	52.159	1.805	440706	1.66	50	104.3	89.5	110.5	
Zn	66	45	1	He	50.931	1.872	90774	1.64	50	101.9	89.5	110.5	
As	75	115	1	He	51.297	1.244	68533	1.05	50	102.6	89.5	110.5	
Se	78	115	1	He	50.329	0.909	5744	0.71	50	100.7	89.5	110.5	
Sr	88	45	1	He	51.100	2.933	444935	0.80	50	102.2	89.5	110.5	
Mo	95	103	1	He	49.514	2.435	193164	2.15	50	99.0	89.5	110.5	
Ag	107	103	1	He	50.204	1.141	624184	1.45	50	100.4	89.5	110.5	
Cd	111	115	1	He	52.434	2.079	109263	1.90	50	104.9	89.5	110.5	
Sn	118	115	1	He	50.069	2.431	260630	2.30	50	100.1	89.5	110.5	
Sb	123	115	1	He	52.689	1.584	285381	1.42	50	105.4	89.5	110.5	
Ba	137	115	1	He	51.551	2.079	124459	1.91	50	103.1	89.5	110.5	
W	182	159	1	He	48.657	1.195	529322	0.06	50	97.3	89.5	110.5	
Tl	205	165	1	He	48.768	2.104	1281858	1.58	50	97.5	89.5	110.5	
Pb	208	165	1	He	49.533	1.994	1752251	1.52	50	99.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2099726	0.20	2317135	90.62	30	120	
Sc	45	1	He	923857	3.39	926381	99.73	30	120	
Sc	45	2	NoGas	8757504	2.10	8695701	100.71	30	120	
Rh	103	1	He	2216364	0.40	2215799	100.03	30	120	
In	115	1	He	1311685	0.19	1382146	94.90	30	120	
Tb	159	1	He	3274646	1.25	3202579	102.25	30	120	
Ho	165	1	He	3300314	1.62	3234085	102.05	30	120	
Bi	209	1	He	2240387	1.24	2214527	101.17	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	101_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:37:11-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.124	5.8	1052	5.2	1	
B	11	45	2	NoGas	1.939	5.7	48159	0.7	20	
Na	23	45	1	He	25.526	10.3	98878	3.2	400	
Mg	24	45	1	He	-1.296	-34.1	4427	8.7	1000	
Al	27	45	1	He	-17.706	-0.3	1017	1.3	50	
K	39	45	1	He	2.263	27.6	83766	2.2	1000	
Ca	44	45	1	He	-20.707	-5.8	783	8.8	1000	
Ti	47	45	1	He	0.079	73.9	41	46.1	20	
V	51	45	1	He	0.040	152.7	830	58.3	2	
Cr	52	45	1	He	0.034	14.4	4243	2.6	2	
Mn	55	45	1	He	-0.049	-25.7	1799	3.3	2	
Fe	56	45	1	He	15.248	31.3	142147	26.4	50	
Co	59	45	1	He	-0.004	-91.3	270	16.6	1	
Ni	60	45	1	He	-0.159	-2.2	138	9.2	2	
Cu	63	45	1	He	0.011	130.7	3926	3.5	2	
Zn	66	45	1	He	-0.854	-2.4	1073	4.5	20	
As	75	115	1	He	0.025	24.3	291	2.6	2	
Se	78	115	1	He	0.183	25.7	157	3.5	2	
Sr	88	45	1	He	0.020	8.5	661	3.4	10	
Mo	95	103	1	He	0.919	22.2	3753	22.6	2	
Ag	107	103	1	He	0.006	31.9	102	24.9	0.2	
Cd	111	115	1	He	0.093	21.7	1576	3.3	0.2	
Sn	118	115	1	He	0.227	31.2	4486	8.7	10	
Sb	123	115	1	He	0.280	20.0	1662	19.6	1	
Ba	137	115	1	He	0.027	30.8	141	15.4	5	
W	182	159	1	He	1.074	19.5	14819	16.6	10	
Tl	205	165	1	He	0.037	17.6	1387	13.1	0.5	
Pb	208	165	1	He	0.014	34.6	1670	11.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2130625	0.69	2317135	91.95	30	120	
Sc	45	1	He	889110	1.59	926381	95.98	30	120	
Sc	45	2	NoGas	8782268	0.84	8695701	101.00	30	120	
Rh	103	1	He	2285130	0.72	2215799	103.13	30	120	
In	115	1	He	1367040	0.68	1382146	98.91	30	120	
Tb	159	1	He	3269555	1.64	3202579	102.09	30	120	
Ho	165	1	He	3294647	0.92	3234085	101.87	30	120	
Bi	209	1	He	2282084	0.65	2214527	103.05	30	120	

Sample Report

Sample Table

Sample Name	240-49213-I-9-a
Data File Name	102SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:41:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.164	0.164	17.01	1137	0.01	10000	
B	11	45	2	NoGas	204.878	204.878	1.13	773721	0.03	300	
Na	23	45	1	He	205974.572	205974.572	3.18	355617549	0.06	500000	
Mg	24	45	1	He	64678.852	64678.852	3.13	63808709	0.10	500000	
Al	27	45	1	He	-3.982	-3.982	-22.52	8356	-0.05	200000	
K	39	45	1	He	14713.870	14713.870	3.93	15563115	0.09	500000	
Ca	44	45	1	He	208790.532	208790.532	3.26	11155325	1.87	500000	
Ti	47	45	1	He	0.525	0.525	27.62	173	0.30	2500	
V	51	45	1	He	2.121	2.121	8.21	16535	0.01	10000	
Cr	52	45	1	He	2.388	2.388	5.26	24278	0.01	10000	
Mn	55	45	1	He	1451.945	1451.945	2.98	9707782	0.01	10000	
Fe	56	45	1	He	20510.195	20510.195	3.05	164729709	0.01	200000	
Co	59	45	1	He	4.216	4.216	3.21	50514	0.01	10000	
Ni	60	45	1	He	2.395	2.395	1.96	7683	0.03	10000	
Cu	63	45	1	He	0.010	0.010	310.45	3749	0.00	10000	
Zn	66	45	1	He	1.805	1.805	11.53	5268	0.03	10000	
As	75	115	1	He	7.637	7.637	1.18	9558	0.08	10000	
Se	78	115	1	He	1.994	1.994	5.74	324	0.62	10000	
Sr	88	45	1	He	1160.573	1160.573	3.10	9305540	0.01	10000	
Mo	95	103	1	He	7.069	7.069	1.14	24648	0.03	2000	
Ag	107	103	1	He	0.006	0.006	27.84	86	0.01	300	
Cd	111	115	1	He	0.101	0.101	47.47	1402	0.01	4000	
Sn	118	115	1	He	0.537	0.537	3.84	5412	0.01	2000	
Sb	123	115	1	He	0.369	0.369	7.94	1905	0.02	300	
Ba	137	115	1	He	262.028	262.028	1.01	580490	0.05	10000	
W	182	159	1	He	0.277	0.277	22.49	5787	0.00	2500	
Tl	205	165	1	He	0.008	0.008	17.52	588	0.00	5000	
Pb	208	165	1	He	0.027	0.027	13.75	2013	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1834790	0.51	2317135	79.18	30	120	
Sc	45	1	He	851818	3.93	926381	91.95	30	120	
Sc	45	2	NoGas	8002052	1.15	8695701	92.02	30	120	
Rh	103	1	He	1977430	0.41	2215799	89.24	30	120	
In	115	1	He	1204117	0.27	1382146	87.12	30	120	
Tb	159	1	He	3052131	0.56	3202579	95.30	30	120	
Ho	165	1	He	3105174	0.81	3234085	96.01	30	120	
Bi	209	1	He	2008427	1.08	2214527	90.69	30	120	

Sample Report

Sample Table

Sample Name	240-49213-f-11-a
Data File Name	103SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:44:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.132	0.132	35.13	967	0.01	10000	
B	11	45	2	NoGas	184.993	184.993	0.62	711980	0.03	300	
Na	23	45	1	He	65718.589	65718.589	2.05	111742214	0.06	500000	
Mg	24	45	1	He	26220.535	26220.535	2.54	25468876	0.10	500000	
Al	27	45	1	He	-2.892	-2.892	-16.29	8810	-0.03	200000	
K	39	45	1	He	9780.539	9780.539	2.95	10210645	0.10	500000	
Ca	44	45	1	He	80165.459	80165.459	2.80	4217352	1.90	500000	
Ti	47	45	1	He	0.149	0.149	43.98	59	0.25	2500	
V	51	45	1	He	0.658	0.658	9.36	5385	0.01	10000	
Cr	52	45	1	He	1.503	1.503	5.10	16420	0.01	10000	
Mn	55	45	1	He	1006.015	1006.015	1.78	6623282	0.02	10000	
Fe	56	45	1	He	2045.796	2045.796	1.89	16189124	0.01	200000	
Co	59	45	1	He	0.632	0.632	5.09	7720	0.01	10000	
Ni	60	45	1	He	0.718	0.718	6.68	2681	0.03	10000	
Cu	63	45	1	He	0.094	0.094	41.69	4321	0.00	10000	
Zn	66	45	1	He	11.137	11.137	4.49	19843	0.06	10000	
As	75	115	1	He	1.922	1.922	3.65	2612	0.07	10000	
Se	78	115	1	He	0.398	0.398	34.22	163	0.24	10000	
Sr	88	45	1	He	351.664	351.664	2.15	2776326	0.01	10000	
Mo	95	103	1	He	1.289	1.289	3.59	4702	0.03	2000	
Ag	107	103	1	He	0.003	0.003	57.56	51	0.01	300	
Cd	111	115	1	He	0.090	0.090	8.21	1403	0.01	4000	
Sn	118	115	1	He	81.274	81.274	1.69	392324	0.02	2000	
Sb	123	115	1	He	0.276	0.276	8.60	1463	0.02	300	
Ba	137	115	1	He	70.404	70.404	1.25	158340	0.04	10000	
W	182	159	1	He	0.086	0.086	9.54	3934	0.00	2500	
Tl	205	165	1	He	0.000	0.000	1890.28	398	0.00	5000	
Pb	208	165	1	He	0.032	0.032	4.42	2202	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1871938	1.29	2317135	80.79	30	120	
Sc	45	1	He	838254	2.78	926381	90.49	30	120	
Sc	45	2	NoGas	8112989	0.69	8695701	93.30	30	120	
Rh	103	1	He	2052575	2.15	2215799	92.63	30	120	
In	115	1	He	1222056	0.42	1382146	88.42	30	120	
Tb	159	1	He	3118344	1.33	3202579	97.37	30	120	
Ho	165	1	He	3120146	0.74	3234085	96.48	30	120	
Bi	209	1	He	2098133	1.23	2214527	94.74	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-1-a
Data File Name	104SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:48:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.134	0.134	17.17	1011	0.01	10000	
B	11	45	2	NoGas	49.095	49.095	2.11	222280	0.02	300	
Na	23	45	1	He	50757.486	50757.486	3.60	89494665	0.06	500000	
Mg	24	45	1	He	9058.055	9058.055	2.69	9128302	0.10	500000	
Al	27	45	1	He	-12.795	-12.795	-0.65	3695	-0.35	200000	
K	39	45	1	He	1779.474	1779.474	2.87	1991739	0.09	500000	
Ca	44	45	1	He	55134.960	55134.960	1.75	3009402	1.83	500000	
Ti	47	45	1	He	0.130	0.130	31.39	56	0.23	2500	
V	51	45	1	He	0.309	0.309	20.92	2888	0.01	10000	
Cr	52	45	1	He	1.183	1.183	6.50	14219	0.01	10000	
Mn	55	45	1	He	0.273	0.273	5.46	3957	0.01	10000	
Fe	56	45	1	He	3.810	3.810	7.64	45618	0.01	200000	
Co	59	45	1	He	0.102	0.102	5.05	1560	0.01	10000	
Ni	60	45	1	He	0.093	0.093	33.05	893	0.01	10000	
Cu	63	45	1	He	0.140	0.140	18.84	4846	0.00	10000	
Zn	66	45	1	He	2.693	2.693	4.46	6829	0.04	10000	
As	75	115	1	He	0.673	0.673	4.06	1102	0.06	10000	
Se	78	115	1	He	1.203	1.203	16.98	256	0.47	10000	
Sr	88	45	1	He	86.044	86.044	2.94	704781	0.01	10000	
Mo	95	103	1	He	87.562	87.562	3.02	324117	0.03	2000	
Ag	107	103	1	He	0.002	0.002	18.07	49	0.00	300	
Cd	111	115	1	He	0.116	0.116	14.67	1506	0.01	4000	
Sn	118	115	1	He	1.001	1.001	32.19	7999	0.01	2000	
Sb	123	115	1	He	0.089	0.089	14.90	541	0.02	300	
Ba	137	115	1	He	61.454	61.454	0.98	143294	0.04	10000	
W	182	159	1	He	15.296	15.296	2.15	162784	0.01	2500	
Tl	205	165	1	He	-0.004	-0.004	-52.09	296	0.00	5000	
Pb	208	165	1	He	0.020	0.020	21.68	1827	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1927645	0.61	2317135	83.19	30	120	
Sc	45	1	He	869368	2.71	926381	93.85	30	120	
Sc	45	2	NoGas	8333922	2.16	8695701	95.84	30	120	
Rh	103	1	He	2104028	2.33	2215799	94.96	30	120	
In	115	1	He	1266966	0.65	1382146	91.67	30	120	
Tb	159	1	He	3161587	1.25	3202579	98.72	30	120	
Ho	165	1	He	3197048	0.51	3234085	98.85	30	120	
Bi	209	1	He	2155378	1.70	2214527	97.33	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-2-a
Data File Name	105SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:52:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.101	0.101	18.56	848	0.01	10000	
B	11	45	2	NoGas	34.025	34.025	1.83	170887	0.02	300	
Na	23	45	1	He	19363.442	19363.442	2.33	35003042	0.06	500000	
Mg	24	45	1	He	7400.617	7400.617	2.13	7639097	0.10	500000	
Al	27	45	1	He	-12.288	-12.288	-4.45	4065	-0.30	200000	
K	39	45	1	He	1646.786	1646.786	2.13	1893846	0.09	500000	
Ca	44	45	1	He	45394.090	45394.090	1.16	2537820	1.79	500000	
Ti	47	45	1	He	0.087	0.087	43.23	43	0.20	2500	
V	51	45	1	He	0.311	0.311	6.39	2978	0.01	10000	
Cr	52	45	1	He	0.926	0.926	6.27	12254	0.01	10000	
Mn	55	45	1	He	0.421	0.421	6.53	5090	0.01	10000	
Fe	56	45	1	He	2.377	2.377	0.85	34632	0.01	200000	
Co	59	45	1	He	0.099	0.099	3.78	1563	0.01	10000	
Ni	60	45	1	He	0.104	0.104	41.47	948	0.01	10000	
Cu	63	45	1	He	0.367	0.367	5.78	6800	0.01	10000	
Zn	66	45	1	He	1.763	1.763	4.75	5440	0.03	10000	
As	75	115	1	He	0.554	0.554	2.43	974	0.06	10000	
Se	78	115	1	He	0.175	0.175	72.15	149	0.12	10000	
Sr	88	45	1	He	93.238	93.238	1.60	782188	0.01	10000	
Mo	95	103	1	He	25.592	25.592	0.53	98133	0.03	2000	
Ag	107	103	1	He	0.002	0.002	60.43	49	0.00	300	
Cd	111	115	1	He	0.075	0.075	44.68	1461	0.01	4000	
Sn	118	115	1	He	0.340	0.340	38.28	4838	0.01	2000	
Sb	123	115	1	He	0.518	0.518	0.77	2856	0.02	300	
Ba	137	115	1	He	69.814	69.814	1.15	167005	0.04	10000	
W	182	159	1	He	424.568	424.568	0.45	4525228	0.01	2500	
Tl	205	165	1	He	-0.007	-0.007	-25.94	241	0.00	5000	
Pb	208	165	1	He	0.017	0.017	12.07	1737	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2017137	1.19	2317135	87.05	30	120	
Sc	45	1	He	890222	2.31	926381	96.10	30	120	
Sc	45	2	NoGas	8585911	1.27	8695701	98.74	30	120	
Rh	103	1	He	2177829	0.83	2215799	98.29	30	120	
In	115	1	He	1299860	0.55	1382146	94.05	30	120	
Tb	159	1	He	3225416	0.81	3202579	100.71	30	120	
Ho	165	1	He	3229561	0.61	3234085	99.86	30	120	
Bi	209	1	He	2212119	0.64	2214527	99.89	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-3-a
Data File Name	106SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T15:56:19-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.089	0.089	4.21	767	0.01	10000	
B	11	45	2	NoGas	40.254	40.254	1.34	193276	0.02	300	
Na	23	45	1	He	19077.769	19077.769	3.82	33995376	0.06	500000	
Mg	24	45	1	He	9662.075	9662.075	3.27	9830423	0.10	500000	
Al	27	45	1	He	-7.247	-7.247	-11.86	6802	-0.11	200000	
K	39	45	1	He	1446.926	1446.926	2.09	1650618	0.09	500000	
Ca	44	45	1	He	51392.660	51392.660	2.74	2832052	1.81	500000	
Ti	47	45	1	He	0.075	0.075	43.15	39	0.19	2500	
V	51	45	1	He	0.390	0.390	6.15	3549	0.01	10000	
Cr	52	45	1	He	1.439	1.439	6.22	16621	0.01	10000	
Mn	55	45	1	He	1.618	1.618	2.88	13266	0.01	10000	
Fe	56	45	1	He	2.647	2.647	3.71	36376	0.01	200000	
Co	59	45	1	He	0.117	0.117	8.34	1753	0.01	10000	
Ni	60	45	1	He	0.468	0.468	2.98	2045	0.02	10000	
Cu	63	45	1	He	2.943	2.943	4.24	27192	0.01	10000	
Zn	66	45	1	He	3.817	3.817	8.48	8737	0.04	10000	
As	75	115	1	He	0.653	0.653	2.84	1097	0.06	10000	
Se	78	115	1	He	0.349	0.349	36.71	167	0.21	10000	
Sr	88	45	1	He	164.295	164.295	3.35	1358249	0.01	10000	
Mo	95	103	1	He	48.050	48.050	1.71	183347	0.03	2000	
Ag	107	103	1	He	0.002	0.002	111.77	47	0.00	300	
Cd	111	115	1	He	0.111	0.111	33.10	1523	0.01	4000	
Sn	118	115	1	He	0.418	0.418	13.64	5201	0.01	2000	
Sb	123	115	1	He	2.313	2.313	3.56	12398	0.02	300	
Ba	137	115	1	He	82.652	82.652	1.82	196244	0.04	10000	
W	182	159	1	He	421.314	421.314	1.39	4457726	0.01	2500	
Tl	205	165	1	He	-0.003	-0.003	-74.08	342	0.00	5000	
Pb	208	165	1	He	0.030	0.030	19.70	2186	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1987448	1.12	2317135	85.77	30	120	
Sc	45	1	He	877924	3.21	926381	94.77	30	120	
Sc	45	2	NoGas	8512127	1.10	8695701	97.89	30	120	
Rh	103	1	He	2168149	1.78	2215799	97.85	30	120	
In	115	1	He	1290290	0.65	1382146	93.35	30	120	
Tb	159	1	He	3202139	1.27	3202579	99.99	30	120	
Ho	165	1	He	3242925	1.69	3234085	100.27	30	120	
Bi	209	1	He	2208253	0.87	2214527	99.72	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-4-a
Data File Name	107SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:00:10-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.080	0.080	2.68	704	0.01	10000	
B	11	45	2	NoGas	31.654	31.654	2.45	160632	0.02	300	
Na	23	45	1	He	19804.174	19804.174	3.48	35365081	0.06	500000	
Mg	24	45	1	He	7605.358	7605.358	2.77	7756623	0.10	500000	
Al	27	45	1	He	-11.006	-11.006	-1.63	4736	-0.23	200000	
K	39	45	1	He	1637.231	1637.231	2.70	1860866	0.09	500000	
Ca	44	45	1	He	45817.366	45817.366	2.80	2530408	1.81	500000	
Ti	47	45	1	He	0.065	0.065	88.52	36	0.18	2500	
V	51	45	1	He	0.319	0.319	25.62	2992	0.01	10000	
Cr	52	45	1	He	1.346	1.346	6.54	15834	0.01	10000	
Mn	55	45	1	He	0.794	0.794	2.38	7604	0.01	10000	
Fe	56	45	1	He	5.127	5.127	5.48	57005	0.01	200000	
Co	59	45	1	He	0.103	0.103	7.62	1590	0.01	10000	
Ni	60	45	1	He	0.134	0.134	10.90	1031	0.01	10000	
Cu	63	45	1	He	0.352	0.352	17.13	6592	0.01	10000	
Zn	66	45	1	He	2.263	2.263	4.87	6206	0.04	10000	
As	75	115	1	He	0.701	0.701	3.17	1145	0.06	10000	
Se	78	115	1	He	0.142	0.142	78.49	142	0.10	10000	
Sr	88	45	1	He	95.372	95.372	2.88	790436	0.01	10000	
Mo	95	103	1	He	26.446	26.446	1.06	99404	0.03	2000	
Ag	107	103	1	He	0.001	0.001	78.66	30	0.00	300	
Cd	111	115	1	He	0.074	0.074	14.24	1431	0.01	4000	
Sn	118	115	1	He	0.319	0.319	25.10	4642	0.01	2000	
Sb	123	115	1	He	0.591	0.591	6.02	3187	0.02	300	
Ba	137	115	1	He	71.085	71.085	1.19	166707	0.04	10000	
W	182	159	1	He	448.148	448.148	0.87	4734594	0.01	2500	
Tl	205	165	1	He	-0.004	-0.004	-63.82	314	0.00	5000	
Pb	208	165	1	He	0.034	0.034	2.98	2311	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1984425	1.42	2317135	85.64	30	120	
Sc	45	1	He	879879	3.68	926381	94.98	30	120	
Sc	45	2	NoGas	8527037	1.01	8695701	98.06	30	120	
Rh	103	1	He	2134848	0.40	2215799	96.35	30	120	
In	115	1	He	1274360	0.62	1382146	92.20	30	120	
Tb	159	1	He	3197128	0.39	3202579	99.83	30	120	
Ho	165	1	He	3220609	0.64	3234085	99.58	30	120	
Bi	209	1	He	2205889	0.40	2214527	99.61	30	120	

Sample Report

Sample Table

Sample Name	240-49224-f-1-a
Data File Name	108SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:04:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.108	0.108	26.00	822	0.01	10000	
B	11	45	2	NoGas	354.520	354.520	0.64	1337364	0.03	300	>LDR
Na	23	45	1	He	107114.868	107114.868	1.32	182868085	0.06	500000	
Mg	24	45	1	He	55614.144	55614.144	1.57	54244187	0.10	500000	
Al	27	45	1	He	34.990	34.990	2.44	29013	0.12	200000	
K	39	45	1	He	15185.318	15185.318	2.49	15877719	0.10	500000	
Ca	44	45	1	He	148401.722	148401.722	0.84	7840132	1.89	500000	
Ti	47	45	1	He	4.004	4.004	10.79	1206	0.33	2500	
V	51	45	1	He	0.770	0.770	11.40	6242	0.01	10000	
Cr	52	45	1	He	1.453	1.453	2.51	16071	0.01	10000	
Mn	55	45	1	He	44.626	44.626	1.50	296940	0.02	10000	
Fe	56	45	1	He	7819.120	7819.120	1.56	62094306	0.01	200000	
Co	59	45	1	He	0.562	0.562	0.16	6930	0.01	10000	
Ni	60	45	1	He	4.886	4.886	3.32	14865	0.03	10000	
Cu	63	45	1	He	1.481	1.481	3.16	14931	0.01	10000	
Zn	66	45	1	He	37.547	37.547	2.17	61600	0.06	10000	
As	75	115	1	He	1.653	1.653	4.08	2248	0.07	10000	
Se	78	115	1	He	0.197	0.197	13.10	140	0.14	10000	
Sr	88	45	1	He	1006.130	1006.130	2.78	7974380	0.01	10000	
Mo	95	103	1	He	4.272	4.272	1.62	15027	0.03	2000	
Ag	107	103	1	He	0.003	0.003	85.33	57	0.01	300	
Cd	111	115	1	He	0.064	0.064	65.15	1335	0.00	4000	
Sn	118	115	1	He	0.465	0.465	9.64	5079	0.01	2000	
Sb	123	115	1	He	0.071	0.071	8.05	428	0.02	300	
Ba	137	115	1	He	972.739	972.739	1.22	2157642	0.05	10000	
W	182	159	1	He	6.810	6.810	17.35	73462	0.01	2500	
Tl	205	165	1	He	-0.008	-0.008	-7.33	192	0.00	5000	
Pb	208	165	1	He	0.045	0.045	6.63	2636	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1851137	0.93	2317135	79.89	30	120	
Sc	45	1	He	841615	1.88	926381	90.85	30	120	
Sc	45	2	NoGas	8157314	0.94	8695701	93.81	30	120	
Rh	103	1	He	1992967	1.75	2215799	89.94	30	120	
In	115	1	He	1205841	1.43	1382146	87.24	30	120	
Tb	159	1	He	3134178	1.19	3202579	97.86	30	120	
Ho	165	1	He	3126081	0.72	3234085	96.66	30	120	
Bi	209	1	He	2044604	1.12	2214527	92.33	30	120	

Sample Report

Sample Table

Sample Name	240-49224-f-2-a
Data File Name	109SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:07:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.063	0.063	12.35	552	0.01	10000	
B	11	45	2	NoGas	485.521	485.521	0.80	1799627	0.03	300	>LDR
Na	23	45	1	He	141139.712	141139.712	2.90	238396583	0.06	500000	
Mg	24	45	1	He	56793.712	56793.712	2.57	54816040	0.10	500000	
Al	27	45	1	He	-6.651	-6.651	-9.54	6774	-0.10	200000	
K	39	45	1	He	20448.855	20448.855	1.59	21139742	0.10	500000	
Ca	44	45	1	He	194871.819	194871.819	1.34	10189162	1.91	500000	
Ti	47	45	1	He	0.461	0.461	23.23	150	0.31	2500	
V	51	45	1	He	0.744	0.744	2.87	5997	0.01	10000	
Cr	52	45	1	He	1.506	1.506	8.24	16332	0.01	10000	
Mn	55	45	1	He	461.722	461.722	2.47	3021507	0.02	10000	
Fe	56	45	1	He	7731.671	7731.671	2.38	60765366	0.01	200000	
Co	59	45	1	He	1.660	1.660	2.06	19647	0.01	10000	
Ni	60	45	1	He	5.228	5.228	2.80	15700	0.03	10000	
Cu	63	45	1	He	2.463	2.463	2.69	22193	0.01	10000	
Zn	66	45	1	He	10.742	10.742	2.97	19109	0.06	10000	
As	75	115	1	He	9.173	9.173	1.20	11275	0.08	10000	
Se	78	115	1	He	0.383	0.383	18.53	157	0.24	10000	
Sr	88	45	1	He	513.664	513.664	2.38	4029702	0.01	10000	
Mo	95	103	1	He	5.599	5.599	2.14	19653	0.03	2000	
Ag	107	103	1	He	0.003	0.003	1.07	50	0.01	300	
Cd	111	115	1	He	0.169	0.169	20.56	1509	0.01	4000	
Sn	118	115	1	He	0.527	0.527	18.35	5294	0.01	2000	
Sb	123	115	1	He	0.103	0.103	8.67	576	0.02	300	
Ba	137	115	1	He	384.182	384.182	1.48	839071	0.05	10000	
W	182	159	1	He	1.404	1.404	3.74	17284	0.01	2500	
Tl	205	165	1	He	0.000	0.000	290.43	404	0.00	5000	
Pb	208	165	1	He	0.049	0.049	3.55	2746	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1828623	0.50	2317135	78.92	30	120	
Sc	45	1	He	833117	3.21	926381	89.93	30	120	
Sc	45	2	NoGas	8076269	0.25	8695701	92.88	30	120	
Rh	103	1	He	1990222	0.62	2215799	89.82	30	120	
In	115	1	He	1187207	0.54	1382146	85.90	30	120	
Tb	159	1	He	3077998	0.20	3202579	96.11	30	120	
Ho	165	1	He	3108000	0.53	3234085	96.10	30	120	
Bi	209	1	He	2012185	1.93	2214527	90.86	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176149/1-a
Data File Name	110_Blk.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:11:37-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.064	27.6	589	18.0	1	
B	11	45	2	NoGas	12.304	2.5	84137	1.7	20	
Na	23	45	1	He	50.941	9.0	140033	6.9	400	
Mg	24	45	1	He	0.871	105.7	6453	15.9	1000	
Al	27	45	1	He	21.412	1.9	22257	1.6	50	
K	39	45	1	He	4.252	33.4	83101	1.7	1000	
Ca	44	45	1	He	-4.873	-23.5	1613	5.3	1000	
Ti	47	45	1	He	0.026	76.3	23	24.7	20	
V	51	45	1	He	0.160	43.2	1717	29.6	2	
Cr	52	45	1	He	1.212	6.3	14316	3.3	2	
Mn	55	45	1	He	-0.028	-52.3	1880	4.4	2	
Fe	56	45	1	He	4.512	17.7	50828	14.4	50	
Co	59	45	1	He	-0.003	-75.8	280	7.8	1	
Ni	60	45	1	He	-0.121	-5.4	244	6.7	2	
Cu	63	45	1	He	-0.008	-47.3	3646	2.5	2	
Zn	66	45	1	He	3.699	2.3	8375	0.4	20	
As	75	115	1	He	0.289	9.2	619	5.4	2	
Se	78	115	1	He	0.061	195.8	135	10.0	2	
Sr	88	45	1	He	0.259	9.7	2578	9.3	10	
Mo	95	103	1	He	0.077	2.9	350	3.3	2	
Ag	107	103	1	He	0.001	30.5	41	12.4	0.2	
Cd	111	115	1	He	0.053	23.2	1403	1.9	0.2	
Sn	118	115	1	He	0.167	17.8	3923	3.6	10	
Sb	123	115	1	He	0.027	9.6	221	6.1	1	
Ba	137	115	1	He	0.143	26.1	409	21.7	5	
W	182	159	1	He	0.618	8.6	9644	6.1	10	
Tl	205	165	1	He	-0.006	-37.7	253	22.4	0.5	
Pb	208	165	1	He	0.019	5.7	1791	2.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1924376	1.28	2317135	83.05	30	120	
Sc	45	1	He	859738	1.66	926381	92.81	30	120	
Sc	45	2	NoGas	8295184	0.38	8695701	95.39	30	120	
Rh	103	1	He	2212016	0.98	2215799	99.83	30	120	
In	115	1	He	1288297	0.54	1382146	93.21	30	120	
Tb	159	1	He	3194606	0.75	3202579	99.75	30	120	
Ho	165	1	He	3189532	0.46	3234085	98.62	30	120	
Bi	209	1	He	2264741	1.22	2214527	102.27	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176149/2-a
Data File Name	111_LCS.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:15:29-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1047.117	1047.117	1.107	6119928	1.24	1000	104.7	79.5	120.5	
B	11	2	NoGas	118.826	118.826	0.631	462381	1.16	100	118.8	79.5	120.5	
Na	23	1	He	10461.105	10461.105	1.177	17646251	1.29	10000	104.6	79.5	120.5	
Mg	24	1	He	10315.124	10315.124	0.427	9921596	1.90	10000	103.2	79.5	120.5	
Al	27	1	He	10220.849	10220.849	1.695	5371995	0.87	10000	102.2	79.5	120.5	
K	39	1	He	10301.838	10301.838	2.000	10640833	0.59	10000	103.0	79.5	120.5	
Ca	44	1	He	9189.323	9189.323	2.273	480048	0.03	10000	91.9	79.5	120.5	
Ti	47	1	He	100.896	100.896	1.237	29556	1.44	100	100.9	79.5	120.5	
V	51	1	He	1067.103	1067.103	2.169	7867412	0.23	1000	106.7	79.5	120.5	
Cr	52	1	He	1071.248	1071.248	1.774	8971539	0.48	1000	107.1	79.5	120.5	
Mn	55	1	He	1031.611	1031.611	3.312	6719043	1.18	1000	103.2	79.5	120.5	
Fe	56	1	He	10732.645	10732.645	2.591	83982886	0.99	10000	107.3	79.5	120.5	
Co	59	1	He	1099.332	1099.332	1.783	12754927	0.51	1000	109.9	79.5	120.5	
Ni	60	1	He	1130.043	1130.043	3.149	3253306	1.33	1000	113.0	79.5	120.5	
Cu	63	1	He	1124.865	1124.865	2.218	8460536	0.90	1000	112.5	79.5	120.5	
Zn	66	1	He	1143.902	1143.902	0.862	1781053	1.53	1000	114.4	79.5	120.5	
As	75	1	He	1027.122	1027.122	0.950	1237652	0.11	1000	102.7	79.5	120.5	
Se	78	1	He	1026.675	1026.675	1.087	103743	0.18	1000	102.7	79.5	120.5	
Sr	88	1	He	1088.113	1088.113	2.063	8500084	0.38	1000	108.8	79.5	120.5	
Mo	95	1	He	106.365	106.365	0.991	396943	0.83	100	106.4	79.5	120.5	
Ag	107	1	He	101.745	101.745	1.363	1210111	0.34	100	101.7	79.5	120.5	
Cd	111	1	He	1188.787	1188.787	1.061	2216105	1.25	1000	118.9	79.5	120.5	
Sn	118	1	He	1180.383	1180.383	1.435	5496411	0.38	1000	118.0	79.5	120.5	
Sb	123	1	He	110.310	110.310	1.626	540611	0.57	100	110.3	79.5	120.5	
Ba	137	1	He	1180.122	1180.122	1.116	2577192	1.11	1000	118.0	79.5	120.5	
W	182	1	He	103.325	103.325	1.127	1072228	1.13	100	103.3	79.5	120.5	
Tl	205	1	He	260.393	260.393	2.356	6596896	2.02	250	104.2	79.5	120.5	
Pb	208	1	He	1061.920	1061.920	1.341	36193517	0.63	1000	106.2	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1866623	0.75	2317135	80.56	30	120	
Sc	45	1	He	829481	2.28	926381	89.54	30	120	
Sc	45	2	NoGas	7969652	1.34	8695701	91.65	30	120	
Rh	103	1	He	2120610	1.66	2215799	95.70	30	120	
In	115	1	He	1187138	1.07	1382146	85.89	30	120	
Tb	159	1	He	3133479	0.15	3202579	97.84	30	120	
Ho	165	1	He	3181584	0.97	3234085	98.38	30	120	
Bi	209	1	He	2148089	0.68	2214527	97.00	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	112_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:19:04-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.909	0.960	311165	1.34	50	97.8	89.5	110.5	
B	11	45	2	NoGas	51.431	1.234	238026	1.05	50	102.9	89.5	110.5	
Na	23	45	1	He	24874.220	2.463	45577329	0.55	25000	99.5	89.5	110.5	
Mg	24	45	1	He	24858.343	3.345	25998434	0.40	25000	99.4	89.5	110.5	
Al	27	45	1	He	233.681	2.281	144534	0.89	250	93.5	89.5	110.5	
K	39	45	1	He	25138.719	2.928	28133592	0.62	25000	100.6	89.5	110.5	
Ca	44	45	1	He	25713.364	4.474	1457630	1.66	25000	102.9	89.5	110.5	
Ti	47	45	1	He	50.102	2.300	15978	1.71	50	100.2	89.5	110.5	
V	51	45	1	He	50.597	2.562	406425	0.86	50	101.2	89.5	110.5	
Cr	52	45	1	He	50.736	2.069	466226	1.72	50	101.5	89.5	110.5	
Mn	55	45	1	He	258.180	3.345	1831615	1.62	250	103.3	89.5	110.5	
Fe	56	45	1	He	12814.610	2.214	109125420	1.15	12500	102.5	89.5	110.5	
Co	59	45	1	He	50.888	2.763	642738	0.76	50	101.8	89.5	110.5	
Ni	60	45	1	He	51.004	2.689	160414	1.44	50	102.0	89.5	110.5	
Cu	63	45	1	He	51.977	2.918	429076	0.26	50	104.0	89.5	110.5	
Zn	66	45	1	He	51.082	3.076	88942	0.58	50	102.2	89.5	110.5	
As	75	115	1	He	51.065	0.844	67477	0.75	50	102.1	89.5	110.5	
Se	78	115	1	He	50.675	0.750	5719	0.82	50	101.4	89.5	110.5	
Sr	88	45	1	He	50.935	1.930	433492	1.06	50	101.9	89.5	110.5	
Mo	95	103	1	He	49.915	2.526	190692	1.70	50	99.8	89.5	110.5	
Ag	107	103	1	He	49.833	0.197	606778	0.99	50	99.7	89.5	110.5	
Cd	111	115	1	He	51.484	1.948	106129	1.82	50	103.0	89.5	110.5	
Sn	118	115	1	He	50.576	1.734	260347	1.59	50	101.2	89.5	110.5	
Sb	123	115	1	He	53.184	1.004	284903	0.89	50	106.4	89.5	110.5	
Ba	137	115	1	He	51.490	1.465	122949	1.39	50	103.0	89.5	110.5	
W	182	159	1	He	49.807	1.845	529141	0.91	50	99.6	89.5	110.5	
Tl	205	165	1	He	48.537	2.891	1258333	1.75	50	97.1	89.5	110.5	
Pb	208	165	1	He	49.191	2.444	1716381	1.38	50	98.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2030824	2.17	2317135	87.64	30	120	
Sc	45	1	He	902772	3.00	926381	97.45	30	120	
Sc	45	2	NoGas	8584210	0.27	8695701	98.72	30	120	
Rh	103	1	He	2170627	0.98	2215799	97.96	30	120	
In	115	1	He	1297290	0.12	1382146	93.86	30	120	
Tb	159	1	He	3198574	1.29	3202579	99.87	30	120	
Ho	165	1	He	3255537	1.75	3234085	100.66	30	120	
Bi	209	1	He	2218514	1.25	2214527	100.18	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	113_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:22:54-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.214	11.1	1622	10.9	1	
B	11	45	2	NoGas	2.719	4.6	50607	0.1	20	
Na	23	45	1	He	12.912	7.6	74432	0.8	400	
Mg	24	45	1	He	-2.488	-26.8	3126	20.5	1000	
Al	27	45	1	He	-17.708	-0.1	992	0.7	50	
K	39	45	1	He	3.048	41.9	82696	1.4	1000	
Ca	44	45	1	He	-23.622	-3.4	606	5.7	1000	
Ti	47	45	1	He	0.068	70.9	37	41.7	20	
V	51	45	1	He	0.010	468.9	574	60.8	2	
Cr	52	45	1	He	0.061	15.1	4386	3.4	2	
Mn	55	45	1	He	-0.166	-12.1	962	12.9	2	
Fe	56	45	1	He	13.414	33.9	123976	28.9	50	
Co	59	45	1	He	0.025	12.5	616	4.5	1	
Ni	60	45	1	He	-0.142	-4.9	186	12.0	2	
Cu	63	45	1	He	-0.054	-24.8	3319	1.9	2	
Zn	66	45	1	He	-0.749	-5.8	1220	4.3	20	
As	75	115	1	He	0.037	24.6	303	4.1	2	
Se	78	115	1	He	0.105	2.8	146	0.2	2	
Sr	88	45	1	He	0.017	19.3	623	3.3	10	
Mo	95	103	1	He	0.931	21.4	3750	21.4	2	
Ag	107	103	1	He	0.007	28.0	109	22.1	0.2	
Cd	111	115	1	He	0.112	9.3	1590	1.3	0.2	
Sn	118	115	1	He	0.514	21.1	5931	9.8	10	
Sb	123	115	1	He	0.340	12.4	1972	12.0	1	
Ba	137	115	1	He	0.079	11.3	269	8.3	5	
W	182	159	1	He	1.324	13.6	17277	10.8	10	
Tl	205	165	1	He	0.072	16.7	2278	13.9	0.5	
Pb	208	165	1	He	0.038	15.6	2495	8.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2088163	1.30	2317135	90.12	30	120	
Sc	45	1	He	868924	1.58	926381	93.80	30	120	
Sc	45	2	NoGas	8674251	0.88	8695701	99.75	30	120	
Rh	103	1	He	2255314	0.28	2215799	101.78	30	120	
In	115	1	He	1346360	0.33	1382146	97.41	30	120	
Tb	159	1	He	3229188	0.88	3202579	100.83	30	120	
Ho	165	1	He	3258619	0.51	3234085	100.76	30	120	
Bi	209	1	He	2270564	0.76	2214527	102.53	30	120	

Sample Report

Sample Table

Sample Name	240-49267-j-1-a
Data File Name	114SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:26:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.214	0.214	10.20	1433	0.01	10000	
B	11	45	2	NoGas	241.496	241.496	3.47	902657	0.03	300	
Na	23	45	1	He	5100.314	5100.314	4.02	8862906	0.06	500000	
Mg	24	45	1	He	21646.951	21646.951	4.34	21376189	0.10	500000	
Al	27	45	1	He	196.324	196.324	5.38	116276	0.17	200000	
K	39	45	1	He	6521.697	6521.697	5.69	6945177	0.09	500000	
Ca	44	45	1	He	165506.655	165506.655	3.21	8852705	1.87	500000	
Ti	47	45	1	He	6.301	6.301	21.34	1906	0.33	2500	
V	51	45	1	He	2.092	2.092	3.14	16343	0.01	10000	
Cr	52	45	1	He	4.248	4.248	4.89	40300	0.01	10000	
Mn	55	45	1	He	44.954	44.954	2.70	302922	0.01	10000	
Fe	56	45	1	He	6785.643	6785.643	4.49	54546335	0.01	200000	
Co	59	45	1	He	0.463	0.463	4.06	5828	0.01	10000	
Ni	60	45	1	He	37.093	37.093	3.46	110317	0.03	10000	
Cu	63	45	1	He	47.281	47.281	3.75	368872	0.01	10000	
Zn	66	45	1	He	983.903	983.903	3.30	1574146	0.06	10000	
As	75	115	1	He	1.129	1.129	5.34	1640	0.07	10000	
Se	78	115	1	He	0.639	0.639	14.53	189	0.34	10000	
Sr	88	45	1	He	638.473	638.473	4.22	5123645	0.01	10000	
Mo	95	103	1	He	3.409	3.409	5.25	12369	0.03	2000	
Ag	107	103	1	He	0.439	0.439	3.07	5081	0.01	300	
Cd	111	115	1	He	9.608	9.608	0.37	19780	0.05	4000	
Sn	118	115	1	He	1.175	1.175	15.89	8606	0.01	2000	
Sb	123	115	1	He	3.985	3.985	0.66	20302	0.02	300	
Ba	137	115	1	He	18.477	18.477	1.51	41863	0.04	10000	
W	182	159	1	He	2.756	2.756	1.88	31506	0.01	2500	
Tl	205	165	1	He	0.049	0.049	7.82	1638	0.00	5000	
Pb	208	165	1	He	6.679	6.679	1.26	227863	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1849715	1.37	2317135	79.83	30	120	
Sc	45	1	He	852867	4.49	926381	92.06	30	120	
Sc	45	2	NoGas	7977485	0.41	8695701	91.74	30	120	
Rh	103	1	He	2053521	0.39	2215799	92.68	30	120	
In	115	1	He	1229699	0.76	1382146	88.97	30	120	
Tb	159	1	He	3126587	1.90	3202579	97.63	30	120	
Ho	165	1	He	3168748	0.18	3234085	97.98	30	120	
Bi	209	1	He	2151206	0.69	2214527	97.14	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49267-j-1-a@5
Data File Name	115SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:30:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.139	0.139	20.01	1074	0.01	10000	
B	11	45	2	NoGas	47.552	47.552	1.45	219547	0.02	300	
Na	23	45	1	He	1133.416	1133.416	1.25	2054838	0.06	500000	
Mg	24	45	1	He	4631.283	4631.283	0.40	4682237	0.10	500000	
Al	27	45	1	He	51.160	51.160	3.46	38953	0.13	200000	
K	39	45	1	He	1440.781	1440.781	1.66	1632198	0.09	500000	
Ca	44	45	1	He	35871.956	35871.956	0.90	1963311	1.83	500000	
Ti	47	45	1	He	1.023	1.023	7.82	330	0.31	2500	
V	51	45	1	He	0.480	0.480	10.73	4222	0.01	10000	
Cr	52	45	1	He	0.943	0.943	4.01	12153	0.01	10000	
Mn	55	45	1	He	40.094	40.094	0.58	276435	0.01	10000	
Fe	56	45	1	He	1432.179	1432.179	0.42	11787911	0.01	200000	
Co	59	45	1	He	0.096	0.096	7.97	1487	0.01	10000	
Ni	60	45	1	He	8.183	8.183	1.03	25364	0.03	10000	
Cu	63	45	1	He	10.090	10.090	1.01	83468	0.01	10000	
Zn	66	45	1	He	202.092	202.092	0.66	332534	0.06	10000	
As	75	115	1	He	0.197	0.197	2.79	509	0.04	10000	
Se	78	115	1	He	0.093	0.093	80.56	141	0.07	10000	
Sr	88	45	1	He	125.607	125.607	0.77	1031386	0.01	10000	
Mo	95	103	1	He	0.705	0.705	0.69	2761	0.03	2000	
Ag	107	103	1	He	0.084	0.084	12.84	1047	0.01	300	
Cd	111	115	1	He	1.967	1.967	0.97	5387	0.04	4000	
Sn	118	115	1	He	0.139	0.139	36.92	3864	0.00	2000	
Sb	123	115	1	He	0.814	0.814	3.12	4502	0.02	300	
Ba	137	115	1	He	3.784	3.784	2.80	9232	0.04	10000	
W	182	159	1	He	0.687	0.687	0.73	10441	0.01	2500	
Tl	205	165	1	He	0.012	0.012	23.04	733	0.00	5000	
Pb	208	165	1	He	1.410	1.410	3.40	50320	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1987002	1.95	2317135	85.75	30	120	
Sc	45	1	He	871232	1.01	926381	94.05	30	120	
Sc	45	2	NoGas	8449720	1.86	8695701	97.17	30	120	
Rh	103	1	He	2185667	1.11	2215799	98.64	30	120	
In	115	1	He	1316105	0.84	1382146	95.22	30	120	
Tb	159	1	He	3213942	0.65	3202579	100.35	30	120	
Ho	165	1	He	3255077	1.39	3234085	100.65	30	120	
Bi	209	1	He	2270635	0.80	2214527	102.53	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49267-j-1-a
Data File Name	116SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:34:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1026.711	1026.711	0.82	5866029	0.02	10000	
B	11	45	2	NoGas	356.863	356.863	1.96	1322771	0.03	300	>LDR
Na	23	45	1	He	15002.915	15002.915	2.29	25452930	0.06	500000	
Mg	24	45	1	He	31480.841	31480.841	1.64	30466982	0.10	500000	
Al	27	45	1	He	10101.962	10101.962	1.79	5345262	0.19	200000	
K	39	45	1	He	16479.718	16479.718	2.96	17088465	0.10	500000	
Ca	44	45	1	He	172723.029	172723.029	2.66	9051157	1.91	500000	
Ti	47	45	1	He	106.308	106.308	3.74	31342	0.34	2500	
V	51	45	1	He	1050.523	1050.523	2.79	7796720	0.01	10000	
Cr	52	45	1	He	1046.504	1046.504	1.63	8823705	0.01	10000	
Mn	55	45	1	He	1053.034	1053.034	3.21	6904834	0.02	10000	
Fe	56	45	1	He	17119.032	17119.032	2.39	134852221	0.01	200000	
Co	59	45	1	He	1049.827	1049.827	2.79	12260837	0.01	10000	
Ni	60	45	1	He	1103.714	1103.714	2.28	3199254	0.03	10000	
Cu	63	45	1	He	1101.564	1101.564	1.53	8341851	0.01	10000	
Zn	66	45	1	He	2033.719	2033.719	3.29	3184876	0.06	10000	
As	75	115	1	He	1040.910	1040.910	0.33	1231472	0.08	10000	
Se	78	115	1	He	1025.113	1025.113	0.41	101704	1.01	10000	
Sr	88	45	1	He	1705.572	1705.572	2.79	13411717	0.01	10000	
Mo	95	103	1	He	111.595	111.595	0.86	399915	0.03	2000	
Ag	107	103	1	He	100.085	100.085	0.18	1143103	0.01	300	
Cd	111	115	1	He	1151.062	1151.062	1.29	2106683	0.05	4000	
Sn	118	115	1	He	1164.233	1164.233	1.35	5322685	0.02	2000	
Sb	123	115	1	He	114.533	114.533	0.72	551121	0.02	300	
Ba	137	115	1	He	1189.751	1189.751	0.84	2550903	0.05	10000	
W	182	159	1	He	103.944	103.944	0.29	1066121	0.01	2500	
Tl	205	165	1	He	256.741	256.741	0.78	6367809	0.00	5000	
Pb	208	165	1	He	1041.074	1041.074	1.00	34737647	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1824869	1.45	2317135	78.76	30	120	
Sc	45	1	He	835073	2.29	926381	90.14	30	120	
Sc	45	2	NoGas	8015991	1.15	8695701	92.18	30	120	
Rh	103	1	He	2036093	0.59	2215799	91.89	30	120	
In	115	1	He	1165502	0.66	1382146	84.33	30	120	
Tb	159	1	He	3097080	1.43	3202579	96.71	30	120	
Ho	165	1	He	3114634	0.90	3234085	96.31	30	120	
Bi	209	1	He	2101173	0.44	2214527	94.88	30	120	

Sample Report

Sample Table

Sample Name	240-49267-j-1-b ms
Data File Name	117SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:37:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1043.881	1043.881	1.74	5929982	0.02	10000	
B	11	45	2	NoGas	365.952	365.952	2.58	1353661	0.03	300	>LDR
Na	23	45	1	He	15523.882	15523.882	1.44	25958955	0.06	500000	
Mg	24	45	1	He	32533.075	32533.075	0.47	31037007	0.10	500000	
Al	27	45	1	He	10543.473	10543.473	0.56	5499117	0.19	200000	
K	39	45	1	He	17077.176	17077.176	1.21	17454882	0.10	500000	
Ca	44	45	1	He	181901.371	181901.371	2.67	9395417	1.94	500000	
Ti	47	45	1	He	110.519	110.519	3.63	32115	0.34	2500	
V	51	45	1	He	1072.099	1072.099	1.55	7843889	0.01	10000	
Cr	52	45	1	He	1074.640	1074.640	0.98	8931295	0.01	10000	
Mn	55	45	1	He	1072.249	1072.249	0.99	6931820	0.02	10000	
Fe	56	45	1	He	17709.758	17709.758	0.93	137524275	0.01	200000	
Co	59	45	1	He	1080.567	1080.567	1.59	12440822	0.01	10000	
Ni	60	45	1	He	1130.123	1130.123	1.70	3229050	0.03	10000	
Cu	63	45	1	He	1133.163	1133.163	0.65	8458529	0.01	10000	
Zn	66	45	1	He	2104.769	2104.769	1.23	3249563	0.06	10000	
As	75	115	1	He	1045.026	1045.026	0.41	1244366	0.08	10000	
Se	78	115	1	He	1029.779	1029.779	0.34	102830	1.00	10000	
Sr	88	45	1	He	1779.144	1779.144	1.14	13792593	0.01	10000	
Mo	95	103	1	He	116.236	116.236	0.24	415776	0.03	2000	
Ag	107	103	1	He	102.128	102.128	0.83	1164306	0.01	300	
Cd	111	115	1	He	1172.932	1172.932	1.12	2160665	0.05	4000	
Sn	118	115	1	He	1187.864	1187.864	1.03	5466131	0.02	2000	
Sb	123	115	1	He	115.982	115.982	0.27	561731	0.02	300	
Ba	137	115	1	He	1206.534	1206.534	0.90	2603697	0.05	10000	
W	182	159	1	He	106.285	106.285	0.90	1107937	0.01	2500	
Tl	205	165	1	He	254.621	254.621	0.62	6421593	0.00	5000	
Pb	208	165	1	He	1035.071	1035.071	1.29	35117724	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1814676	1.89	2317135	78.32	30	120	
Sc	45	1	He	822992	1.35	926381	88.84	30	120	
Sc	45	2	NoGas	8006359	0.67	8695701	92.07	30	120	
Rh	103	1	He	2032414	0.39	2215799	91.72	30	120	
In	115	1	He	1173055	0.18	1382146	84.87	30	120	
Tb	159	1	He	3148084	0.95	3202579	98.30	30	120	
Ho	165	1	He	3167098	1.02	3234085	97.93	30	120	
Bi	209	1	He	2094168	0.52	2214527	94.57	30	120	

Sample Report

Sample Table

Sample Name	240-49267-j-1-c msd
Data File Name	118SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:41:33-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1048.688	1048.688	1.50	5910368	0.02	10000	
B	11	45	2	NoGas	361.980	361.980	1.43	1333560	0.03	300	>LDR
Na	23	45	1	He	15581.760	15581.760	3.04	26115023	0.06	500000	
Mg	24	45	1	He	32172.452	32172.452	2.19	30765823	0.10	500000	
Al	27	45	1	He	10575.874	10575.874	3.24	5528087	0.19	200000	
K	39	45	1	He	17203.483	17203.483	2.63	17625086	0.10	500000	
Ca	44	45	1	He	178476.343	178476.343	2.35	9241887	1.93	500000	
Ti	47	45	1	He	109.425	109.425	4.59	31867	0.34	2500	
V	51	45	1	He	1076.681	1076.681	2.40	7896571	0.01	10000	
Cr	52	45	1	He	1065.461	1065.461	1.37	8877733	0.01	10000	
Mn	55	45	1	He	1075.747	1075.747	1.58	6972011	0.02	10000	
Fe	56	45	1	He	17786.538	17786.538	3.12	138435372	0.01	200000	
Co	59	45	1	He	1065.722	1065.722	2.19	12300070	0.01	10000	
Ni	60	45	1	He	1134.441	1134.441	1.29	3250208	0.03	10000	
Cu	63	45	1	He	1137.436	1137.436	3.22	8508980	0.01	10000	
Zn	66	45	1	He	2072.062	2072.062	2.26	3206874	0.06	10000	
As	75	115	1	He	1057.068	1057.068	1.54	1256802	0.08	10000	
Se	78	115	1	He	1034.392	1034.392	1.98	103131	1.00	10000	
Sr	88	45	1	He	1769.780	1769.780	3.06	13752587	0.01	10000	
Mo	95	103	1	He	114.822	114.822	2.99	412823	0.03	2000	
Ag	107	103	1	He	102.020	102.020	3.14	1169024	0.01	300	
Cd	111	115	1	He	1170.515	1170.515	3.14	2152723	0.05	4000	
Sn	118	115	1	He	1182.010	1182.010	2.05	5430879	0.02	2000	
Sb	123	115	1	He	115.483	115.483	1.19	558481	0.02	300	
Ba	137	115	1	He	1212.216	1212.216	1.61	2611987	0.05	10000	
W	182	159	1	He	106.346	106.346	0.51	1106168	0.01	2500	
Tl	205	165	1	He	255.955	255.955	1.18	6444428	0.00	5000	
Pb	208	165	1	He	1050.592	1050.592	1.02	35587225	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1800212	1.25	2317135	77.69	30	120	
Sc	45	1	He	825239	2.79	926381	89.08	30	120	
Sc	45	2	NoGas	7971550	1.09	8695701	91.67	30	120	
Rh	103	1	He	2043611	1.95	2215799	92.23	30	120	
In	115	1	He	1171424	1.27	1382146	84.75	30	120	
Tb	159	1	He	3141112	1.10	3202579	98.08	30	120	
Ho	165	1	He	3162008	1.35	3234085	97.77	30	120	
Bi	209	1	He	2112654	1.63	2214527	95.40	30	120	

Sample Report

Sample Table

Sample Name	240-49267-k-1-a
Data File Name	119SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:45:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.669	0.669	6.43	4138	0.02	10000	
B	11	45	2	NoGas	165.924	165.924	1.31	654559	0.03	300	
Na	23	45	1	He	3643.205	3643.205	0.48	6328950	0.06	500000	
Mg	24	45	1	He	16258.031	16258.031	1.59	16014564	0.10	500000	
Al	27	45	1	He	-3.276	-3.276	-18.43	8728	-0.04	200000	
K	39	45	1	He	6056.950	6056.950	1.96	6441575	0.09	500000	
Ca	44	45	1	He	112922.618	112922.618	2.73	6022487	1.88	500000	
Ti	47	45	1	He	0.627	0.627	13.19	203	0.31	2500	
V	51	45	1	He	0.624	0.624	5.60	5206	0.01	10000	
Cr	52	45	1	He	1.994	1.994	1.74	20862	0.01	10000	
Mn	55	45	1	He	11.414	11.414	1.61	78206	0.01	10000	
Fe	56	45	1	He	42.131	42.131	3.75	351868	0.01	200000	
Co	59	45	1	He	0.406	0.406	5.14	5134	0.01	10000	
Ni	60	45	1	He	25.694	25.694	0.85	76388	0.03	10000	
Cu	63	45	1	He	21.735	21.735	1.87	171077	0.01	10000	
Zn	66	45	1	He	500.471	500.471	0.69	799597	0.06	10000	
As	75	115	1	He	0.816	0.816	10.08	1279	0.06	10000	
Se	78	115	1	He	0.913	0.913	25.83	223	0.41	10000	
Sr	88	45	1	He	434.213	434.213	2.28	3475320	0.01	10000	
Mo	95	103	1	He	4.175	4.175	9.04	15647	0.03	2000	
Ag	107	103	1	He	0.034	0.034	10.74	427	0.01	300	
Cd	111	115	1	He	4.614	4.614	0.91	10388	0.04	4000	
Sn	118	115	1	He	3.018	3.018	21.45	17922	0.02	2000	
Sb	123	115	1	He	3.062	3.062	2.45	15995	0.02	300	
Ba	137	115	1	He	10.095	10.095	1.35	23454	0.04	10000	
W	182	159	1	He	1.891	1.891	12.04	22958	0.01	2500	
Tl	205	165	1	He	0.270	0.270	24.78	7243	0.00	5000	
Pb	208	165	1	He	0.243	0.243	8.09	9411	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1881517	0.62	2317135	81.20	30	120	
Sc	45	1	He	849675	1.21	926381	91.72	30	120	
Sc	45	2	NoGas	8266666	1.08	8695701	95.07	30	120	
Rh	103	1	He	2123066	0.33	2215799	95.81	30	120	
In	115	1	He	1259384	0.55	1382146	91.12	30	120	
Tb	159	1	He	3179794	0.76	3202579	99.29	30	120	
Ho	165	1	He	3177257	0.79	3234085	98.24	30	120	
Bi	209	1	He	2197259	1.57	2214527	99.22	30	120	

Sample Report

Sample Table

Sample Name	240-49267-j-3-a
Data File Name	120SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:48:56-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.463	0.463	7.20	2878	0.02	10000	
B	11	45	2	NoGas	128.677	128.677	1.00	512839	0.03	300	
Na	23	45	1	He	15987.112	15987.112	2.15	27860149	0.06	500000	
Mg	24	45	1	He	12815.987	12815.987	2.43	12745173	0.10	500000	
Al	27	45	1	He	48.837	48.837	2.68	37080	0.13	200000	
K	39	45	1	He	6295.837	6295.837	1.82	6755962	0.09	500000	
Ca	44	45	1	He	67886.181	67886.181	2.37	3655422	1.86	500000	
Ti	47	45	1	He	2.078	2.078	21.55	643	0.32	2500	
V	51	45	1	He	1.976	1.976	8.52	15582	0.01	10000	
Cr	52	45	1	He	2.223	2.223	0.99	23046	0.01	10000	
Mn	55	45	1	He	175.098	175.098	1.68	1181379	0.01	10000	
Fe	56	45	1	He	1418.947	1418.947	2.28	11494812	0.01	200000	
Co	59	45	1	He	1.717	1.717	3.51	20910	0.01	10000	
Ni	60	45	1	He	3.700	3.700	3.52	11618	0.03	10000	
Cu	63	45	1	He	4.003	4.003	3.09	34816	0.01	10000	
Zn	66	45	1	He	29.439	29.439	1.86	49741	0.06	10000	
As	75	115	1	He	1.160	1.160	3.10	1721	0.07	10000	
Se	78	115	1	He	0.600	0.600	20.86	190	0.32	10000	
Sr	88	45	1	He	246.320	246.320	3.03	1989984	0.01	10000	
Mo	95	103	1	He	1.379	1.379	3.49	5236	0.03	2000	
Ag	107	103	1	He	0.038	0.038	17.99	481	0.01	300	
Cd	111	115	1	He	1.129	1.129	6.69	3504	0.03	4000	
Sn	118	115	1	He	0.937	0.937	15.46	7646	0.01	2000	
Sb	123	115	1	He	0.813	0.813	4.22	4305	0.02	300	
Ba	137	115	1	He	98.003	98.003	0.30	227398	0.04	10000	
W	182	159	1	He	0.612	0.612	2.82	9648	0.01	2500	
Tl	205	165	1	He	0.080	0.080	8.61	2452	0.00	5000	
Pb	208	165	1	He	0.462	0.462	2.79	17004	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1849812	0.86	2317135	79.83	30	120	
Sc	45	1	He	857822	2.52	926381	92.60	30	120	
Sc	45	2	NoGas	8212593	0.81	8695701	94.44	30	120	
Rh	103	1	He	2137801	0.93	2215799	96.48	30	120	
In	115	1	He	1260925	0.36	1382146	91.23	30	120	
Tb	159	1	He	3214933	0.83	3202579	100.39	30	120	
Ho	165	1	He	3204504	1.17	3234085	99.09	30	120	
Bi	209	1	He	2188167	0.62	2214527	98.81	30	120	

Sample Report

Sample Table

Sample Name	240-49267-k-3-a
Data File Name	121SMPL.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:52:45-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.370	0.370	13.03	2363	0.02	10000	
B	11	45	2	NoGas	140.350	140.350	1.19	552726	0.03	300	
Na	23	45	1	He	17680.937	17680.937	1.91	30322939	0.06	500000	
Mg	24	45	1	He	13331.998	13331.998	1.52	13049140	0.10	500000	
Al	27	45	1	He	0.414	0.414	133.79	10640	0.00	200000	
K	39	45	1	He	6588.225	6588.225	2.62	6954306	0.09	500000	
Ca	44	45	1	He	71490.483	71490.483	1.12	3790462	1.89	500000	
Ti	47	45	1	He	0.545	0.545	11.25	178	0.31	2500	
V	51	45	1	He	1.679	1.679	9.45	13076	0.01	10000	
Cr	52	45	1	He	2.164	2.164	5.42	22169	0.01	10000	
Mn	55	45	1	He	152.922	152.922	2.36	1015711	0.02	10000	
Fe	56	45	1	He	1239.380	1239.380	1.73	9885076	0.01	200000	
Co	59	45	1	He	1.589	1.589	2.62	19069	0.01	10000	
Ni	60	45	1	He	3.249	3.249	1.02	10119	0.03	10000	
Cu	63	45	1	He	2.088	2.088	4.06	19615	0.01	10000	
Zn	66	45	1	He	27.843	27.843	2.12	46432	0.06	10000	
As	75	115	1	He	0.970	0.970	3.79	1466	0.07	10000	
Se	78	115	1	He	0.396	0.396	12.56	167	0.24	10000	
Sr	88	45	1	He	256.096	256.096	2.27	2036713	0.01	10000	
Mo	95	103	1	He	1.139	1.139	7.75	4321	0.03	2000	
Ag	107	103	1	He	0.009	0.009	35.79	132	0.01	300	
Cd	111	115	1	He	0.222	0.222	4.74	1694	0.01	4000	
Sn	118	115	1	He	0.697	0.697	7.73	6413	0.01	2000	
Sb	123	115	1	He	0.613	0.613	2.47	3243	0.02	300	
Ba	137	115	1	He	99.538	99.538	0.36	229175	0.04	10000	
W	182	159	1	He	0.391	0.391	9.38	7217	0.01	2500	
Tl	205	165	1	He	0.044	0.044	8.18	1521	0.00	5000	
Pb	208	165	1	He	0.101	0.101	7.87	4560	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1866878	1.78	2317135	80.57	30	120	
Sc	45	1	He	844320	2.15	926381	91.14	30	120	
Sc	45	2	NoGas	8165722	1.11	8695701	93.91	30	120	
Rh	103	1	He	2133484	2.18	2215799	96.29	30	120	
In	115	1	He	1251189	0.05	1382146	90.53	30	120	
Tb	159	1	He	3178205	0.20	3202579	99.24	30	120	
Ho	165	1	He	3177455	1.03	3234085	98.25	30	120	
Bi	209	1	He	2189919	0.90	2214527	98.89	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	122_CCV.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T16:56:34-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.502	2.690	298978	2.90	50	97.0	89.5	110.5	
B	11	45	2	NoGas	50.978	2.497	232475	1.70	50	102.0	89.5	110.5	
Na	23	45	1	He	25612.874	3.306	45454762	2.13	25000	102.5	89.5	110.5	
Mg	24	45	1	He	25511.772	3.032	25848997	2.00	25000	102.0	89.5	110.5	
Al	27	45	1	He	242.703	1.213	145056	3.57	250	97.1	89.5	110.5	
K	39	45	1	He	26097.548	2.852	28288411	1.43	25000	104.4	89.5	110.5	
Ca	44	45	1	He	26214.104	2.413	1440037	1.88	25000	104.9	89.5	110.5	
Ti	47	45	1	He	51.889	1.775	16033	3.12	50	103.8	89.5	110.5	
V	51	45	1	He	52.887	2.485	411519	2.25	50	105.8	89.5	110.5	
Cr	52	45	1	He	52.184	3.111	464294	1.93	50	104.4	89.5	110.5	
Mn	55	45	1	He	264.814	2.844	1820012	2.40	250	105.9	89.5	110.5	
Fe	56	45	1	He	13122.532	2.966	108230531	1.76	12500	105.0	89.5	110.5	
Co	59	45	1	He	52.391	1.864	641144	2.47	50	104.8	89.5	110.5	
Ni	60	45	1	He	52.371	1.977	159566	2.58	50	104.7	89.5	110.5	
Cu	63	45	1	He	53.319	2.660	426310	1.93	50	106.6	89.5	110.5	
Zn	66	45	1	He	53.041	2.668	89374	1.69	50	106.1	89.5	110.5	
As	75	115	1	He	50.866	1.939	67008	2.04	50	101.7	89.5	110.5	
Se	78	115	1	He	50.060	3.153	5633	2.01	50	100.1	89.5	110.5	
Sr	88	45	1	He	52.816	2.985	435316	1.62	50	105.6	89.5	110.5	
Mo	95	103	1	He	50.852	3.007	186578	1.82	50	101.7	89.5	110.5	
Ag	107	103	1	He	52.144	5.459	609255	1.56	50	104.3	89.5	110.5	
Cd	111	115	1	He	51.656	2.171	106145	1.70	50	103.3	89.5	110.5	
Sn	118	115	1	He	50.489	1.693	259086	0.89	50	101.0	89.5	110.5	
Sb	123	115	1	He	53.157	1.876	283849	0.56	50	106.3	89.5	110.5	
Ba	137	115	1	He	51.525	0.397	122668	1.97	50	103.0	89.5	110.5	
W	182	159	1	He	49.375	1.857	516210	0.26	50	98.8	89.5	110.5	
Tl	205	165	1	He	49.412	4.879	1242597	2.38	50	98.8	89.5	110.5	
Pb	208	165	1	He	50.336	3.990	1703832	1.50	50	100.7	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1967418	1.25	2317135	84.91	30	120	
Sc	45	1	He	874704	4.34	926381	94.42	30	120	
Sc	45	2	NoGas	8446426	0.43	8695701	97.13	30	120	
Rh	103	1	He	2085889	3.97	2215799	94.14	30	120	
In	115	1	He	1293481	2.20	1382146	93.58	30	120	
Tb	159	1	He	3147819	1.96	3202579	98.29	30	120	
Ho	165	1	He	3159561	2.46	3234085	97.70	30	120	
Bi	209	1	He	2153567	2.32	2214527	97.25	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	123_CCB.d
Data Path Name	D:\Analytical Runs\I10041415A.b
Acq Date Time	2015-04-14T17:00:23-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

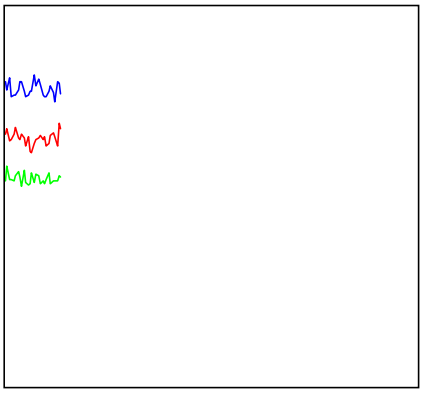
Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.264	12.8	1889	10.2	1	
B	11	45	2	NoGas	1.493	12.5	45160	1.3	20	
Na	23	45	1	He	8.990	12.2	66182	1.3	400	
Mg	24	45	1	He	-2.212	-40.6	3330	24.9	1000	
Al	27	45	1	He	-17.651	-0.2	1003	0.9	50	
K	39	45	1	He	3.929	66.6	81969	1.8	1000	
Ca	44	45	1	He	-21.483	-9.3	708	13.4	1000	
Ti	47	45	1	He	0.038	164.5	27	69.6	20	
V	51	45	1	He	-0.043	-185.3	172	345.2	2	
Cr	52	45	1	He	0.037	19.4	4087	3.3	2	
Mn	55	45	1	He	-0.184	-5.6	824	7.4	2	
Fe	56	45	1	He	14.685	34.8	131590	29.5	50	
Co	59	45	1	He	0.020	35.4	546	13.6	1	
Ni	60	45	1	He	-0.135	-4.4	202	9.1	2	
Cu	63	45	1	He	-0.192	-6.1	2189	2.3	2	
Zn	66	45	1	He	-0.775	-8.5	1153	7.4	20	
As	75	115	1	He	0.039	45.8	303	7.7	2	
Se	78	115	1	He	0.150	103.5	150	11.4	2	
Sr	88	45	1	He	0.034	1.1	746	1.7	10	
Mo	95	103	1	He	0.913	23.4	3639	23.9	2	
Ag	107	103	1	He	0.007	34.2	114	27.7	0.2	
Cd	111	115	1	He	0.110	44.0	1573	6.1	0.2	
Sn	118	115	1	He	0.158	18.7	4012	3.7	10	
Sb	123	115	1	He	0.265	11.6	1537	10.7	1	
Ba	137	115	1	He	0.048	22.0	190	13.2	5	
W	182	159	1	He	1.097	11.3	14707	8.3	10	
Tl	205	165	1	He	0.050	13.0	1675	10.4	0.5	
Pb	208	165	1	He	0.027	5.7	2072	3.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2028298	1.18	2317135	87.53	30	120	
Sc	45	1	He	851769	1.80	926381	91.95	30	120	
Sc	45	2	NoGas	8547671	0.47	8695701	98.30	30	120	
Rh	103	1	He	2229492	0.79	2215799	100.62	30	120	
In	115	1	He	1333725	0.44	1382146	96.50	30	120	
Tb	159	1	He	3198118	0.66	3202579	99.86	30	120	
Ho	165	1	He	3209920	0.54	3234085	99.25	30	120	
Bi	209	1	He	2220494	0.59	2214527	100.27	30	120	

Current Signal

[NoGas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	3401	3268.7	2.82
89	10000	5516	5467.9	2.34
205	5000	3845	3911.7	2.34
156/140	5	1.377 %	1.369 %	20.98
70/140	5	2.925 %	3.549 %	9.47
115	200	45	90.5	31.87
63	2000	1479	1498.5	4.50
60	500	264	283.6	10.47
Integration Time [sec]		0.10		

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

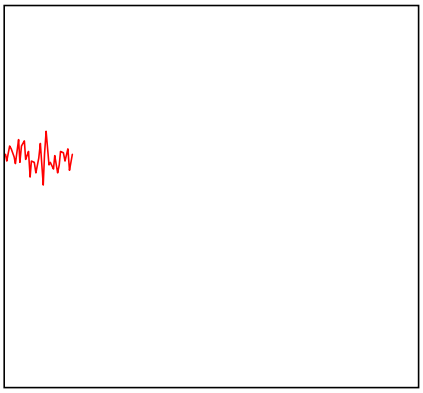
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	15.00	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	6.02E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	2000	1223	1203.9	5.04
51	200	78	89.8	10.86
52	500	187	200.6	7.53
51/59	10	6.376 %	7.479 %	12.49
52/59	20	15.286 %	16.706 %	9.36
7	50	10	12.9	34.12
89	2000	1320	1293.8	3.54
205	5000	2119	2081.9	2.82
6	20	1	1.0	103.08
Integration Time [sec]			0.10	

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	-2.0	V
Extract 2	-185.0	V	Cell Entrance	-50	V	Plate Bias	-70	V
Omega Bias	-85	V	Cell Exit	-70	V			

Cell Parameters

Use Gas	true		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	4.0	mL/min	OctP Bias	-20.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	15.00	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	6.03E+2	kPa			

US EPA Tune Check Sample Report

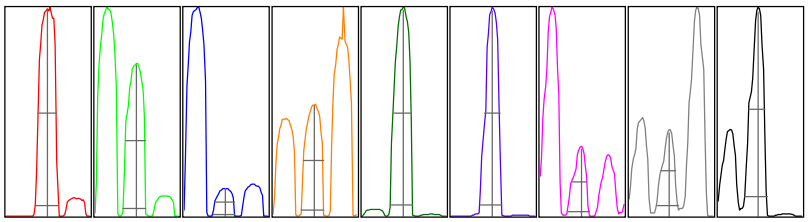
Batch Folder D:\Analytical Runs\I10041415A.b
Report Comment
Instrument Name I10 JP12452145

[NoGas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	47072	0.54	5.00	
24	181873	0.38	5.00	
25	23722	0.62	5.00	
26	27544	0.24	5.00	
59	192921	0.28	5.00	
115	261862	0.59	5.00	
206	68873	0.47	5.00	
207	61942	0.59	5.00	
208	144357	0.44	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	47169	47096	47409	46965	46719
24	181665	180976	182024	181807	182895
25	23761	23825	23509	23873	23640
26	27524	27555	27652	27494	27496
59	193396	193190	193157	192015	192848
115	262971	263460	262445	260135	260301
206	68725	69439	68735	68833	68633
207	62370	62021	61876	62069	61374
208	143947	144312	144766	145170	143591

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
9	7388	9.00	8.9 - 9.1		0.793	0.850	
24	28571	24.00	23.9 - 24.1		0.793	0.850	
25	3795	25.00	24.9 - 25.1		0.787	0.850	
26	4330	26.00	25.9 - 26.1		0.791	0.850	
59	31084	59.00	58.9 - 59.1		0.793	0.850	
115	48594	115.00	114.9 - 115.1		0.774	0.850	
206	12953	206.00	205.9 - 206.1		0.766	0.850	
207	11433	206.95	206.9 - 207.1		0.748	0.850	
208	27921	207.95	207.9 - 208.1		0.761	0.850	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 235 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

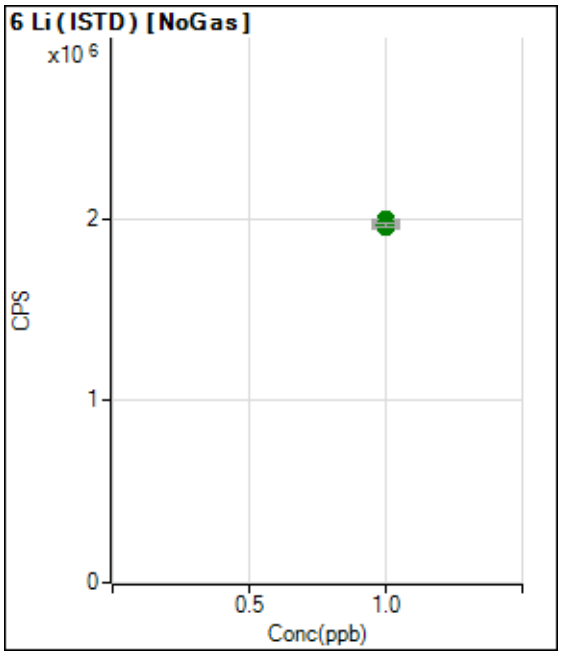
US EPA Tune Check Sample Report

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
ParameterName	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

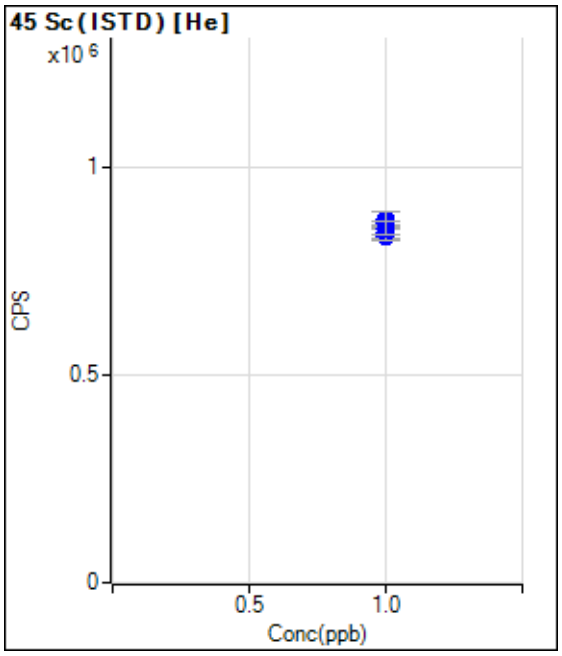
Calibration for 051_Blk.d

Batch Folder: D:\Analytical Runs\I10041515B.b\
Analysis File: I10041515B.batch.bin
DA Date-Time: 4/15/2015 1:18:50 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

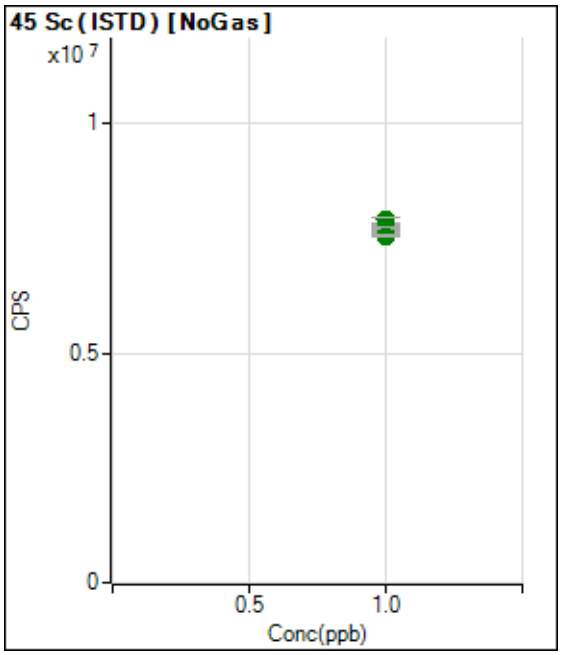
Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	ICIS	4/15/2015 10:08:14 AM
2	003CALS.d	STD1-1906323	4/15/2015 10:12:07 AM
3	004CALS.d	STD2-1904110	4/15/2015 10:15:59 AM
4	005CALS.d	STD3-1906333	4/15/2015 10:19:47 AM
5	006CALS.d	STD4-1906536	4/15/2015 10:23:34 AM



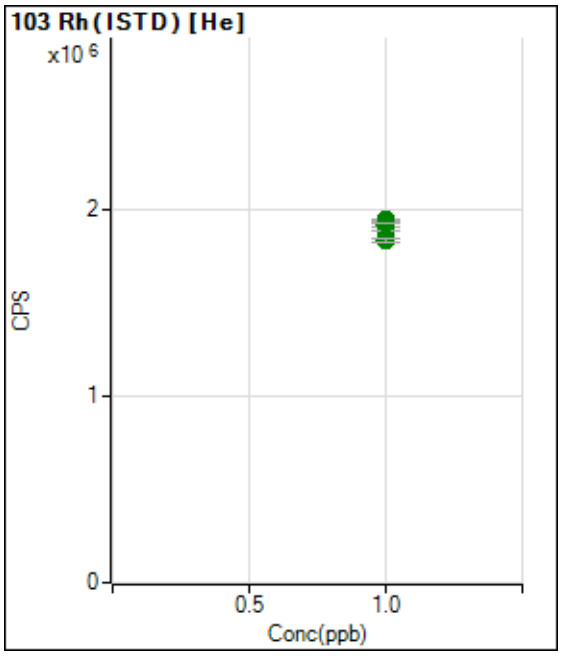
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1981018.77		A	0.6
2	☐	1.000		1993815.98		A	0.7
3	☐	1.000		1967730.65		A	1.2
4	☐	1.000		1953766.07		A	0.9
5	☐	1.000		1962427.04		A	1.1



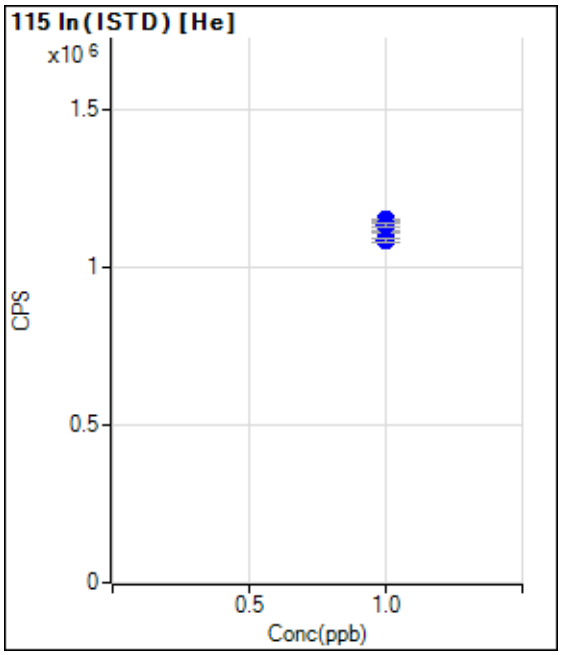
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		833671.89		P	0.6
2	☐	1.000		868197.36		P	1.0
3	☐	1.000		874033.76		P	4.6
4	☐	1.000		841546.63		P	3.6
5	☐	1.000		853364.29		P	4.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7685379.42		A	1.3
2	☐	1.000		7901464.13		A	1.3
3	☐	1.000		7735145.25		A	1.3
4	☐	1.000		7721888.86		A	0.6
5	☐	1.000		7541793.87		A	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1912940.27		A	1.1
2	☐	1.000		1943977.00		A	0.5
3	☐	1.000		1888917.22		A	0.1
4	☐	1.000		1833831.53		A	1.2
5	☐	1.000		1927102.84		A	0.3



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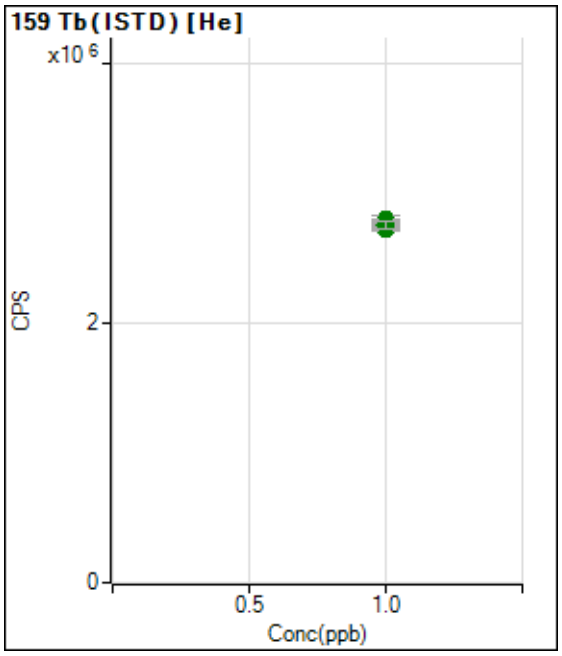
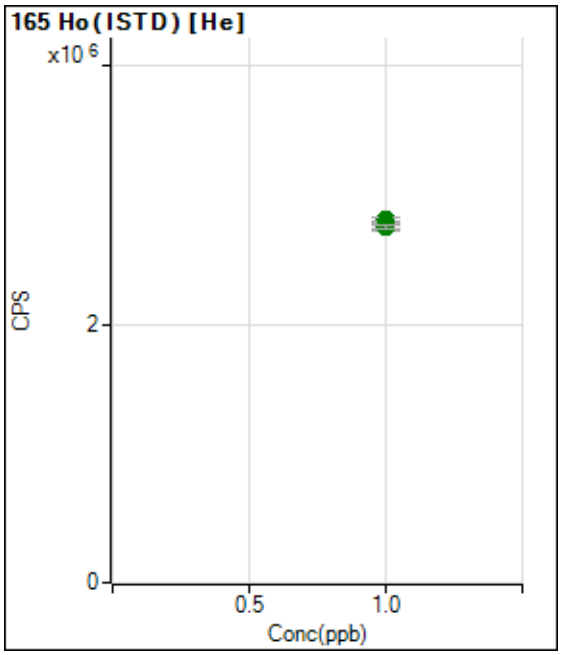
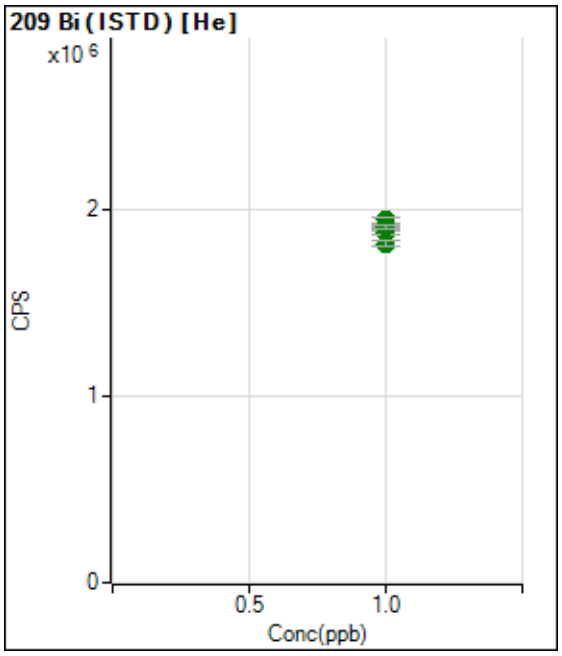
1	☐	1.000		1142978.32		P	0.7
2	☐	1.000		1150119.48		P	0.3
3	☐	1.000		1113751.18		P	0.6
4	☐	1.000		1086405.23		P	0.9
5	☐	1.000		1134951.08		P	0.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2736958.02		A	1.1
2	☐	1.000		2794726.77		A	2.2
3	☐	1.000		2780566.70		A	0.9
4	☐	1.000		2723883.78		A	0.7
5	☐	1.000		2756653.92		A	1.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2784763.99		A	1.5
2	☐	1.000		2807980.72		A	0.9
3	☐	1.000		2783618.15		A	0.2
4	☐	1.000		2747963.99		A	1.7
5	☐	1.000		2751852.60		A	1.0



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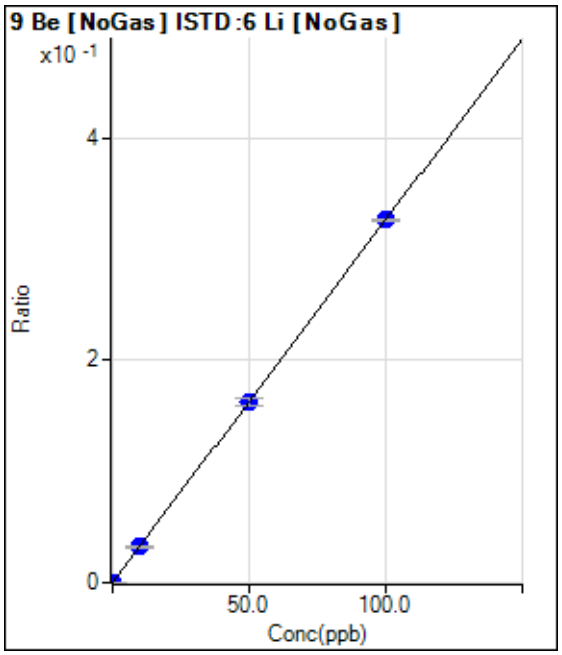
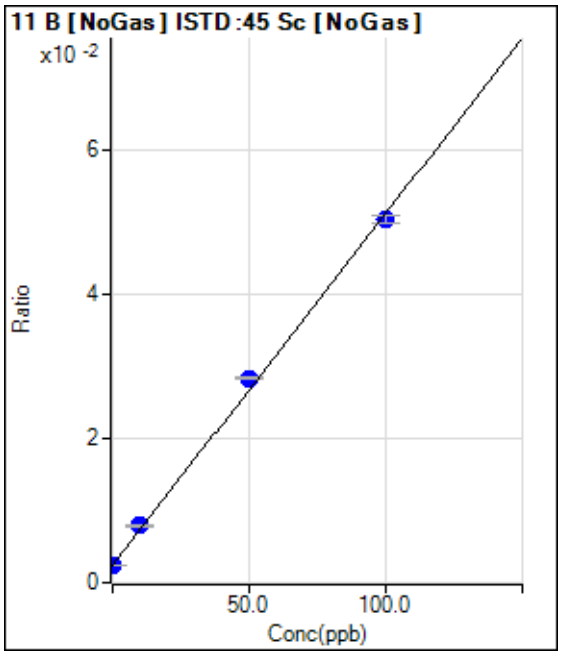
1	☐	1.000		1889571.11		A	0.9
2	☐	1.000		1940335.06		A	1.4
3	☐	1.000		1870165.27		A	1.2
4	☐	1.000		1814745.21		A	1.9
5	☐	1.000		1901457.57		A	1.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.93	0.0001	P	39.6
2	☐	10.000	9.838	64140.19	0.0322	P	3.1
3	☐	50.000	49.869	320260.21	0.1628	P	3.5
4	☐	100.000	100.082	638220.49	0.3267	P	0.8
5	☐			525.96	0.0003	P	24.6

y = 0.0033 * x + 6.3554E-005
R = 1.0000
DL = 0.02311
BEC = 0.01948

Weight: <None>
Min Conc: <None>

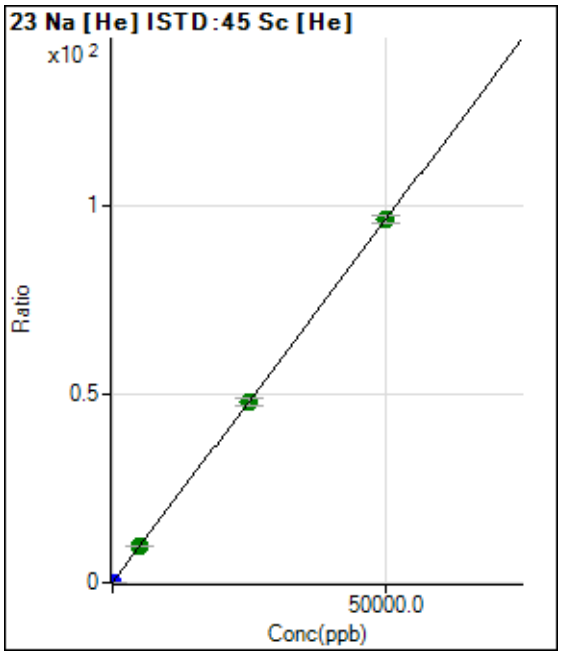


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18524.76	0.0024	P	5.1
2	☐	10.000	11.352	62761.93	0.0079	P	2.1
3	☐	50.000	53.171	219101.75	0.0283	P	0.9
4	☐			24947.09	0.0032	P	3.2
5	☐	100.000	98.279	379459.11	0.0503	P	2.1

y = 4.8741E-004 * x + 0.0024
R = 0.9991
DL = 0.7524
BEC = 4.947

Weight: <None>
Min Conc: <None>

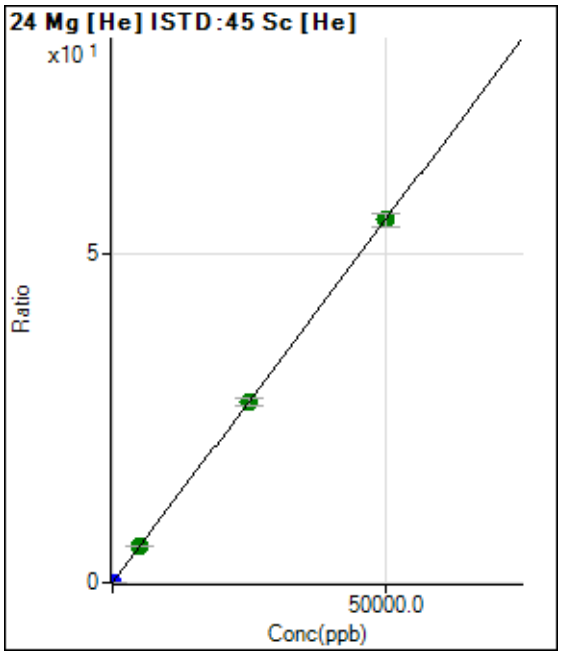
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43893.85	0.0527	P	1.1
2	☐	5000.000	5083.166	8526098.73	9.8211	A	1.1
3	☐	25000.000	24981.812	41948085.37	48.0609	A	4.6
4	☐	50000.000	50000.777	80863052.34	96.1406	A	2.3
5	☐			62083.13	0.0727	P	2.0

y = 0.0019 * x + 0.0527
R = 1.0000
DL = 0.8955
BEC = 27.4

Weight: <None>
Min Conc: <None>

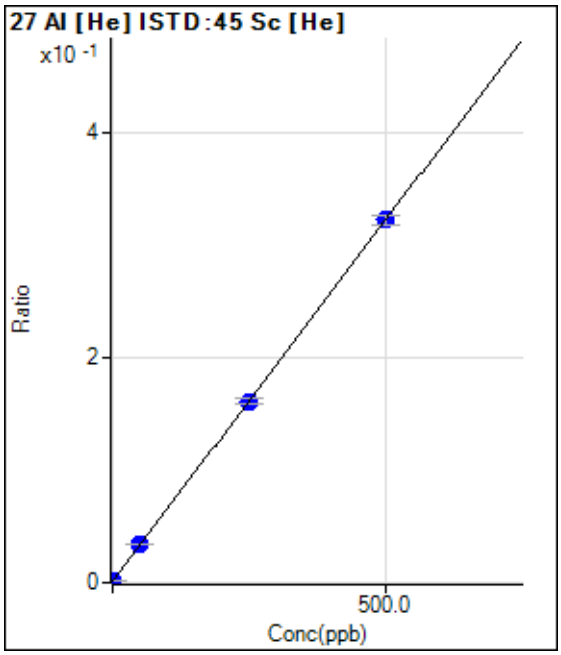


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2266.93	0.0027	P	16.3
2	☐	5000.000	5110.426	4899876.66	5.6438	A	0.9
3	☐	25000.000	24992.398	24083999.97	27.5902	A	4.2
4	☐	50000.000	49992.758	46403968.53	55.1864	A	3.5
5	☐			7353.64	0.0086	P	10.5

y = 0.0011 * x + 0.0027
R = 1.0000
DL = 1.206
BEC = 2.464

Weight: <None>
Min Conc: <None>

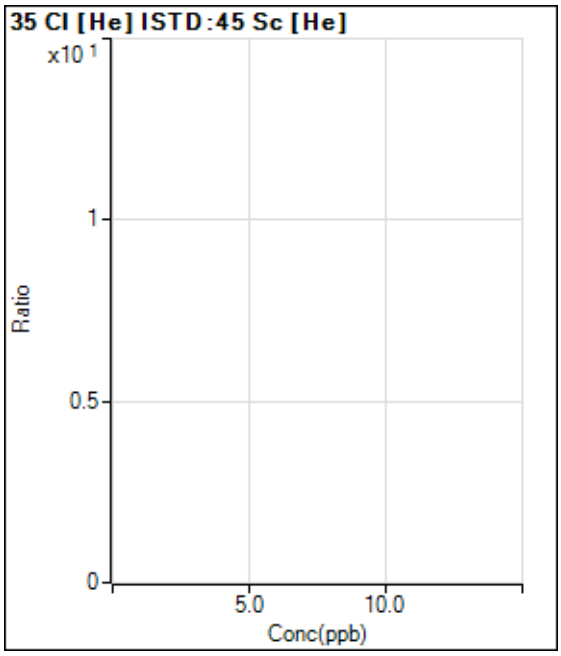
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1037.82	0.0012	P	2.7
2	☐	50.000	50.557	29255.44	0.0337	P	0.3
3	☐	250.000	249.201	140775.24	0.1612	P	2.9
4	☐	500.000	500.344	271150.33	0.3224	P	2.7
5	☐			2087.92	0.0024	P	5.8

y = 6.4189E-004 * x + 0.0012
R = 1.0000
DL = 0.1551
BEC = 1.94

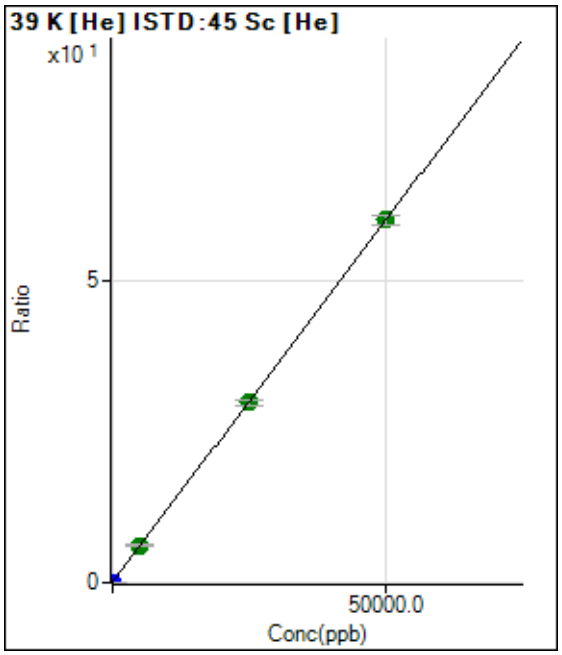
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			19396000.62	23.2655	A	0.3
2	☐			19623181.16	22.6042	A	1.3
3	☐			19318893.21	22.1358	A	4.8
4	☐			19128757.11	22.7501	A	3.7
5	☐			18993693.69	22.2824	A	4.3

Excluded

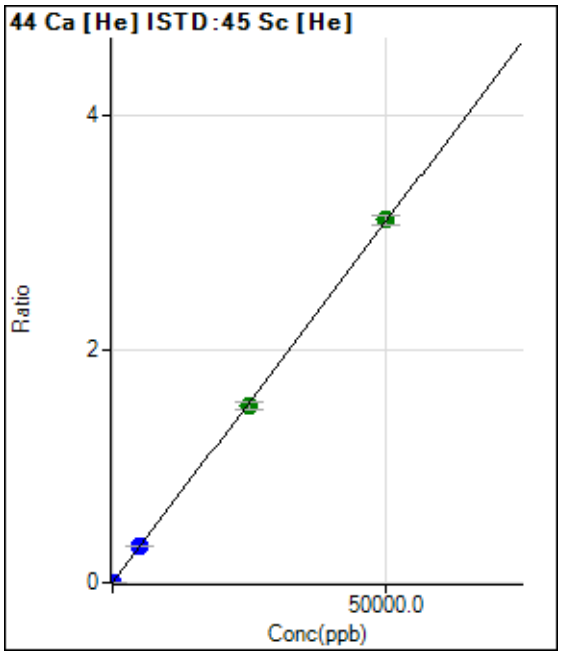
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77215.47	0.0926	P	1.1
2	☐	5000.000	5088.244	5374041.45	6.1903	A	1.5
3	☐	25000.000	24810.867	26040454.52	29.8257	A	3.5
4	☐	50000.000	50085.742	50557623.92	60.1148	A	2.9
5	☐			86854.65	0.1018	P	2.0

y = 0.0012 * x + 0.0926
R = 1.0000
DL = 2.443
BEC = 77.29

Weight: <None>
Min Conc: <None>

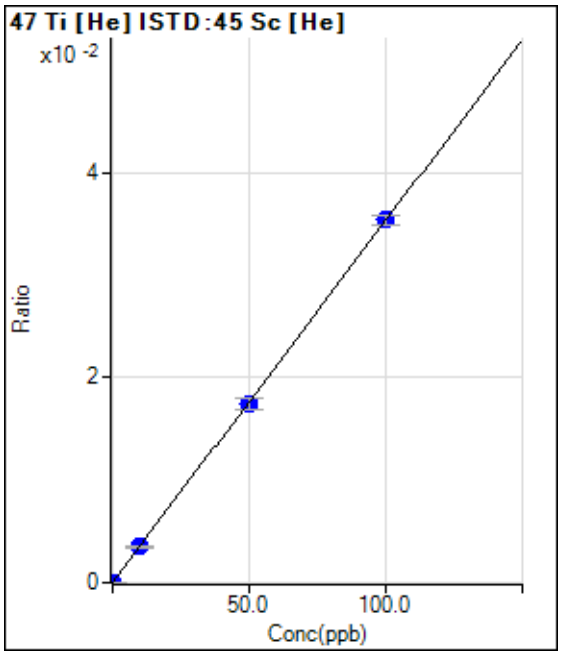


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	418.99	0.0005	P	8.4
2	☐	5000.000	4968.484	266958.65	0.3075	P	0.5
3	☐	25000.000	24474.064	1320653.26	1.5127	A	3.7
4	☐	50000.000	50266.120	2612329.15	3.1063	A	2.9
5	☐			1383.64	0.0016	P	10.8

y = 6.1788E-005 * x + 5.0272E-004
R = 0.9999
DL = 2.059
BEC = 8.136

Weight: <None>
Min Conc: <None>

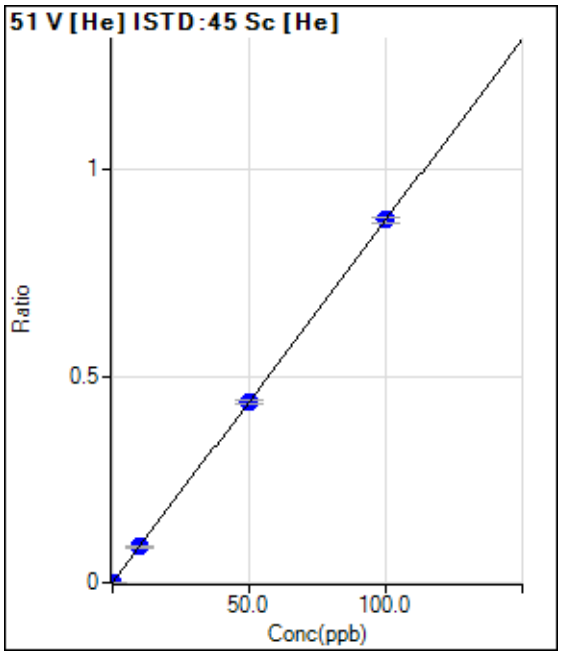
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	19.5
2	☐	10.000	9.886	3046.96	0.0035	P	5.8
3	☐	50.000	49.515	15262.14	0.0175	P	6.1
4	☐			44.45	0.0001	P	47.4
5	☐	100.000	100.254	30184.06	0.0354	P	2.6

y = 3.5285E-004 * x + 1.9981E-005
R = 1.0000
DL = 0.03319
BEC = 0.05663

Weight: <None>
Min Conc: <None>

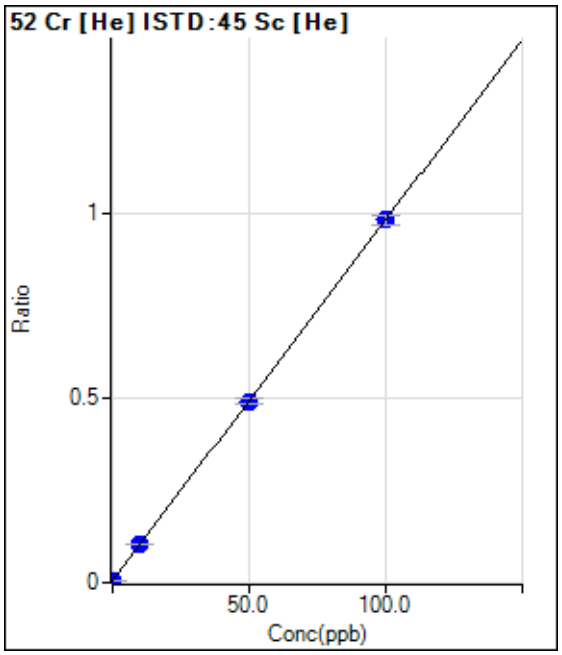


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	408.79	0.0005	P	175.3
2	☐	10.000	9.786	74850.09	0.0862	P	2.5
3	☐	50.000	49.748	380978.80	0.4362	P	2.2
4	☐	100.000	100.147	738214.25	0.8776	P	1.8
5	☐			416.07	0.0005	P	182.1

y = 0.0088 * x + 4.8852E-004
R = 1.0000
DL = 0.2933
BEC = 0.05578

Weight: <None>
Min Conc: <None>

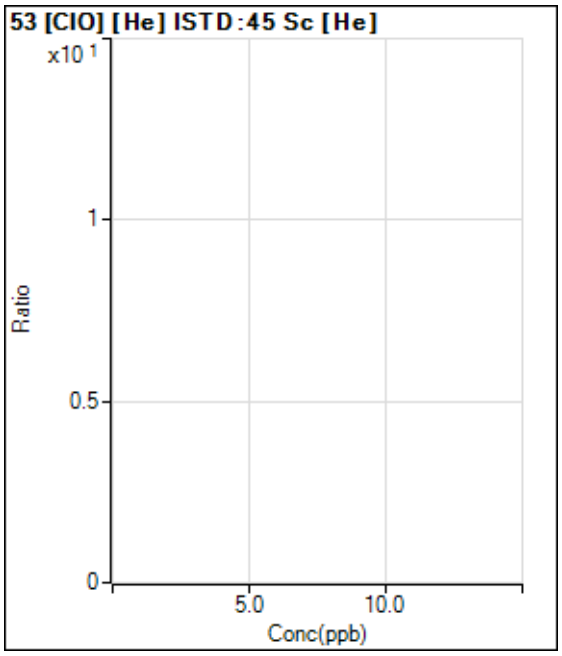
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3804.89	0.0046	P	4.2
2	☐	10.000	10.302	91378.95	0.1053	P	1.0
3	☐	50.000	49.825	429143.26	0.4916	P	3.7
4	☐	100.000	100.057	826368.27	0.9825	P	2.4
5	☐			3807.12	0.0045	P	2.2

y = 0.0098 * x + 0.0046
R = 1.0000
DL = 0.0585
BEC = 0.467

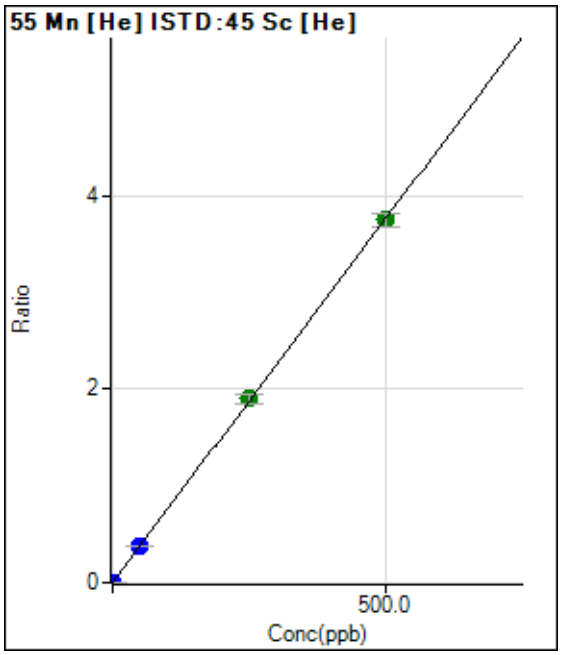
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1214.92	0.0015	P	17.0
2	☐			11882.31	0.0137	P	3.2
3	☐			52481.15	0.0602	P	6.9
4	☐			99848.97	0.1188	P	4.1
5	☐			918.59	0.0011	P	26.2

Excluded

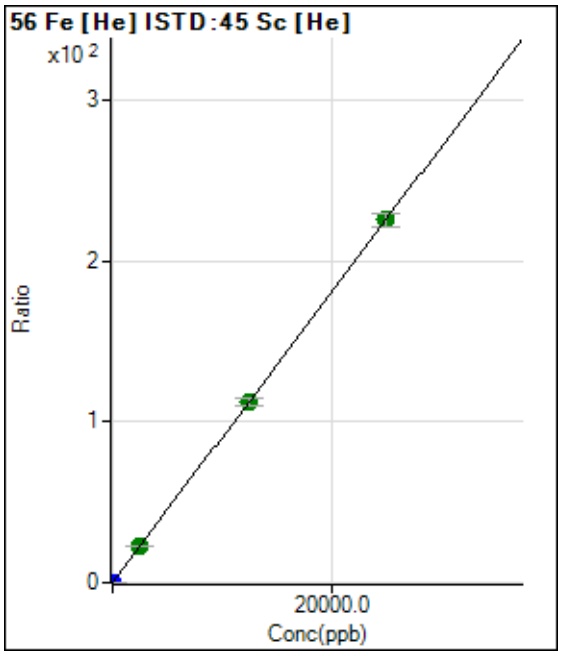
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	396.67	0.0005	P	9.2
2	☐	50.000	49.981	326805.29	0.3764	P	0.3
3	☐	250.000	252.587	1658700.28	1.9004	A	4.6
4	☐	500.000	498.708	3154462.86	3.7517	A	3.8
5	☐			854.48	0.0010	P	5.9

y = 0.0075 * x + 4.7572E-004
R = 1.0000
DL = 0.01752
BEC = 0.06324

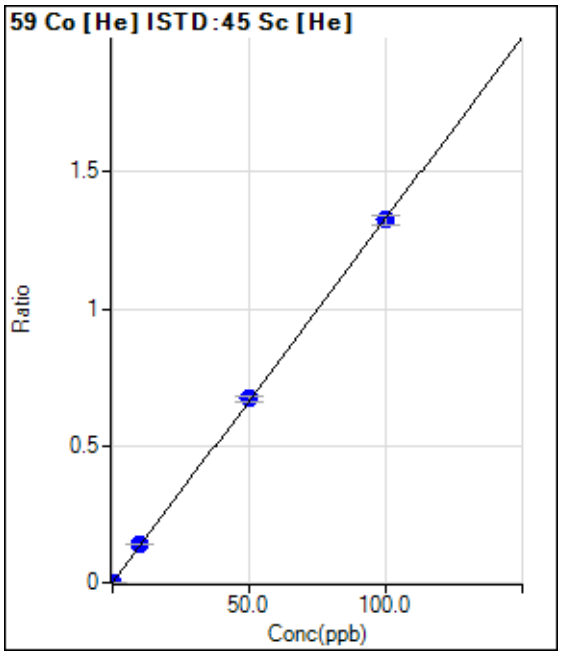
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13631.94	0.0164	P	0.7
2	☐	2500.000	2524.722	19780657.55	22.7836	A	0.6
3	☐	12500.000	12420.606	97777031.67	112.0221	A	4.4
4	☐	25000.000	25037.225	189866930.23	225.7954	A	3.4
5	☐			211673.10	0.2463	P	27.2

y = 0.0090 * x + 0.0164
R = 1.0000
DL = 0.03776
BEC = 1.813

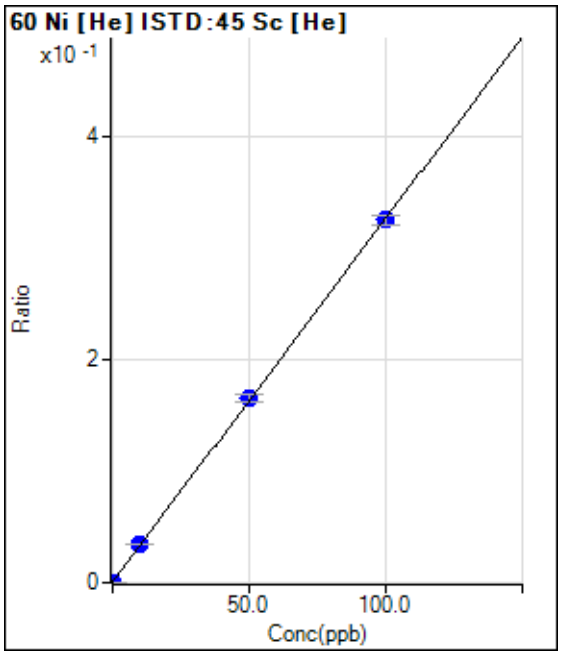
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0002	P	19.8
2	☐	10.000	10.428	120352.38	0.1386	P	0.2
3	☐	50.000	50.480	585311.94	0.6704	P	3.7
4	☐	100.000	99.717	1113710.99	1.3242	P	2.5
5	☐			296.68	0.0003	P	5.9

y = 0.0133 * x + 1.6647E-004
R = 1.0000
DL = 0.007462
BEC = 0.01254

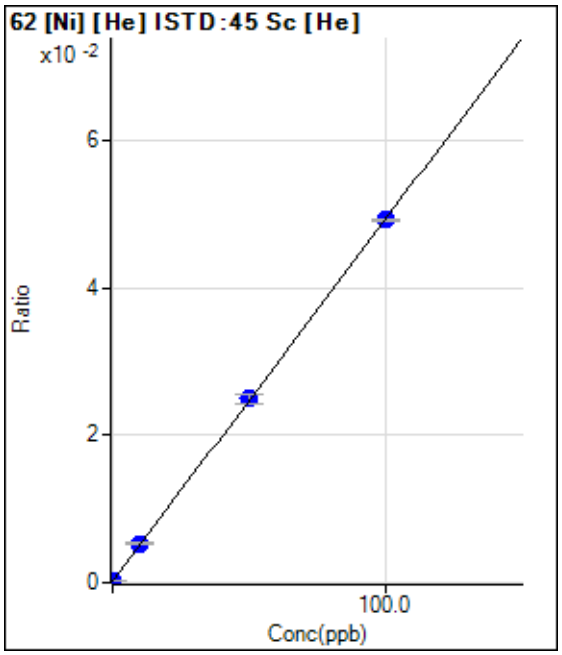
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	345.57	0.0004	P	21.4
2	☐	10.000	10.536	30189.78	0.0348	P	1.0
3	☐	50.000	50.498	144123.34	0.1651	P	4.1
4	☐	100.000	99.698	273788.93	0.3255	P	2.4
5	☐			435.57	0.0005	P	6.1

y = 0.0033 * x + 4.1416E-004
R = 1.0000
DL = 0.08137
BEC = 0.127

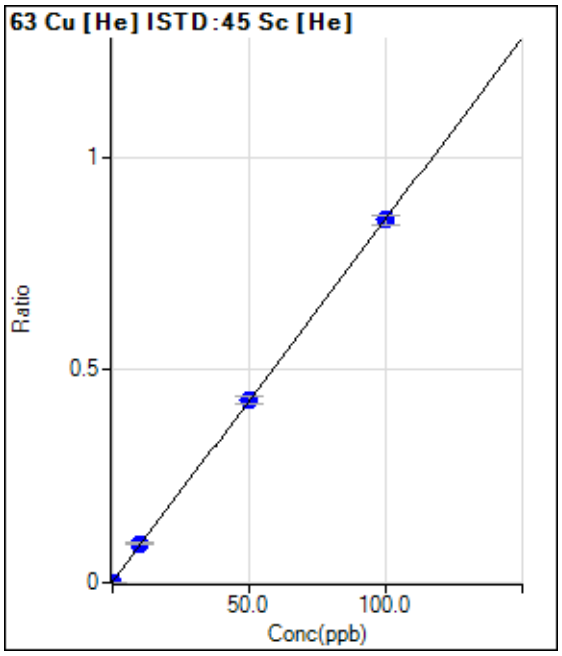
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	201.11	0.0002	P	17.2
2	☐	10.000	10.233	4569.52	0.0053	P	4.2
3	☐	50.000	50.418	21805.61	0.0250	P	4.9
4	☐	100.000	99.768	41396.51	0.0492	P	0.8
5	☐			240.01	0.0003	P	19.6

y = 4.9072E-004 * x + 2.4139E-004
R = 1.0000
DL = 0.2543
BEC = 0.4919

Weight: <None>
Min Conc: <None>

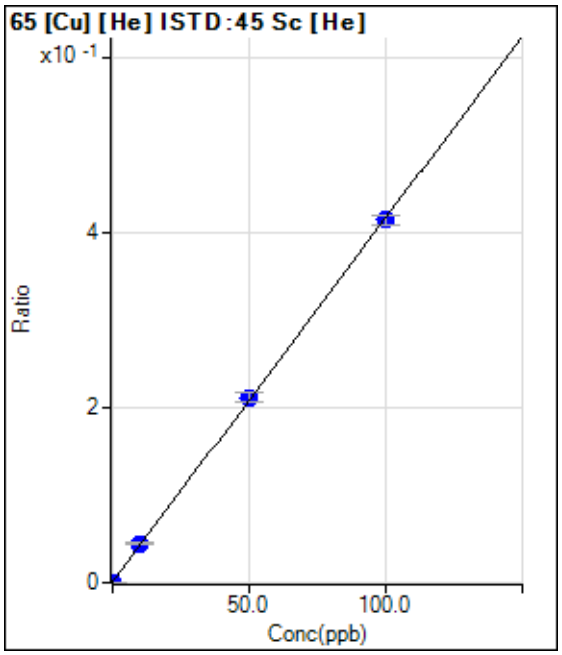


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1573.42	0.0019	P	4.5
2	☐	10.000	10.616	80214.17	0.0924	P	1.1
3	☐	50.000	50.230	375430.71	0.4301	P	4.7
4	☐	100.000	99.823	717325.27	0.8530	P	2.9
5	☐			2084.60	0.0024	P	12.5

y = 0.0085 * x + 0.0019
R = 1.0000
DL = 0.02978
BEC = 0.2214

Weight: <None>
Min Conc: <None>

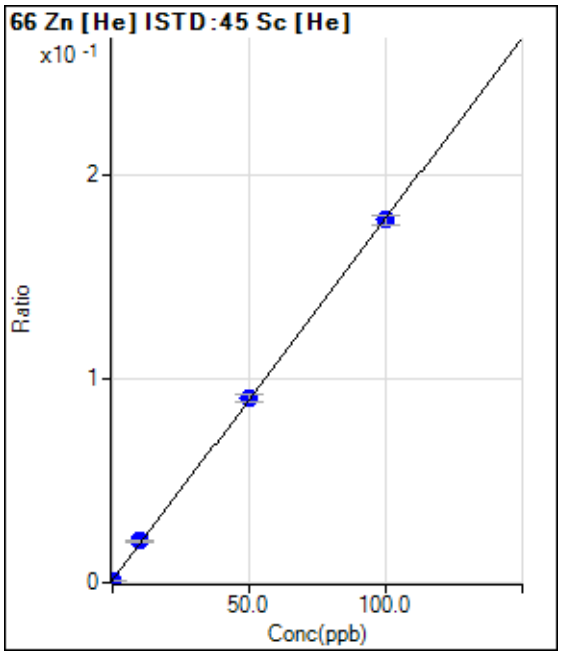
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	705.58	0.0008	P	15.0
2	☐	10.000	10.590	38896.59	0.0448	P	1.6
3	☐	50.000	50.793	184732.71	0.2116	P	4.4
4	☐	100.000	99.545	348141.34	0.4140	P	3.0
5	☐			1001.15	0.0012	P	4.8

y = 0.0042 * x + 8.4673E-004
R = 0.9999
DL = 0.09157
BEC = 0.204

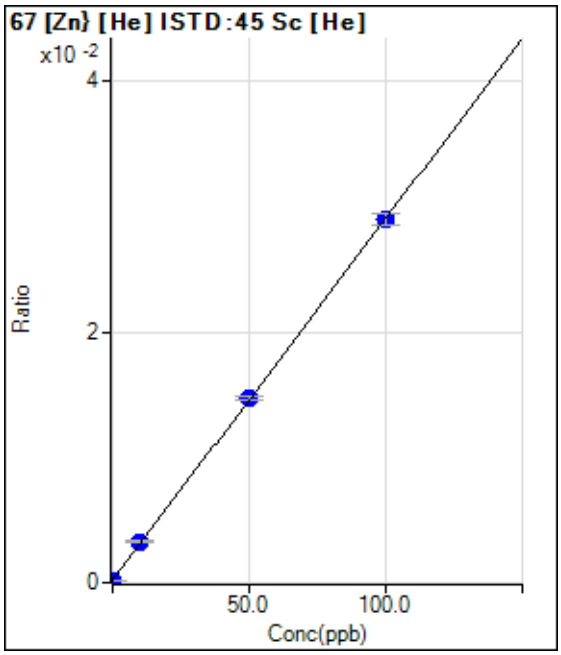
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	963.37	0.0012	P	4.7
2	☐	10.000	10.808	17667.69	0.0203	P	2.0
3	☐	50.000	50.557	79367.51	0.0909	P	4.3
4	☐	100.000	99.641	149775.24	0.1781	P	2.6
5	☐			2600.23	0.0031	P	6.9

y = 0.0018 * x + 0.0012
R = 1.0000
DL = 0.09268
BEC = 0.6507

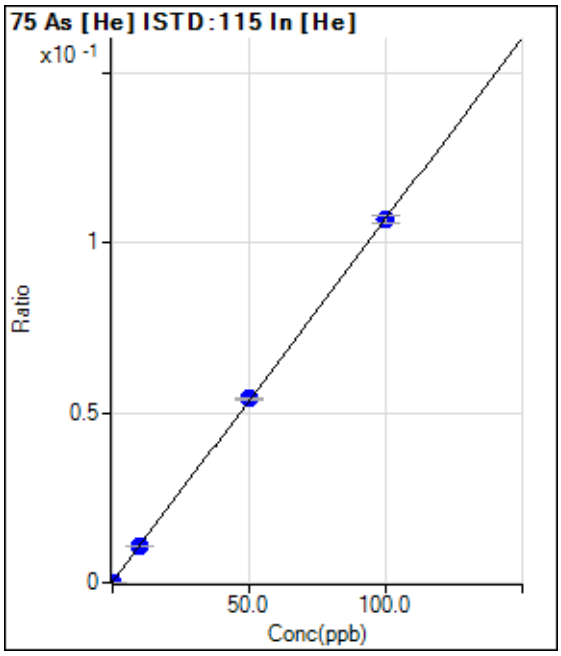
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.23	0.0002	P	22.5
2	☐	10.000	10.647	2822.49	0.0033	P	5.1
3	☐	50.000	50.391	12845.86	0.0147	P	1.9
4	☐	100.000	99.740	24322.24	0.0289	P	3.1
5	☐			398.90	0.0005	P	15.6

y = 2.8815E-004 * x + 1.8260E-004
R = 1.0000
DL = 0.4284
BEC = 0.6337

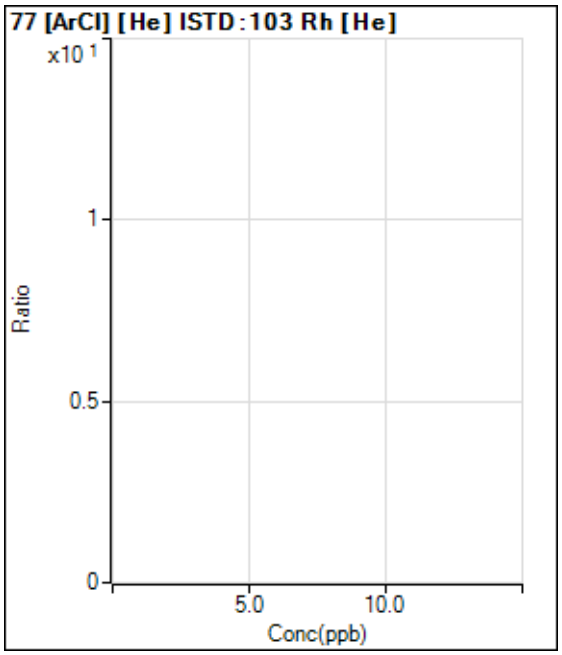
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	265.65	0.0002	P	2.3
2	☐	10.000	10.025	12573.08	0.0109	P	0.9
3	☐	50.000	50.409	60178.37	0.0540	P	0.5
4	☐	100.000	99.793	115946.55	0.1067	P	2.0
5	☐			232.04	0.0002	P	17.4

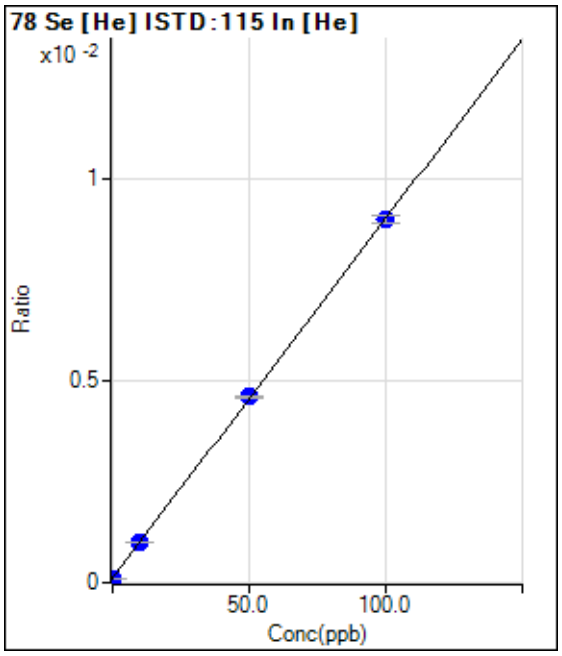
y = 0.0011 * x + 2.3240E-004
R = 1.0000
DL = 0.01488
BEC = 0.2177

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			48.15	0.0000	P	47.4
2	☐			444.47	0.0002	P	11.5
3	☐			1555.71	0.0008	P	13.2
4	☐			2967.04	0.0016	P	6.7
5	☐			133.38	0.0001	P	73.8

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.36	0.0001	P	7.7
2	☐	10.000	10.048	1155.43	0.0010	P	1.5
3	☐	50.000	50.524	5122.30	0.0046	P	0.7
4	☐	100.000	99.733	9743.29	0.0090	P	2.2
5	☐			128.69	0.0001	P	8.9

y = 8.8810E-005 * x + 1.1226E-004

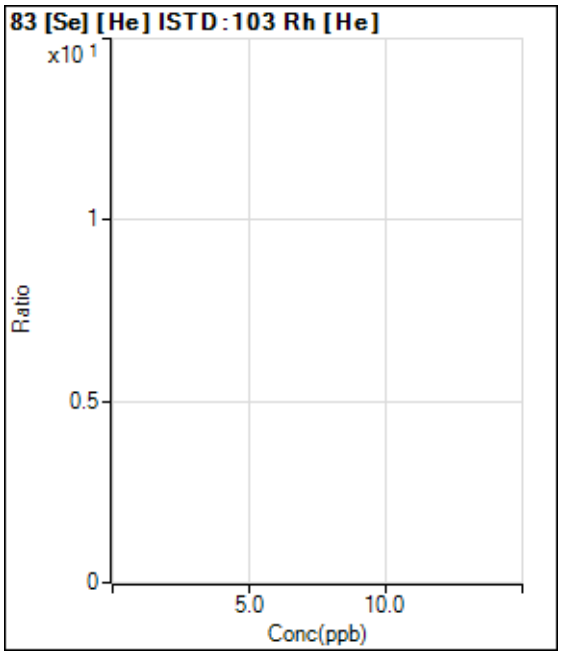
R = 1.0000

DL = 0.2925

BEC = 1.264

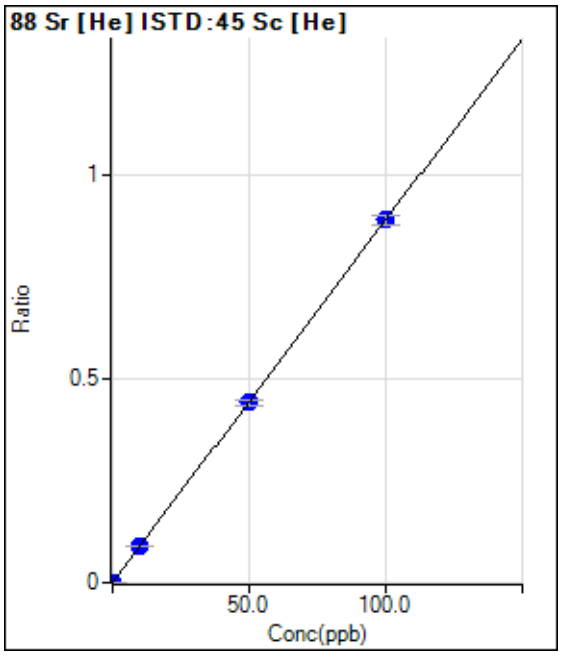
Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			281.48	0.0001	P	6.6
2	☐			276.43	0.0001	P	7.4
3	☐			269.03	0.0001	P	10.0
4	☐			267.18	0.0001	P	7.4
5	☐			295.29	0.0002	P	1.0

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.22	0.0002	P	12.1
2	☐	10.000	10.230	79273.70	0.0913	P	0.8
3	☐	50.000	49.745	387084.87	0.4433	P	3.4
4	☐	100.000	100.105	750160.85	0.8920	P	2.9
5	☐			206.67	0.0002	P	9.7

y = 0.0089 * x + 1.7063E-004

R = 1.0000

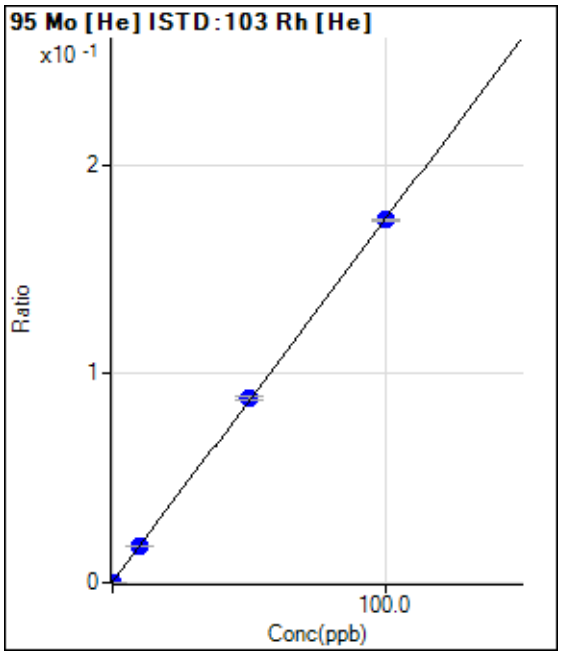
DL = 0.006927

BEC = 0.01915

Weight: <None>

Min Conc: <None>

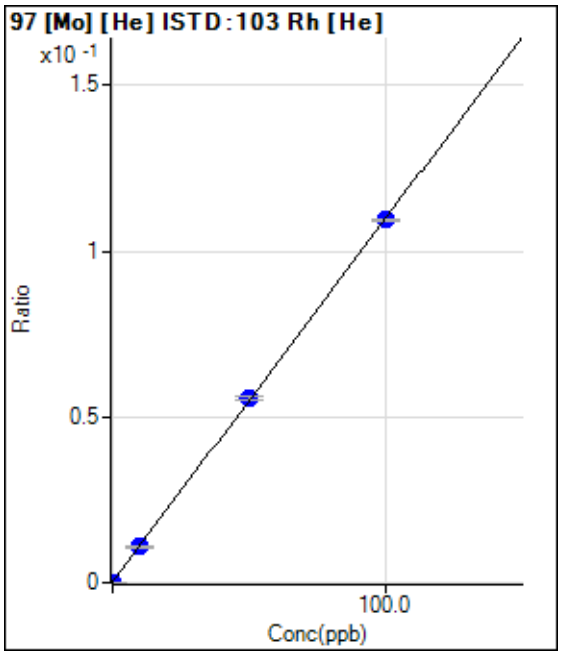
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	827.81	0.0004	P	10.6
2	☐	10.000	9.744	33755.87	0.0174	P	2.3
3	☐	50.000	50.549	166737.94	0.0883	P	1.6
4	☐			3009.19	0.0016	P	22.4
5	☐	100.000	99.751	334871.59	0.1738	P	0.3

y = 0.0017 * x + 4.3308E-004
R = 1.0000
DL = 0.0792
BEC = 0.2492

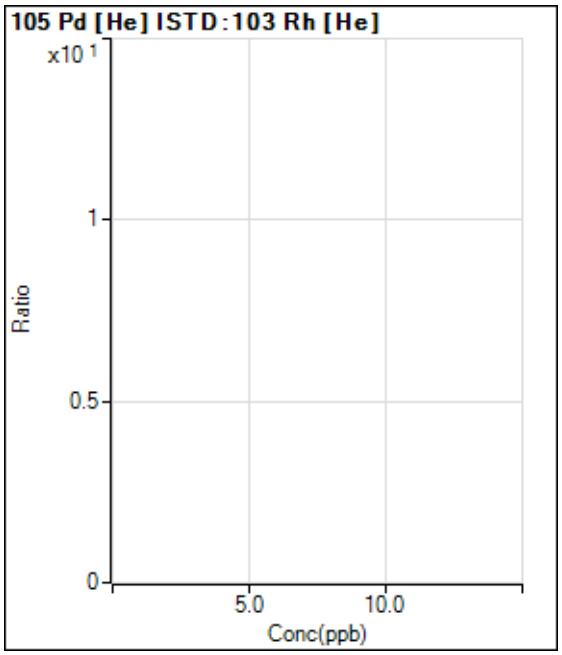
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	455.59	0.0002	P	24.9
2	☐	10.000	9.691	21106.37	0.0109	P	6.8
3	☐	50.000	50.777	105537.91	0.0559	P	1.9
4	☐			1866.85	0.0010	P	33.4
5	☐	100.000	99.642	210848.32	0.1094	P	0.7

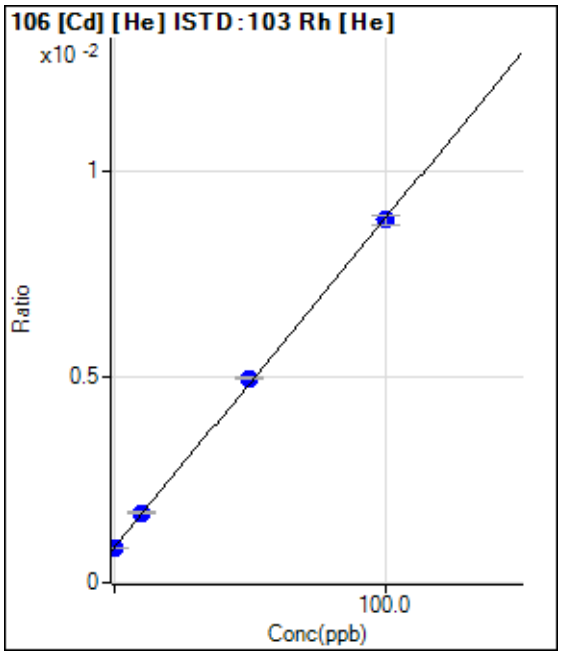
y = 0.0011 * x + 2.3795E-004
R = 0.9999
DL = 0.1621
BEC = 0.2172

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1611.28	0.0008	P	4.6
2	☐			1537.18	0.0008	P	8.0
3	☐			1829.82	0.0010	P	5.7
4	☐			1948.36	0.0011	P	6.5
5	☐			1537.19	0.0008	P	6.5

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1619.95	0.0008	P	0.9
2	☐	10.000	10.679	3316.15	0.0017	P	2.0
3	☐	50.000	51.343	9400.87	0.0050	P	0.6
4	☐	100.000	99.260	16191.71	0.0088	P	2.8
5	☐			1691.67	0.0009	P	3.4

y = 8.0440E-005 * x + 8.4682E-004

R = 0.9998

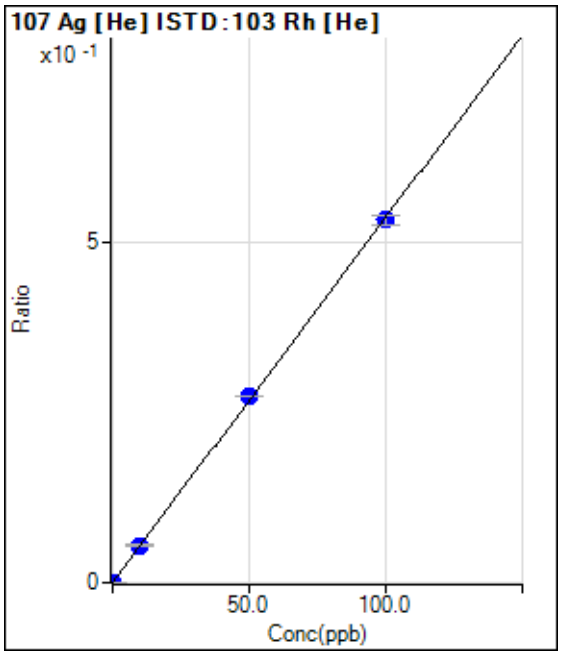
DL = 0.2828

BEC = 10.53

Weight: <None>

Min Conc: <None>

Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	48.2
2	☐	10.000	10.226	106750.83	0.0549	P	1.8
3	☐	50.000	51.071	517964.32	0.2742	P	0.8
4	☐	100.000	99.442	978934.37	0.5339	P	2.4
5	☐			136.67	0.0001	P	46.5

y = 0.0054 * x + 1.1047E-005

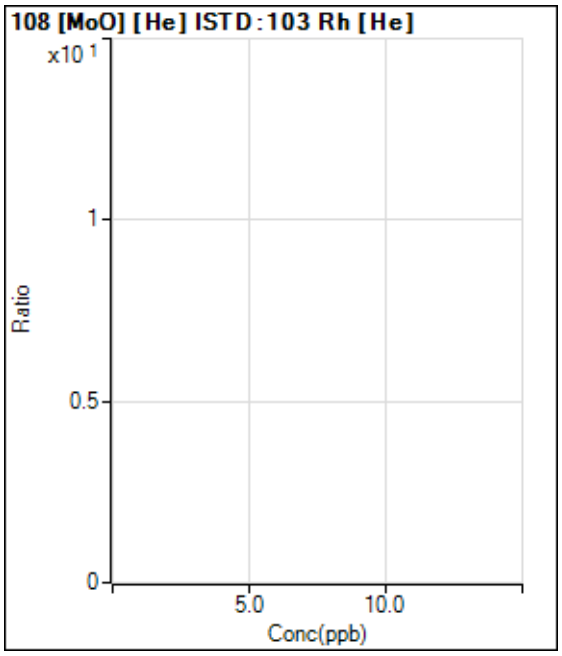
R = 0.9999

DL = 0.002976

BEC = 0.002058

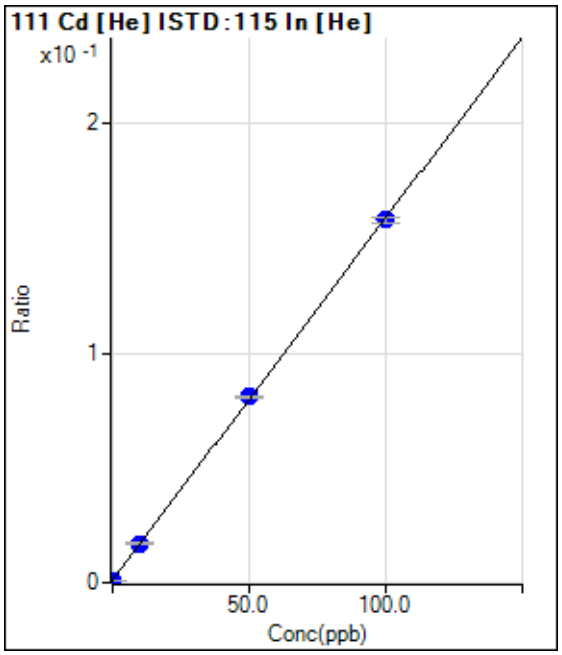
Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			14.81	0.0000	P	86.6
2	☐			1274.20	0.0007	P	21.1
3	☐			6134.70	0.0032	P	7.2
4	☐			10633.38	0.0058	P	3.0
5	☐			111.12	0.0001	P	45.6

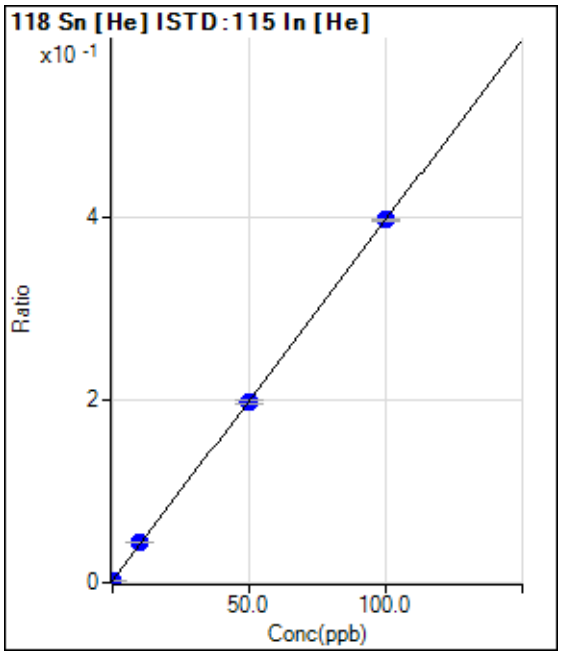
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1227.46	0.0011	P	1.3
2	☐	10.000	10.177	19686.96	0.0171	P	3.5
3	☐	50.000	50.815	90412.57	0.0812	P	1.0
4	☐	100.000	99.575	171685.78	0.1580	P	1.7
5	☐			1307.55	0.0012	P	6.4

y = 0.0016 * x + 0.0011
R = 0.9999
DL = 0.02608
BEC = 0.6813

Weight: <None>
Min Conc: <None>

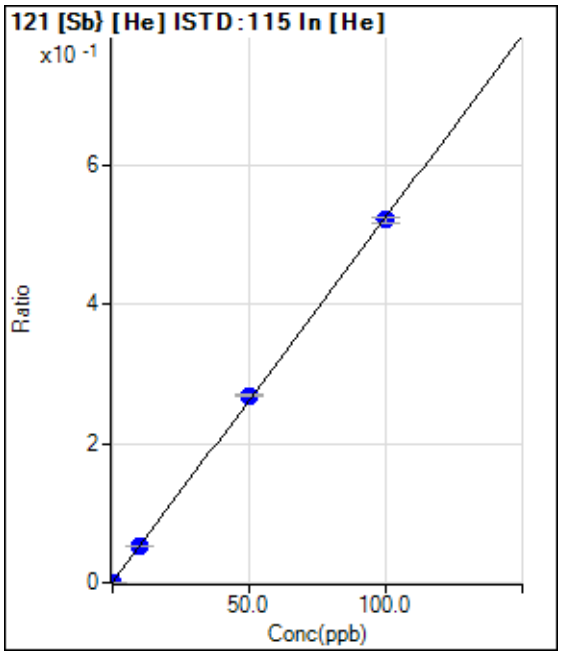


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2133.58	0.0019	P	6.9
2	☐	10.000	10.684	50613.31	0.0440	P	2.0
3	☐	50.000	49.695	220388.28	0.1979	P	1.7
4	☐			3526.50	0.0032	P	5.8
5	☐	100.000	100.084	450144.44	0.3966	P	0.6

y = 0.0039 * x + 0.0019
R = 1.0000
DL = 0.09804
BEC = 0.4734

Weight: <None>
Min Conc: <None>

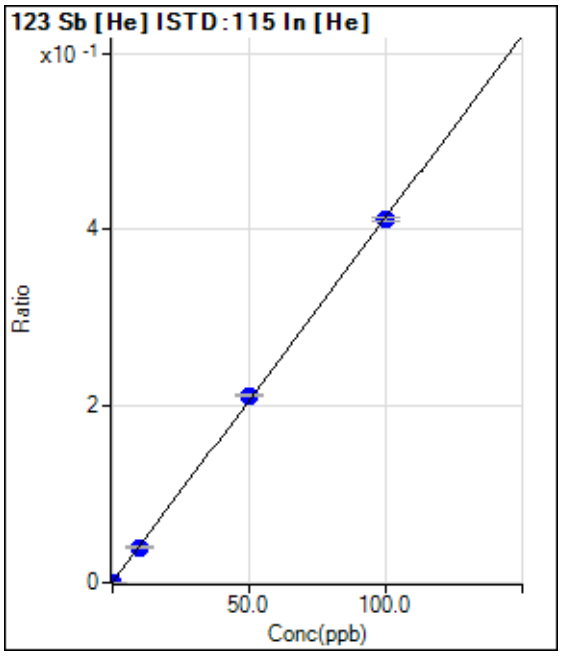
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	395.57	0.0003	P	6.3
2	☐	10.000	9.759	59240.53	0.0515	P	0.7
3	☐	50.000	51.270	299764.93	0.2691	P	0.9
4	☐			3828.26	0.0035	P	18.9
5	☐	100.000	99.389	591754.21	0.5214	P	1.3

y = 0.0052 * x + 3.4619E-004
R = 0.9998
DL = 0.01247
BEC = 0.06603

Weight: <None>
Min Conc: <None>

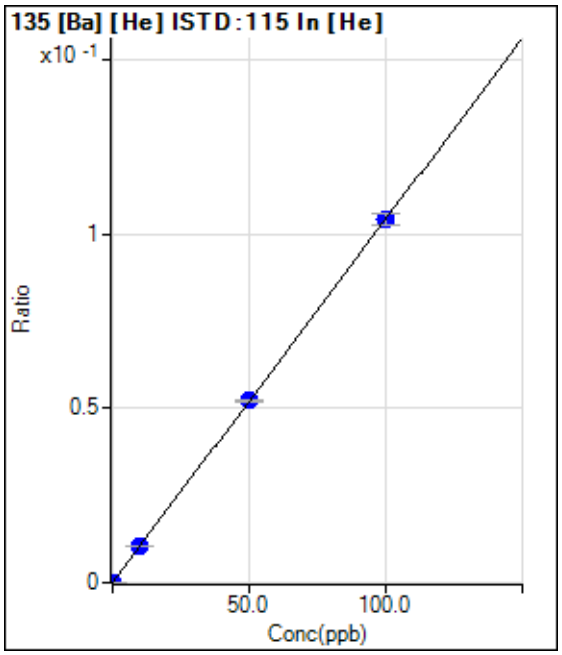


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	306.67	0.0003	P	1.8
2	☐	10.000	9.688	46332.50	0.0403	P	1.4
3	☐	50.000	51.220	235908.33	0.2118	P	0.9
4	☐			3025.88	0.0028	P	20.2
5	☐	100.000	99.421	466336.01	0.4109	P	1.0

y = 0.0041 * x + 2.6833E-004
R = 0.9998
DL = 0.003511
BEC = 0.06497

Weight: <None>
Min Conc: <None>

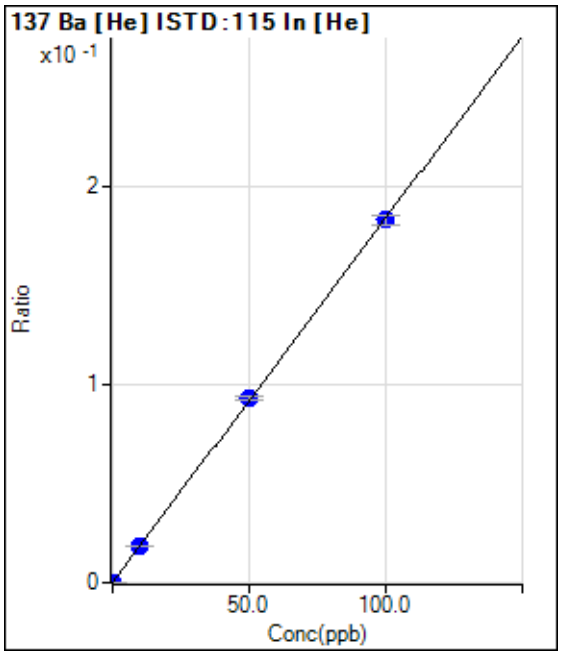
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	18.5
2	☐	10.000	9.841	11815.35	0.0103	P	1.0
3	☐	50.000	50.190	58231.56	0.0523	P	0.7
4	☐	100.000	99.921	113036.65	0.1041	P	3.0
5	☐			54.44	0.0000	P	32.2

y = 0.0010 * x + 2.6228E-005
R = 1.0000
DL = 0.01398
BEC = 0.02519

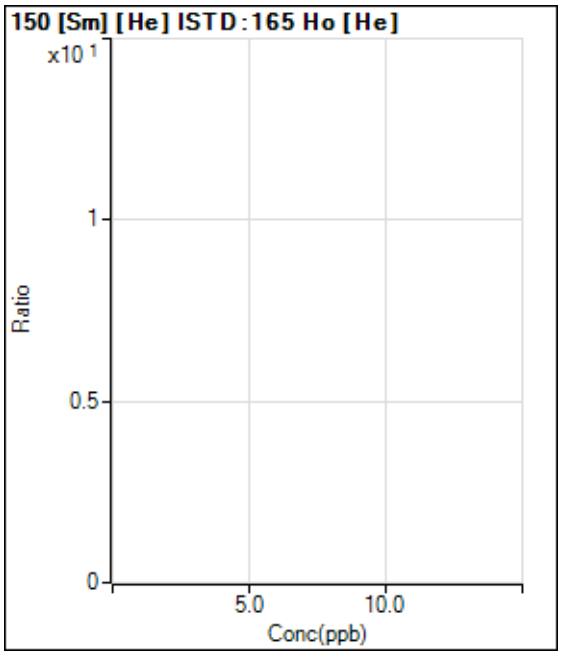
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	24.7
2	☐	10.000	10.129	21488.19	0.0187	P	0.9
3	☐	50.000	50.755	104093.42	0.0935	P	1.6
4	☐	100.000	99.610	199206.47	0.1834	P	3.0
5	☐			132.23	0.0001	P	25.4

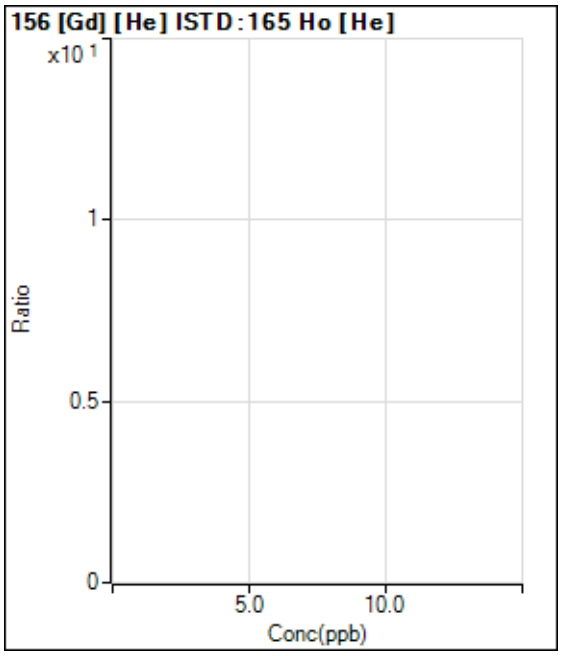
y = 0.0018 * x + 3.8926E-005
R = 1.0000
DL = 0.0157
BEC = 0.02115

Weight: <None>
Min Conc: <None>



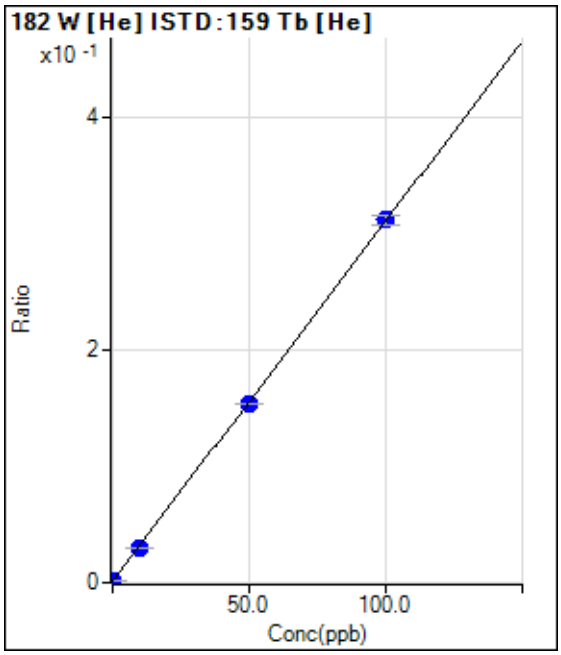
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33	0.0000	P	35.5
2	☐			12.67	0.0000	P	55.0
3	☐			10.67	0.0000	P	47.2
4	☐			20.00	0.0000	P	17.7
5	☐			4.67	0.0000	P	64.7

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			17.33	0.0000	P	27.6
2	☐			19.33	0.0000	P	42.5
3	☐			25.33	0.0000	P	43.3
4	☐			20.00	0.0000	P	27.0
5	☐			17.33	0.0000	P	18.1

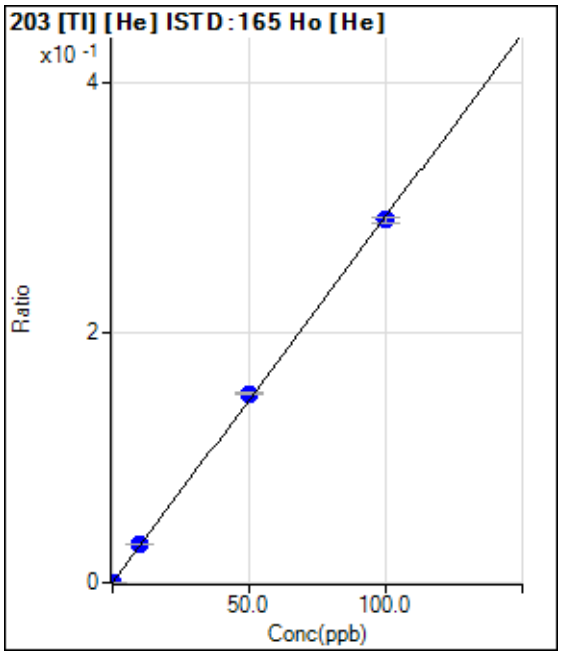
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2896.69	0.0011	P	8.0
2	☐	10.000	9.375	84095.95	0.0301	P	1.4
3	☐	50.000	49.283	427384.85	0.1537	P	0.8
4	☐			11367.60	0.0042	P	17.6
5	☐	100.000	100.421	860114.55	0.3121	P	2.4

y = 0.0031 * x + 0.0011
R = 0.9999
DL = 0.08232
BEC = 0.3415

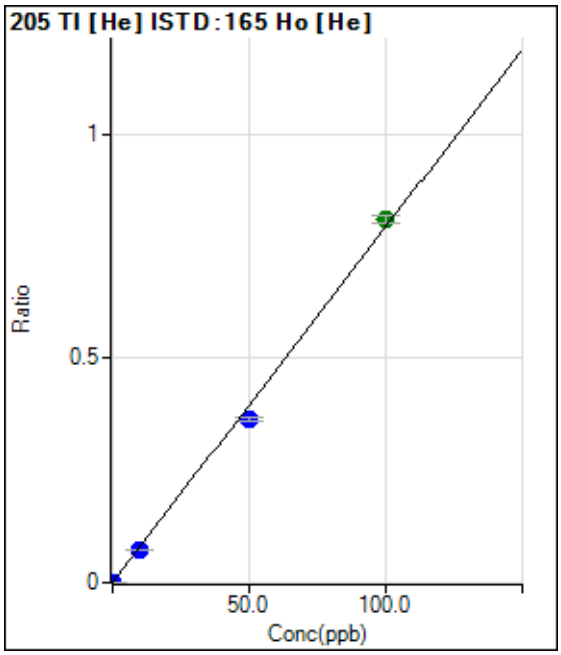
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.93	0.0000	P	26.1
2	☐	10.000	10.391	85588.55	0.0305	P	1.7
3	☐	50.000	51.667	421424.38	0.1514	P	0.7
4	☐	100.000	99.128	797961.54	0.2904	P	1.5
5	☐			1111.21	0.0004	P	19.3

y = 0.0029 * x + 4.5132E-005
R = 0.9998
DL = 0.01205
BEC = 0.01541

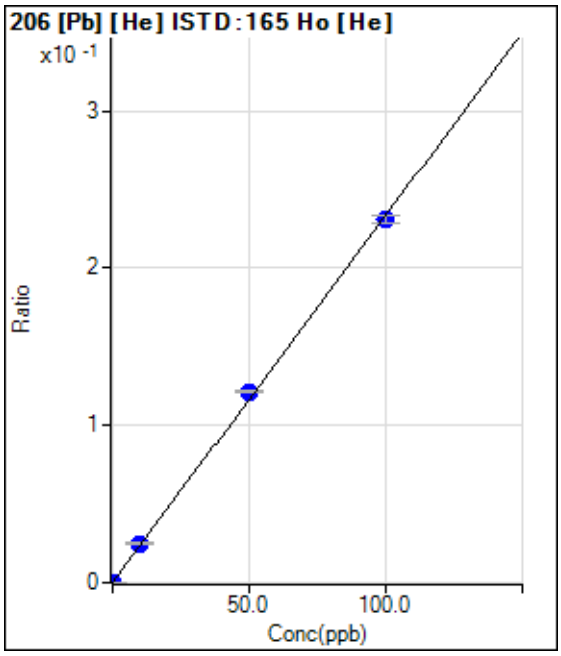
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250.01	0.0001	P	8.3
2	☐	10.000	9.256	206029.70	0.0734	P	2.0
3	☐	50.000	45.990	1013996.31	0.3643	P	1.3
4	☐	100.000	102.080	2221270.26	0.8084	A	2.1
5	☐			1572.32	0.0006	P	19.6

y = 0.0079 * x + 8.9713E-005
R = 0.9987
DL = 0.002816
BEC = 0.01133

Weight: <None>
Min Conc: <None>

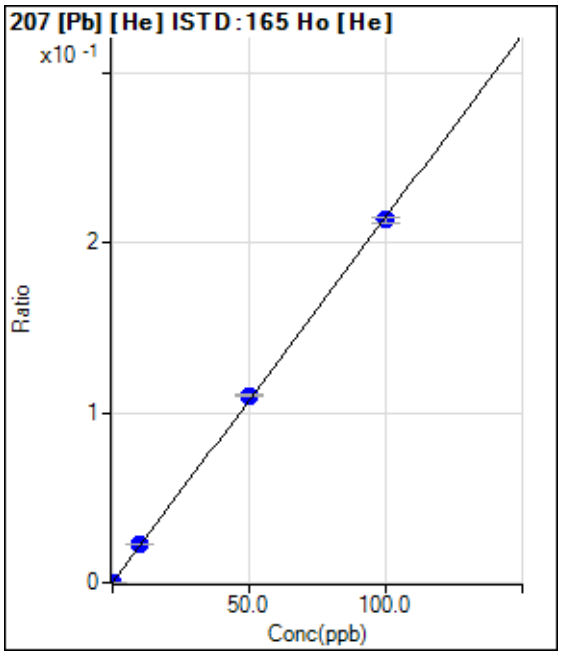


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0001	P	25.9
2	☐	10.000	10.615	69627.93	0.0248	P	3.4
3	☐	50.000	52.092	338148.82	0.1215	P	0.4
4	☐	100.000	98.892	633458.26	0.2306	P	2.3
5	☐			383.34	0.0001	P	8.6

y = 0.0023 * x + 5.8995E-005
R = 0.9996
DL = 0.01969
BEC = 0.02531

Weight: <None>
Min Conc: <None>

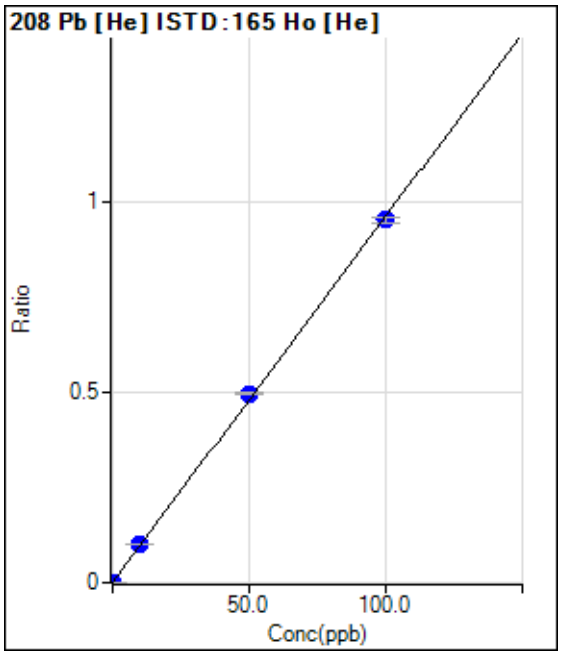
Calibration for 051_Blk.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0001	P	2.2
2	☐	10.000	10.516	63643.14	0.0227	P	1.4
3	☐	50.000	51.230	306790.70	0.1102	P	1.1
4	☐	100.000	99.333	586990.34	0.2136	P	1.9
5	☐			306.67	0.0001	P	20.2

y = 0.0022 * x + 5.6264E-005
R = 0.9999
DL = 0.001705
BEC = 0.02617

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	724.46	0.0003	P	8.5
2	☐	10.000	10.556	284840.49	0.1015	P	2.3
3	☐	50.000	51.636	1378666.67	0.4953	P	0.9
4	☐	100.000	99.126	2611648.13	0.9505	P	1.8
5	☐			1460.05	0.0005	P	9.1

y = 0.0096 * x + 2.6019E-004
R = 0.9998
DL = 0.006949
BEC = 0.02714

Weight: <None>
Min Conc: <None>

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	001CALB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:04:22-04:00
Sample Type	CalBlk
Level	
Dilution	1
Comment	6020/200.8

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	244	6.70
B	11	45	2	NoGas	20030	0.02
Na	23	45	1	He	44585	0.00
Mg	24	45	1	He	2430	0.42
Al	27	45	1	He	1137	0.94
K	39	45	1	He	76378	0.00
Ca	44	45	1	He	415	2.87
Ti	47	45	1	He	28	99.82
V	51	45	1	He	699	9.45
Cr	52	45	1	He	3868	0.11
Mn	55	45	1	He	440	4.22
Fe	56	45	1	He	24523	0.10
Co	59	45	1	He	161	7.07
Ni	60	45	1	He	316	2.37
Cu	63	45	1	He	1696	0.14
Zn	66	45	1	He	877	1.02
As	75	115	1	He	258	1.42
Se	78	115	1	He	132	2.33
Sr	88	45	1	He	122	13.63
Mo	95	103	1	He	7970	0.46
Ag	107	103	1	He	11	867.99
Cd	111	115	1	He	1261	0.39
Sn	118	115	1	He	2182	0.20
Sb	123	115	1	He	392	4.47
Ba	137	115	1	He	43	93.92
W	182	159	1	He	3104	0.12
Tl	205	165	1	He	239	5.88
Pb	208	165	1	He	670	1.27

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	1953488	1.01
Sc	45	1	He	838302	0.34
Sc	45	2	NoGas	7808645	0.59
Rh	103	1	He	1943703	0.44
In	115	1	He	1145125	0.84
Tb	159	1	He	2755563	1.08
Ho	165	1	He	2753615	0.68
Bi	209	1	He	1891982	0.11

Calibration Blank Report

Sample Table

Sample Name	ICIS
Data File Name	002CALB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:08:14-04:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	126	31.60
B	11	45	2	NoGas	18525	0.02
Na	23	45	1	He	43894	0.00
Mg	24	45	1	He	2267	0.72
Al	27	45	1	He	1038	0.20
K	39	45	1	He	77215	0.00
Ca	44	45	1	He	419	1.91
Ti	47	45	1	He	17	120.06
V	51	45	1	He	409	42.83
Cr	52	45	1	He	3805	0.09
Mn	55	45	1	He	397	2.41
Fe	56	45	1	He	13632	0.00
Co	59	45	1	He	139	14.70
Ni	60	45	1	He	346	6.37
Cu	63	45	1	He	1573	0.26
Zn	66	45	1	He	963	0.54
As	75	115	1	He	266	1.13
Se	78	115	1	He	128	6.54
Sr	88	45	1	He	142	8.29
Mo	95	103	1	He	828	1.14
Ag	107	103	1	He	21	228.51
Cd	111	115	1	He	1227	0.07
Sn	118	115	1	He	2134	0.30
Sb	123	115	1	He	307	0.35
Ba	137	115	1	He	44	54.24
W	182	159	1	He	2897	0.31
Tl	205	165	1	He	250	3.85
Pb	208	165	1	He	724	1.16

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	1981019	0.64
Sc	45	1	He	833672	0.61
Sc	45	2	NoGas	7685379	1.30
Rh	103	1	He	1912940	1.13
In	115	1	He	1142978	0.73
Tb	159	1	He	2736958	1.08
Ho	165	1	He	2784764	1.48
Bi	209	1	He	1889571	0.86

Calibration Standard Report

Sample Table

Sample Name	STD1-1906323
Data File Name	003CALS.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:12:07-04:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	64140	0.01
B	11	2	NoGas	62762	0.00
Na	23	1	He	8526099	0.00
Mg	24	1	He	4899877	0.00
Al	27	1	He	29255	0.00
K	39	1	He	5374041	0.00
Ca	44	1	He	266959	0.00
Ti	47	1	He	3047	0.22
V	51	1	He	74850	0.00
Cr	52	1	He	91379	0.00
Mn	55	1	He	326805	0.00
Fe	56	1	He	19780658	0.00
Co	59	1	He	120352	0.00
Ni	60	1	He	30190	0.01
Cu	63	1	He	80214	0.00
Zn	66	1	He	17668	0.02
As	75	1	He	12573	0.01
Se	78	1	He	1155	0.15
Sr	88	1	He	79274	0.00
Mo	95	1	He	33756	0.01
Ag	107	1	He	106751	0.00
Cd	111	1	He	19687	0.02
Sn	118	1	He	50613	0.00
Sb	123	1	He	46333	0.00
Ba	137	1	He	21488	0.00
W	182	1	He	84096	0.00
Tl	205	1	He	206030	0.00
Pb	208	1	He	284840	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1993816	0.67	1981019	100.65	30	120	
Sc	45	1	He	868197	1.02	833672	104.14	30	120	
Sc	45	2	NoGas	7901464	1.28	7685379	102.81	30	120	
Rh	103	1	He	1943977	0.49	1912940	101.62	30	120	
In	115	1	He	1150119	0.26	1142978	100.62	30	120	
Tb	159	1	He	2794727	2.20	2736958	102.11	30	120	
Ho	165	1	He	2807981	0.92	2784764	100.83	30	120	
Bi	209	1	He	1940335	1.43	1889571	102.69	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD2-1904110
Data File Name	004CALS.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:15:59-04:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	320260	0.00
B	11	2	NoGas	219102	0.00
Na	23	1	He	41948085	0.00
Mg	24	1	He	24084000	0.00
Al	27	1	He	140775	0.00
K	39	1	He	26040455	0.00
Ca	44	1	He	1320653	0.00
Ti	47	1	He	15262	0.02
V	51	1	He	380979	0.00
Cr	52	1	He	429143	0.00
Mn	55	1	He	1658700	0.00
Fe	56	1	He	97777032	0.00
Co	59	1	He	585312	0.00
Ni	60	1	He	144123	0.00
Cu	63	1	He	375431	0.00
Zn	66	1	He	79368	0.00
As	75	1	He	60178	0.00
Se	78	1	He	5122	0.00
Sr	88	1	He	387085	0.00
Mo	95	1	He	166738	0.00
Ag	107	1	He	517964	0.00
Cd	111	1	He	90413	0.00
Sn	118	1	He	220388	0.00
Sb	123	1	He	235908	0.00
Ba	137	1	He	104093	0.00
W	182	1	He	427385	0.00
Tl	205	1	He	1013996	0.00
Pb	208	1	He	1378667	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1967731	1.20	1981019	99.33	30	120	
Sc	45	1	He	874034	4.64	833672	104.84	30	120	
Sc	45	2	NoGas	7735145	1.30	7685379	100.65	30	120	
Rh	103	1	He	1888917	0.06	1912940	98.74	30	120	
In	115	1	He	1113751	0.62	1142978	97.44	30	120	
Tb	159	1	He	2780567	0.87	2736958	101.59	30	120	
Ho	165	1	He	2783618	0.18	2784764	99.96	30	120	
Bi	209	1	He	1870165	1.19	1889571	98.97	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD3-1906333
Data File Name	005CALS.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:19:47-04:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	638220	0.00
B	11	2	NoGas	24947	0.01
Na	23	1	He	80863052	0.00
Mg	24	1	He	46403969	0.00
Al	27	1	He	271150	0.00
K	39	1	He	50557624	0.00
Ca	44	1	He	2612329	0.00
Ti	47	1	He	44	107.17
V	51	1	He	738214	0.00
Cr	52	1	He	826368	0.00
Mn	55	1	He	3154463	0.00
Fe	56	1	He	189866930	0.00
Co	59	1	He	1113711	0.00
Ni	60	1	He	273789	0.00
Cu	63	1	He	717325	0.00
Zn	66	1	He	149775	0.00
As	75	1	He	115947	0.00
Se	78	1	He	9743	0.01
Sr	88	1	He	750161	0.00
Mo	95	1	He	3009	0.71
Ag	107	1	He	978934	0.00
Cd	111	1	He	171686	0.00
Sn	118	1	He	3526	0.14
Sb	123	1	He	3026	0.64
Ba	137	1	He	199206	0.00
W	182	1	He	11368	0.15
Tl	205	1	He	2221270	0.00
Pb	208	1	He	2611648	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1953766	0.91	1981019	98.62	30	120	
Sc	45	1	He	841547	3.55	833672	100.94	30	120	
Sc	45	2	NoGas	7721889	0.61	7685379	100.48	30	120	
Rh	103	1	He	1833832	1.18	1912940	95.86	30	120	
In	115	1	He	1086405	0.91	1142978	95.05	30	120	
Tb	159	1	He	2723884	0.68	2736958	99.52	30	120	
Ho	165	1	He	2747964	1.66	2784764	98.68	30	120	
Bi	209	1	He	1814745	1.85	1889571	96.04	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD4-1906536
Data File Name	006CALS.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:23:34-04:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	526	4.66
B	11	2	NoGas	379459	0.00
Na	23	1	He	62083	0.01
Mg	24	1	He	7354	0.18
Al	27	1	He	2088	0.25
K	39	1	He	86855	0.00
Ca	44	1	He	1384	0.73
Ti	47	1	He	30184	0.00
V	51	1	He	416	42.39
Cr	52	1	He	3807	0.05
Mn	55	1	He	854	1.06
Fe	56	1	He	211673	0.01
Co	59	1	He	297	2.62
Ni	60	1	He	436	2.04
Cu	63	1	He	2085	0.58
Zn	66	1	He	2600	0.17
As	75	1	He	232	7.79
Se	78	1	He	129	7.45
Sr	88	1	He	207	4.13
Mo	95	1	He	334872	0.00
Ag	107	1	He	137	33.91
Cd	111	1	He	1308	0.50
Sn	118	1	He	450144	0.00
Sb	123	1	He	466336	0.00
Ba	137	1	He	132	19.56
W	182	1	He	860115	0.00
Tl	205	1	He	1572	1.29
Pb	208	1	He	1460	0.59

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1962427	1.09	1981019	99.06	30	120	
Sc	45	1	He	853364	3.99	833672	102.36	30	120	
Sc	45	2	NoGas	7541794	0.57	7685379	98.13	30	120	
Rh	103	1	He	1927103	0.30	1912940	100.74	30	120	
In	115	1	He	1134951	0.78	1142978	99.30	30	120	
Tb	159	1	He	2756654	1.79	2736958	100.72	30	120	
Ho	165	1	He	2751853	0.96	2784764	98.82	30	120	
Bi	209	1	He	1901458	1.16	1889571	100.63	30	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV-1905741
Data File Name	007_ICV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:27:25-04:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	NoGas	41.368	1.336	262875	2.18	40	103.4	89.5	110.5	
B	11	45	NoGas	42.590	0.306	180467	0.60	40	106.5	89.5	110.5	
Na	23	45	He	20638.803	0.617	33629243	1.70	20000	103.2	89.5	110.5	
Mg	24	45	He	20586.800	0.361	19244671	1.66	20000	102.9	89.5	110.5	
Al	27	45	He	210.817	1.002	115628	0.70	200	105.4	89.5	110.5	
K	39	45	He	20396.215	1.816	20771716	0.33	20000	102.0	89.5	110.5	
Ca	44	45	He	19822.780	1.362	1037404	0.34	20000	99.1	89.5	110.5	
Ti	47	45	He	40.711	1.875	12180	1.90	40	101.8	89.5	110.5	
V	51	45	He	40.784	0.589	302890	2.15	40	102.0	89.5	110.5	
Cr	52	45	He	41.431	0.535	346758	1.65	40	103.6	89.5	110.5	
Mn	55	45	He	198.394	1.067	1263898	0.64	200	99.2	89.5	110.5	
Fe	56	45	He	10167.875	1.628	77641686	0.18	10000	101.7	89.5	110.5	
Co	59	45	He	41.234	1.367	463682	0.34	40	103.1	89.5	110.5	
Ni	60	45	He	42.033	1.533	116398	0.22	40	105.1	89.5	110.5	
Cu	63	45	He	42.342	0.627	307259	1.10	40	105.9	89.5	110.5	
Zn	66	45	He	43.571	0.678	66486	1.27	40	108.9	89.5	110.5	
As	75	115	He	40.311	0.628	47885	0.44	40	100.8	89.5	110.5	
Se	78	115	He	41.975	1.266	4251	1.02	40	104.9	89.5	110.5	
Sr	88	45	He	41.528	0.615	313408	1.08	40	103.8	89.5	110.5	
Mo	95	103	He	42.343	0.781	138010	1.31	40	105.9	89.5	110.5	
Ag	107	103	He	41.665	2.119	417106	1.31	40	104.2	89.5	110.5	
Cd	111	115	He	41.460	1.691	73543	1.50	40	103.7	89.5	110.5	
Sn	118	115	He	40.389	0.884	178427	0.76	40	101.0	89.5	110.5	
Sb	123	115	He	37.567	1.343	172074	1.56	40	93.9	89.5	110.5	
Ba	137	115	He	40.980	1.223	83549	0.96	40	102.5	89.5	110.5	
W	182	159	He	39.200	1.675	334513	1.17	40	98.0	89.5	110.5	
Tl	205	165	He	37.173	0.794	810876	1.25	40	92.9	89.5	110.5	
Pb	208	165	He	42.353	1.607	1118803	1.62	40	105.9	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	NoGas	1946281	1.23	1981019	98.25	30	120	
Sc	45	He	846777	1.69	833672	101.57	30	120	
Sc	45	NoGas	7788677	0.53	7685379	101.34	30	120	
Rh	103	He	1864780	1.42	1912940	97.48	30	120	
In	115	He	1107045	0.26	1142978	96.86	30	120	
Tb	159	He	2731417	0.52	2736958	99.80	30	120	
Ho	165	He	2753770	0.57	2784764	98.89	30	120	
Bi	209	He	1878525	1.21	1889571	99.42	30	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	008_ICB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:31:16-04:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Ti	47	1	He	0.017	211.0	21	48.2	20	
W	182	1	He	1.263	10.2	13610	8.3	10	
Ca	44	1	He	1.306	57.1	474	6.9	1000	
Na	23	1	He	6.456	20.5	52913	2.9	400	
Mg	24	1	He	1.722	30.0	3756	11.4	1000	
K	39	1	He	5.635	49.4	80828	2.5	1000	
V	51	1	He	0.015	93.6	506	19.7	2	
Cr	52	1	He	0.009	77.3	3786	0.7	2	
Mn	55	1	He	0.006	66.3	423	4.9	2	
Fe	56	1	He	14.391	31.7	118656	27.0	50	
Co	59	1	He	0.004	62.7	183	16.2	1	
Ni	60	1	He	0.005	125.1	351	6.0	2	
Cu	63	1	He	0.007	181.2	1587	5.3	2	
Zn	66	1	He	-0.034	-216.2	891	11.7	20	
As	75	1	He	-0.025	-47.1	235	6.3	2	
Se	78	1	He	-0.060	-77.8	122	3.7	2	
Sr	88	1	He	0.002	272.6	151	22.1	10	
Mo	95	1	He	0.738	20.5	3343	14.6	2	
Ag	107	1	He	0.003	72.1	50	40.5	0.2	
Cd	111	1	He	0.047	24.8	1312	1.5	0.2	
Ba	137	1	He	0.002	677.6	48	46.5	5	
Sn	118	1	He	0.397	8.9	3925	3.9	10	
Tl	205	1	He	0.029	19.6	879	13.6	0.5	
Pb	208	1	He	0.012	35.9	1050	10.2	1	
Al	27	1	He	-0.204	-29.8	907	4.5	50	
Sb	123	1	He	1.234	20.1	6129	19.0	1	ICB Failed
B	11	2	NoGas	0.947	5.7	22344	1.3	20	
Be	9	2	NoGas	0.023	31.6	278	18.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2001257	1.47	1981019	101.02	30	120	
Sc	45	1	He	813532	1.05	833672	97.58	30	120	
Sc	45	2	NoGas	7777602	0.73	7685379	101.20	30	120	
Rh	103	1	He	1949357	1.00	1912940	101.90	30	120	
In	115	1	He	1142888	0.23	1142978	99.99	30	120	

Tb	159	1	He	2738293	0.56	2736958	100.05	30	120	
Ho	165	1	He	2768026	1.51	2784764	99.40	30	120	
Bi	209	1	He	1879935	0.74	1889571	99.49	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1912660
Data File Name	009CRIA.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:35:05-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.775	0.775	5.007	5249	4.69	1	77.5	69.5	130.5	
B	11	2	NoGas	17.392	17.392	0.270	86411	0.27	20	87.0	69.5	130.5	
Na	23	1	He	1068.961	1068.961	0.584	1784995	0.80	1000	106.9	69.5	130.5	
Mg	24	1	He	1078.325	1078.325	0.631	1010762	1.27	1000	107.8	69.5	130.5	
Al	27	1	He	52.682	52.682	1.077	29703	0.60	50	105.4	69.5	130.5	
K	39	1	He	1054.917	1054.917	0.300	1149554	1.17	1000	105.5	69.5	130.5	
Ca	44	1	He	1026.448	1026.448	0.742	54157	0.85	1000	102.6	69.5	130.5	
Ti	47	1	He	9.940	9.940	5.236	2989	5.86	10	99.4	69.5	130.5	
V	51	1	He	5.244	5.244	0.973	39323	0.26	5	104.9	69.5	130.5	
Cr	52	1	He	2.124	2.124	1.978	21452	1.44	2	106.2	69.5	130.5	
Mn	55	1	He	5.168	5.168	1.797	33343	2.74	5	103.4	69.5	130.5	
Fe	56	1	He	104.063	104.063	0.779	808879	0.85	100	104.1	69.5	130.5	
Co	59	1	He	1.074	1.074	2.566	12219	1.66	1	107.4	69.5	130.5	
Ni	60	1	He	2.180	2.180	2.984	6372	2.87	2	109.0	69.5	130.5	
Cu	63	1	He	2.140	2.140	1.635	17053	0.97	2	107.0	69.5	130.5	
Zn	66	1	He	21.975	21.975	1.888	34036	1.71	20	109.9	69.5	130.5	
As	75	1	He	4.995	4.995	1.516	6415	1.18	5	99.9	69.5	130.5	
Se	78	1	He	5.052	5.052	3.064	647	2.27	5	101.0	69.5	130.5	
Sr	88	1	He	10.417	10.417	0.912	78771	1.31	10	104.2	69.5	130.5	
Mo	95	1	He	10.251	10.251	1.186	35496	1.81	10	102.5	69.5	130.5	
Ag	107	1	He	1.060	1.060	3.723	11091	2.70	1	106.0	69.5	130.5	
Cd	111	1	He	1.030	1.030	4.161	3111	2.71	1	103.0	69.5	130.5	
Sn	118	1	He	9.732	9.732	3.825	46413	3.37	10	97.3	69.5	130.5	
Sb	123	1	He	2.343	2.343	1.238	11470	1.12	2	117.2	69.5	130.5	
Ba	137	1	He	4.979	4.979	2.405	10613	2.09	5	99.6	69.5	130.5	
W	182	1	He	10.004	10.004	3.180	87935	2.91	10	100.0	69.5	130.5	
Tl	205	1	He	1.857	1.857	1.531	41366	1.42	2	92.9	69.5	130.5	
Pb	208	1	He	1.084	1.084	3.418	29786	3.26	1	108.4	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2025960	0.97	1981019	102.27	30	120	
Sc	45	1	He	847229	0.96	833672	101.63	30	120	
Sc	45	2	NoGas	7935951	0.33	7685379	103.26	30	120	
Rh	103	1	He	1945305	1.22	1912940	101.69	30	120	
In	115	1	He	1153120	0.33	1142978	100.89	30	120	
Tb	159	1	He	2744274	0.18	2736958	100.27	30	120	
Ho	165	1	He	2795674	0.32	2784764	100.39	30	120	
Bi	209	1	He	1902086	2.22	1889571	100.66	30	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA-1912681
Data File Name	010ICSA.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:38:56-04:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.022	35.4	237	18.9	1	
B	11	45	2	NoGas	1.044	14.2	21250	2.2	20	
Na	23	45	1	He	47249.452	4.1	76872891	1.5	75200	
Mg	24	45	1	He	47909.968	3.4	44766060	2.9	75200	
Al	27	45	1	He	45594.897	3.8	24766327	1.7	75200	
K	39	45	1	He	47275.104	5.1	47995815	0.6	75200	
Ca	44	45	1	He	47232.439	5.1	2468745	0.3	75200	
Ti	47	45	1	He	955.593	4.1	285308	1.4	1505	
V	51	45	1	He	0.044	84.1	729	33.6	4	
Cr	52	45	1	He	0.654	10.3	9266	1.0	4	
Mn	55	45	1	He	0.296	9.6	2285	3.2	4	
Fe	56	45	1	He	47607.366	5.0	363133470	0.5	75200	
Co	59	45	1	He	0.028	9.8	450	5.6	2	
Ni	60	45	1	He	0.049	87.5	481	19.5	4	
Cu	63	45	1	He	0.290	5.9	3689	2.7	4	
Zn	66	45	1	He	0.979	12.8	2449	6.7	10	
As	75	115	1	He	0.035	54.4	288	7.2	4	
Se	78	115	1	He	-0.018	-506.7	118	6.8	4	
Sr	88	45	1	He	0.317	6.3	2537	4.9	20	
Mo	95	103	1	He	1040.638	2.8	3234245	1.9	1505	
Ag	107	103	1	He	0.011	11.9	123	9.7	1	
Cd	111	115	1	He	0.025	238.4	1187	8.9	1	
Sn	118	115	1	He	0.232	14.9	2963	5.3	20	
Sb	123	115	1	He	0.217	3.9	1240	2.6	1	
Ba	137	115	1	He	0.040	27.3	120	18.2	2	
W	182	159	1	He	0.407	10.7	6276	5.0	20	
Tl	205	165	1	He	0.005	29.3	361	10.1	1	
Pb	208	165	1	He	0.099	3.9	3317	2.4	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1763514	0.59	1981019	89.02	30	120	
Sc	45	1	He	847394	5.57	833672	101.65	30	120	
Sc	45	2	NoGas	7277665	0.62	7685379	94.69	30	120	
Rh	103	1	He	1788598	1.91	1912940	93.50	30	120	
In	115	1	He	1065465	0.42	1142978	93.22	30	120	
Tb	159	1	He	2706556	0.85	2736958	98.89	30	120	
Ho	165	1	He	2738867	0.80	2784764	98.35	30	120	
Bi	209	1	He	1808727	0.78	1889571	95.72	30	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB-1883162
Data File Name	011ICAB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:42:40-04:00
Sample Type	ICSAB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	2	NoGas	110.826	0.720	638608	0.65	100	110.8	79.5	120.5	
B	11	45	2	NoGas	109.956	0.587	405327	1.75	100	110.0	79.5	120.5	
Na	23	45	1	He	49595.220	4.327	76883962	0.98	50000	99.2	79.5	120.5	
Mg	24	45	1	He	49515.798	3.073	44083976	1.38	50000	99.0	79.5	120.5	
Al	27	45	1	He	47703.015	3.119	24695255	0.98	50000	95.4	79.5	120.5	
K	39	45	1	He	49244.445	3.496	47665644	1.30	50000	98.5	79.5	120.5	
Ca	44	45	1	He	49549.073	3.950	2468919	0.65	50000	99.1	79.5	120.5	
Ti	47	45	1	He	1099.278	3.530	312801	0.58	1100	99.9	79.5	120.5	
V	51	45	1	He	101.011	2.875	713912	1.25	100	101.0	79.5	120.5	
Cr	52	45	1	He	102.929	3.055	815045	1.25	100	102.9	79.5	120.5	
Mn	55	45	1	He	98.965	3.165	600721	0.94	100	99.0	79.5	120.5	
Fe	56	45	1	He	50749.985	2.864	369125701	1.31	50000	101.5	79.5	120.5	
Co	59	45	1	He	103.066	3.028	1103832	1.10	100	103.1	79.5	120.5	
Ni	60	45	1	He	103.137	4.105	271513	1.00	100	103.1	79.5	120.5	
Cu	63	45	1	He	102.088	3.613	703367	0.49	100	102.1	79.5	120.5	
Zn	66	45	1	He	107.566	3.762	154943	0.80	100	107.6	79.5	120.5	
As	75	115	1	He	101.630	0.108	114426	0.26	100	101.6	79.5	120.5	
Se	78	115	1	He	100.658	1.413	9529	1.56	100	100.7	79.5	120.5	
Sr	88	45	1	He	103.080	3.418	740695	0.68	100	103.1	79.5	120.5	
Mo	95	103	1	He	1213.730	3.390	3732318	2.17	1100	110.3	79.5	120.5	
Ag	107	103	1	He	101.655	1.182	965892	1.01	100	101.7	79.5	120.5	
Cd	111	115	1	He	103.195	0.593	172383	0.74	100	103.2	79.5	120.5	
Sn	118	115	1	He	101.078	0.826	421653	0.82	100	101.1	79.5	120.5	
Sb	123	115	1	He	109.365	0.545	475791	0.59	100	109.4	79.5	120.5	
Ba	137	115	1	He	104.462	0.316	202457	0.51	100	104.5	79.5	120.5	
W	182	159	1	He	100.847	1.031	854729	1.07	100	100.8	79.5	120.5	
Tl	205	165	1	He	103.999	0.985	2248588	0.65	100	104.0	79.5	120.5	
Pb	208	165	1	He	105.442	4.191	2760229	3.91	100	105.4	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1765484	0.50	1981019	89.12	30	120	
Sc	45	1	He	807173	4.14	833672	96.82	30	120	
Sc	45	2	NoGas	7237858	2.25	7685379	94.18	30	120	
Rh	103	1	He	1769784	1.25	1912940	92.52	30	120	
In	115	1	He	1052686	0.20	1142978	92.10	30	120	
Tb	159	1	He	2727142	0.75	2736958	99.64	30	120	
Ho	165	1	He	2730182	0.35	2784764	98.04	30	120	
Bi	209	1	He	1816027	0.78	1889571	96.11	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	012_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:46:25-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.312	3.198	288893	2.09	50	96.6	89.5	110.5	
B	11	45	2	NoGas	50.071	1.440	200397	0.39	50	100.1	89.5	110.5	
Na	23	45	1	He	25211.501	1.279	39734530	1.29	25000	100.8	89.5	110.5	
Mg	24	45	1	He	25181.521	1.228	22772689	0.48	25000	100.7	89.5	110.5	
Al	27	45	1	He	254.150	1.134	134663	0.96	250	101.7	89.5	110.5	
K	39	45	1	He	24821.683	2.587	24440050	0.99	25000	99.3	89.5	110.5	
Ca	44	45	1	He	24822.674	1.795	1256795	0.96	25000	99.3	89.5	110.5	
Ti	47	45	1	He	51.966	1.195	15040	2.11	50	103.9	89.5	110.5	
V	51	45	1	He	50.482	1.667	362597	1.54	50	101.0	89.5	110.5	
Cr	52	45	1	He	50.772	1.005	410272	0.73	50	101.5	89.5	110.5	
Mn	55	45	1	He	255.864	0.740	1577108	1.19	250	102.3	89.5	110.5	
Fe	56	45	1	He	12765.922	1.399	94316896	0.36	12500	102.1	89.5	110.5	
Co	59	45	1	He	51.511	0.750	560474	1.22	50	103.0	89.5	110.5	
Ni	60	45	1	He	52.079	1.926	139452	0.53	50	104.2	89.5	110.5	
Cu	63	45	1	He	52.195	1.069	366098	0.85	50	104.4	89.5	110.5	
Zn	66	45	1	He	51.861	0.902	76385	0.83	50	103.7	89.5	110.5	
As	75	115	1	He	49.971	1.181	58394	0.32	50	99.9	89.5	110.5	
Se	78	115	1	He	49.518	1.029	4917	1.15	50	99.0	89.5	110.5	
Sr	88	45	1	He	51.365	1.682	374993	0.20	50	102.7	89.5	110.5	
Mo	95	103	1	He	77.946	7.754	253569	7.88	50	155.9	89.5	110.5	CCV Failed
Ag	107	103	1	He	50.561	0.340	506573	0.46	50	101.1	89.5	110.5	
Cd	111	115	1	He	51.194	1.098	89151	0.21	50	102.4	89.5	110.5	
Sn	118	115	1	He	50.321	1.045	218411	0.15	50	100.6	89.5	110.5	
Sb	123	115	1	He	51.627	0.469	232757	0.43	50	103.3	89.5	110.5	
Ba	137	115	1	He	51.203	1.396	102793	1.27	50	102.4	89.5	110.5	
W	182	159	1	He	50.936	1.524	440332	0.18	50	101.9	89.5	110.5	
Tl	205	165	1	He	45.946	1.158	1010947	0.19	50	91.9	89.5	110.5	
Pb	208	165	1	He	51.717	1.555	1377961	0.83	50	103.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1832145	1.25	1981019	92.48	30	120	
Sc	45	1	He	819307	1.71	833672	98.28	30	120	
Sc	45	2	NoGas	7473644	1.21	7685379	97.24	30	120	
Rh	103	1	He	1866019	0.43	1912940	97.55	30	120	
In	115	1	He	1090226	0.88	1142978	95.38	30	120	
Tb	159	1	He	2772869	1.62	2736958	101.31	30	120	
Ho	165	1	He	2778186	1.35	2784764	99.76	30	120	
Bi	209	1	He	1872258	1.08	1889571	99.08	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	013_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:50:15-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.057	7.2	470	7.2	1	
B	11	45	2	NoGas	1.315	4.2	23245	1.8	20	
Na	23	45	1	He	10.323	13.7	57486	2.3	400	
Mg	24	45	1	He	2.687	26.1	4505	12.2	1000	
Al	27	45	1	He	1.136	30.0	1565	9.8	50	
K	39	45	1	He	8.457	15.3	81508	1.0	1000	
Ca	44	45	1	He	4.424	16.3	615	4.8	1000	
Ti	47	45	1	He	0.221	20.6	78	17.8	20	
V	51	45	1	He	0.006	452.3	429	43.6	2	
Cr	52	45	1	He	-0.017	-158.9	3488	5.5	2	
Mn	55	45	1	He	0.007	154.6	420	14.9	2	
Fe	56	45	1	He	20.374	26.4	158365	22.8	50	
Co	59	45	1	He	0.004	54.2	173	11.7	1	
Ni	60	45	1	He	0.021	33.7	383	4.5	2	
Cu	63	45	1	He	0.032	32.6	1712	3.8	2	
Zn	66	45	1	He	0.035	59.5	966	2.5	20	
As	75	115	1	He	-0.021	-118.2	240	13.1	2	
Se	78	115	1	He	-0.106	-134.5	117	13.0	2	
Sr	88	45	1	He	0.003	149.8	159	21.4	10	
Mo	95	103	1	He	4.604	8.1	16471	7.0	2	CCB Failed
Ag	107	103	1	He	0.007	59.6	92	44.9	0.2	
Cd	111	115	1	He	0.001	2606.2	1225	3.0	0.2	
Sn	118	115	1	He	0.566	18.2	4671	10.3	10	
Sb	123	115	1	He	0.521	21.4	2754	18.5	1	
Ba	137	115	1	He	0.004	316.5	52	47.9	5	
W	182	159	1	He	1.354	16.1	14730	12.6	10	
Tl	205	165	1	He	0.038	8.7	1103	6.6	0.5	
Pb	208	165	1	He	0.015	23.8	1126	7.8	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1874018	2.55	1981019	94.60	30	120	
Sc	45	1	He	793297	1.45	833672	95.16	30	120	
Sc	45	2	NoGas	7614594	0.97	7685379	99.08	30	120	
Rh	103	1	He	1954007	0.74	1912940	102.15	30	120	
In	115	1	He	1139347	0.66	1142978	99.68	30	120	
Tb	159	1	He	2805984	0.75	2736958	102.52	30	120	
Ho	165	1	He	2818551	0.67	2784764	101.21	30	120	
Bi	209	1	He	1931748	0.99	1889571	102.23	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	014_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:54:48-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.437	0.648	297148	0.66	50	96.9	89.5	110.5	
B	11	45	2	NoGas	49.141	2.832	200368	1.42	50	98.3	89.5	110.5	
Na	23	45	1	He	24336.413	4.972	40439277	1.37	25000	97.3	89.5	110.5	
Mg	24	45	1	He	24419.786	4.361	23289050	1.65	25000	97.7	89.5	110.5	
Al	27	45	1	He	242.443	4.233	135520	1.49	250	97.0	89.5	110.5	
K	39	45	1	He	24359.471	5.633	25286225	0.63	25000	97.4	89.5	110.5	
Ca	44	45	1	He	23803.888	4.713	1270883	1.47	25000	95.2	89.5	110.5	
Ti	47	45	1	He	49.343	6.599	15045	1.34	50	98.7	89.5	110.5	
V	51	45	1	He	49.127	3.071	372289	2.46	50	98.3	89.5	110.5	
Cr	52	45	1	He	49.251	4.173	419821	1.37	50	98.5	89.5	110.5	
Mn	55	45	1	He	249.635	5.546	1621793	0.48	250	99.9	89.5	110.5	
Fe	56	45	1	He	12316.830	5.527	95921152	0.22	12500	98.5	89.5	110.5	
Co	59	45	1	He	49.614	4.939	569097	0.53	50	99.2	89.5	110.5	
Ni	60	45	1	He	50.424	4.538	142399	1.34	50	100.8	89.5	110.5	
Cu	63	45	1	He	49.943	4.209	369481	1.17	50	99.9	89.5	110.5	
Zn	66	45	1	He	49.815	3.792	77426	1.67	50	99.6	89.5	110.5	
As	75	115	1	He	49.655	0.543	59102	0.81	50	99.3	89.5	110.5	
Se	78	115	1	He	49.088	0.727	4965	0.96	50	98.2	89.5	110.5	
Sr	88	45	1	He	49.245	4.803	379082	0.79	50	98.5	89.5	110.5	
Mo	95	103	1	He	50.978	1.423	167115	2.41	50	102.0	89.5	110.5	
Ag	107	103	1	He	50.758	1.741	511538	0.96	50	101.5	89.5	110.5	
Cd	111	115	1	He	50.582	1.710	89735	1.95	50	101.2	89.5	110.5	
Sn	118	115	1	He	49.646	0.427	219501	0.37	50	99.3	89.5	110.5	
Sb	123	115	1	He	50.739	0.511	232992	0.78	50	101.5	89.5	110.5	
Ba	137	115	1	He	49.981	1.347	102200	1.56	50	100.0	89.5	110.5	
W	182	159	1	He	48.932	1.294	420175	1.37	50	97.9	89.5	110.5	
Tl	205	165	1	He	46.002	1.626	1006601	1.12	50	92.0	89.5	110.5	
Pb	208	165	1	He	51.714	2.191	1370235	1.32	50	103.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1879212	0.78	1981019	94.86	30	120	
Sc	45	1	He	865222	5.46	833672	103.78	30	120	
Sc	45	2	NoGas	7602123	1.74	7685379	98.92	30	120	
Rh	103	1	He	1877170	1.09	1912940	98.13	30	120	
In	115	1	He	1110361	0.27	1142978	97.15	30	120	
Tb	159	1	He	2753052	0.35	2736958	100.59	30	120	
Ho	165	1	He	2762845	1.03	2784764	99.21	30	120	
Bi	209	1	He	1900126	0.97	1889571	100.56	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	015_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T10:58:37-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.036	24.7	348	16.1	1	
B	11	45	2	NoGas	0.955	9.9	22225	2.9	20	
Na	23	45	1	He	8.895	16.1	56469	2.8	400	
Mg	24	45	1	He	2.456	20.7	4393	8.8	1000	
Al	27	45	1	He	-0.123	-178.3	944	12.0	50	
K	39	45	1	He	7.761	25.6	82531	1.5	1000	
Ca	44	45	1	He	1.316	32.0	473	3.1	1000	
Ti	47	45	1	He	0.102	54.4	46	36.1	20	
V	51	45	1	He	0.072	84.9	913	48.8	2	
Cr	52	45	1	He	-0.010	-189.5	3616	4.8	2	
Mn	55	45	1	He	0.001	948.1	391	14.0	2	
Fe	56	45	1	He	16.641	29.8	134414	25.2	50	
Co	59	45	1	He	0.002	59.1	159	10.3	1	
Ni	60	45	1	He	0.018	42.0	382	5.6	2	
Cu	63	45	1	He	0.016	100.9	1637	5.3	2	
Zn	66	45	1	He	0.026	145.4	973	5.3	20	
As	75	115	1	He	-0.016	-16.8	249	1.6	2	
Se	78	115	1	He	-0.035	-95.9	126	2.4	2	
Sr	88	45	1	He	0.006	110.9	184	26.5	10	
Mo	95	103	1	He	1.484	12.5	5986	12.5	2	
Ag	107	103	1	He	0.005	19.2	80	15.0	0.2	
Cd	111	115	1	He	0.056	73.1	1342	6.0	0.2	
Sn	118	115	1	He	0.361	26.7	3797	11.6	10	
Sb	123	115	1	He	0.492	19.4	2655	16.9	1	
Ba	137	115	1	He	0.007	59.0	59	14.2	5	
W	182	159	1	He	1.176	17.7	13184	13.9	10	
Tl	205	165	1	He	0.028	19.5	879	13.1	0.5	
Pb	208	165	1	He	0.015	19.8	1138	6.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1908475	1.15	1981019	96.34	30	120	
Sc	45	1	He	809896	1.56	833672	97.15	30	120	
Sc	45	2	NoGas	7724719	1.30	7685379	100.51	30	120	
Rh	103	1	He	1984428	1.76	1912940	103.74	30	120	
In	115	1	He	1153659	0.38	1142978	100.93	30	120	
Tb	159	1	He	2804861	0.51	2736958	102.48	30	120	
Ho	165	1	He	2802741	0.94	2784764	100.65	30	120	
Bi	209	1	He	1947833	0.86	1889571	103.08	30	120	

Sample Report

Sample Table

Sample Name	LIN 1
Data File Name	016SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:02:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	242.184	242.184	4.04	1488650	0.02	10000	
B	11	45	2	NoGas	255.749	255.749	5.84	974429	0.03	300	
Na	23	45	1	He	5.739	5.739	40.48	49998	0.01	500000	
Mg	24	45	1	He	0.896	0.896	69.95	2900	0.03	500000	
Al	27	45	1	He	-0.234	-0.234	-142.43	857	-0.03	200000	
K	39	45	1	He	6.326	6.326	83.82	78685	0.01	500000	
Ca	44	45	1	He	-179.231	-179.231	-10.40	-8289	2.16	500000	
Ti	47	45	1	He	-0.001	-0.001	-3273.66	16	0.00	2500	
V	51	45	1	He	330.553	330.553	6.51	2273579	0.01	10000	
Cr	52	45	1	He	337.201	337.201	6.75	2591344	0.01	10000	
Mn	55	45	1	He	333.707	333.707	6.43	1971397	0.02	10000	
Fe	56	45	1	He	2.301	2.301	7.07	29156	0.01	200000	
Co	59	45	1	He	347.563	347.563	6.60	3623704	0.01	10000	
Ni	60	45	1	He	339.646	339.646	6.11	870107	0.04	10000	
Cu	63	45	1	He	367.529	367.529	6.88	2461654	0.01	10000	
Zn	66	45	1	He	341.085	341.085	6.42	476481	0.07	10000	
As	75	115	1	He	302.300	302.300	5.82	358810	0.08	10000	
Se	78	115	1	He	307.103	307.103	5.96	30434	1.01	10000	
Sr	88	45	1	He	357.507	357.507	7.73	2500031	0.01	10000	
Mo	95	103	1	He	0.448	0.448	10.58	2308	0.02	2000	
Ag	107	103	1	He	0.003	0.003	4.19	57	0.01	300	
Cd	111	115	1	He	310.314	310.314	6.09	544799	0.06	4000	
Sn	118	115	1	He	0.089	0.089	5.95	2471	0.00	2000	
Sb	123	115	1	He	0.130	0.130	5.03	893	0.01	300	
Ba	137	115	1	He	303.812	303.812	5.60	621572	0.05	10000	
W	182	159	1	He	0.263	0.263	8.78	5168	0.01	2500	
Tl	205	165	1	He	315.890	315.890	4.70	6863573	0.00	5000	
Pb	208	165	1	He	366.906	366.906	5.15	9650598	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1883923	1.00	1981019	95.10	30	120	
Sc	45	1	He	786842	4.81	833672	94.38	30	120	
Sc	45	2	NoGas	7672299	1.54	7685379	99.83	30	120	
Rh	103	1	He	1910520	6.00	1912940	99.87	30	120	
In	115	1	He	1113283	4.55	1142978	97.40	30	120	
Tb	159	1	He	2763042	4.74	2736958	100.95	30	120	
Ho	165	1	He	2747360	4.19	2784764	98.66	30	120	
Bi	209	1	He	1901807	6.17	1889571	100.65	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	017_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:06:12-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.133	17.4	967	13.9	1	
B	11	45	2	NoGas	6.708	3.5	44532	2.4	20	
Na	23	45	1	He	2.318	36.9	48312	2.5	400	
Mg	24	45	1	He	0.146	64.5	2437	3.7	1000	
Al	27	45	1	He	-0.583	-20.6	737	8.4	50	
K	39	45	1	He	1.093	84.3	79470	0.9	1000	
Ca	44	45	1	He	-2.095	-36.7	316	12.6	1000	
Ti	47	45	1	He	0.029	190.2	26	64.3	20	
V	51	45	1	He	0.038	183.0	697	74.6	2	
Cr	52	45	1	He	0.008	203.4	3925	3.1	2	
Mn	55	45	1	He	0.010	58.1	464	7.4	2	
Fe	56	45	1	He	1.050	1.7	21846	0.9	50	
Co	59	45	1	He	0.032	27.7	501	19.8	1	
Ni	60	45	1	He	0.026	88.5	422	15.0	2	
Cu	63	45	1	He	0.103	10.4	2339	3.6	2	
Zn	66	45	1	He	0.011	385.6	993	6.0	20	
As	75	115	1	He	0.060	23.6	347	4.7	2	
Se	78	115	1	He	0.129	79.4	145	7.0	2	
Sr	88	45	1	He	0.028	31.6	357	18.7	10	
Mo	95	103	1	He	0.322	9.3	2002	5.9	2	
Ag	107	103	1	He	0.000	1118.2	23	51.5	0.2	
Cd	111	115	1	He	0.062	30.2	1372	3.0	0.2	
Sn	118	115	1	He	0.043	38.9	2385	3.1	10	
Sb	123	115	1	He	0.085	20.2	726	11.0	1	
Ba	137	115	1	He	0.023	67.6	94	35.4	5	
W	182	159	1	He	0.114	6.3	4023	1.7	10	
Tl	205	165	1	He	0.164	13.2	3996	11.5	0.5	
Pb	208	165	1	He	0.046	8.4	2027	5.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1946022	1.27	1981019	98.23	30	120	
Sc	45	1	He	846052	0.47	833672	101.49	30	120	
Sc	45	2	NoGas	7838563	0.45	7685379	101.99	30	120	
Rh	103	1	He	2018174	0.70	1912940	105.50	30	120	
In	115	1	He	1170705	0.48	1142978	102.43	30	120	
Tb	159	1	He	2852570	1.08	2736958	104.22	30	120	
Ho	165	1	He	2879535	1.15	2784764	103.40	30	120	
Bi	209	1	He	1967851	0.87	1889571	104.14	30	120	

Sample Report

Sample Table

Sample Name	LIN 2
Data File Name	018SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:10:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.075	0.075	23.33	589	0.01	10000	
B	11	45	2	NoGas	2.969	2.969	3.84	29228	0.01	300	
Na	23	45	1	He	1.017	1.017	113.80	47451	0.00	500000	
Mg	24	45	1	He	0.358	0.358	53.94	2715	0.01	500000	
Al	27	45	1	He	0.063	0.063	341.36	1119	0.01	200000	
K	39	45	1	He	-3.282	-3.282	-99.20	77059	0.00	500000	
Ca	44	45	1	He	-2.058	-2.058	-57.46	327	-0.63	500000	
Ti	47	45	1	He	299.629	299.629	3.10	91907	0.33	2500	
V	51	45	1	He	0.043	0.043	119.73	745	0.01	10000	
Cr	52	45	1	He	-0.048	-0.048	-25.49	3567	0.00	10000	
Mn	55	45	1	He	-0.020	-0.020	-35.77	283	-0.01	10000	
Fe	56	45	1	He	0.223	0.223	23.23	15962	0.00	200000	
Co	59	45	1	He	0.022	0.022	10.09	394	0.01	10000	
Ni	60	45	1	He	0.050	0.050	40.18	503	0.01	10000	
Cu	63	45	1	He	0.037	0.037	85.97	1912	0.00	10000	
Zn	66	45	1	He	-0.038	-0.038	-146.11	943	0.00	10000	
As	75	115	1	He	-0.013	-0.013	-153.82	253	-0.01	10000	
Se	78	115	1	He	-0.007	-0.007	-1295.93	129	-0.01	10000	
Sr	88	45	1	He	0.001	0.001	52.41	160	0.00	10000	
Mo	95	103	1	He	293.468	293.468	1.39	1022023	0.03	2000	
Ag	107	103	1	He	328.101	328.101	1.54	3527490	0.01	300	>LDR
Cd	111	115	1	He	0.968	0.968	13.65	3011	0.03	4000	
Sn	118	115	1	He	298.958	298.958	0.71	1368203	0.02	2000	
Sb	123	115	1	He	245.891	245.891	3.55	1176730	0.02	300	
Ba	137	115	1	He	0.093	0.093	24.46	243	0.04	10000	
W	182	159	1	He	345.989	345.989	2.10	3024325	0.01	2500	
Tl	205	165	1	He	0.041	0.041	12.92	1173	0.00	5000	
Pb	208	165	1	He	0.017	0.017	17.19	1188	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1899965	1.36	1981019	95.91	30	120	
Sc	45	1	He	869921	4.50	833672	104.35	30	120	
Sc	45	2	NoGas	7576384	2.60	7685379	98.58	30	120	
Rh	103	1	He	2002462	0.21	1912940	104.68	30	120	
In	115	1	He	1158456	0.39	1142978	101.35	30	120	
Tb	159	1	He	2819572	0.83	2736958	103.02	30	120	
Ho	165	1	He	2831472	0.51	2784764	101.68	30	120	
Bi	209	1	He	2025778	0.76	1889571	107.21	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	019_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:13:54-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.048	30.2	430	23.2	1	
B	11	45	2	NoGas	1.133	15.5	22937	3.0	20	
Na	23	45	1	He	2.550	10.8	47076	2.1	400	
Mg	24	45	1	He	-0.013	-2447.5	2215	13.8	1000	
Al	27	45	1	He	-0.276	-116.2	872	18.2	50	
K	39	45	1	He	-0.004	-41687.4	75742	1.4	1000	
Ca	44	45	1	He	-0.697	-102.7	376	8.5	1000	
Ti	47	45	1	He	0.213	57.9	78	45.8	20	
V	51	45	1	He	-0.007	-1267.3	353	167.3	2	
Cr	52	45	1	He	-0.004	-232.6	3702	2.2	2	
Mn	55	45	1	He	-0.018	-29.9	279	12.1	2	
Fe	56	45	1	He	-0.103	-35.2	12613	2.4	50	
Co	59	45	1	He	0.001	101.6	148	6.9	1	
Ni	60	45	1	He	-0.006	-347.1	323	16.0	2	
Cu	63	45	1	He	0.035	40.0	1787	5.4	2	
Zn	66	45	1	He	0.008	683.4	957	7.8	20	
As	75	115	1	He	-0.024	-79.1	237	9.7	2	
Se	78	115	1	He	-0.018	-1321.6	127	18.9	2	
Sr	88	45	1	He	0.000	1076.3	142	19.9	10	
Mo	95	103	1	He	5.370	14.7	19298	14.5	2	Blank Failed
Ag	107	103	1	He	0.030	38.4	344	36.6	0.2	
Cd	111	115	1	He	0.017	66.7	1262	1.7	0.2	
Sn	118	115	1	He	1.436	13.9	8632	10.6	10	
Sb	123	115	1	He	8.041	27.4	38373	27.2	1	Blank Failed
Ba	137	115	1	He	0.008	103.4	61	28.0	5	
W	182	159	1	He	4.438	15.6	41425	14.0	10	
Tl	205	165	1	He	0.019	4.0	671	2.5	0.5	
Pb	208	165	1	He	0.005	37.9	857	5.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1942017	1.54	1981019	98.03	30	120	
Sc	45	1	He	817908	1.20	833672	98.11	30	120	
Sc	45	2	NoGas	7739384	1.62	7685379	100.70	30	120	
Rh	103	1	He	1975603	0.86	1912940	103.28	30	120	
In	115	1	He	1145980	0.11	1142978	100.26	30	120	
Tb	159	1	He	2799505	0.55	2736958	102.29	30	120	
Ho	165	1	He	2814946	0.11	2784764	101.08	30	120	
Bi	209	1	He	1911941	1.26	1889571	101.18	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	020_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:17:45-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.298	3.136	304409	1.42	50	96.6	89.5	110.5	
B	11	45	2	NoGas	50.911	2.257	208850	1.20	50	101.8	89.5	110.5	
Na	23	45	1	He	25120.001	4.409	41236270	0.40	25000	100.5	89.5	110.5	
Mg	24	45	1	He	25173.512	3.873	23716527	0.55	25000	100.7	89.5	110.5	
Al	27	45	1	He	248.628	2.829	137304	1.64	250	99.5	89.5	110.5	
K	39	45	1	He	25012.405	3.657	25662993	1.46	25000	100.0	89.5	110.5	
Ca	44	45	1	He	24219.205	5.574	1276904	1.49	25000	96.9	89.5	110.5	
Ti	47	45	1	He	51.113	5.251	15407	2.89	50	102.2	89.5	110.5	
V	51	45	1	He	49.965	3.889	373875	0.88	50	99.9	89.5	110.5	
Cr	52	45	1	He	50.636	2.986	426381	1.52	50	101.3	89.5	110.5	
Mn	55	45	1	He	253.203	4.705	1625406	0.70	250	101.3	89.5	110.5	
Fe	56	45	1	He	12644.594	3.365	97340632	1.13	12500	101.2	89.5	110.5	
Co	59	45	1	He	50.918	3.456	577197	0.96	50	101.8	89.5	110.5	
Ni	60	45	1	He	51.387	4.212	143349	0.72	50	102.8	89.5	110.5	
Cu	63	45	1	He	51.342	2.643	375315	1.78	50	102.7	89.5	110.5	
Zn	66	45	1	He	50.898	2.898	78138	1.63	50	101.8	89.5	110.5	
As	75	115	1	He	50.318	0.710	59875	0.48	50	100.6	89.5	110.5	
Se	78	115	1	He	50.453	0.411	5099	0.39	50	100.9	89.5	110.5	
Sr	88	45	1	He	50.177	3.621	381672	0.87	50	100.4	89.5	110.5	
Mo	95	103	1	He	51.247	1.969	169056	1.30	50	102.5	89.5	110.5	
Ag	107	103	1	He	50.971	2.371	517054	2.09	50	101.9	89.5	110.5	
Cd	111	115	1	He	50.909	0.556	90286	0.35	50	101.8	89.5	110.5	
Sn	118	115	1	He	49.495	0.385	218797	0.28	50	99.0	89.5	110.5	
Sb	123	115	1	He	53.108	0.339	243810	0.57	50	106.2	89.5	110.5	
Ba	137	115	1	He	50.882	1.183	104016	0.98	50	101.8	89.5	110.5	
W	182	159	1	He	49.851	1.005	435233	0.54	50	99.7	89.5	110.5	
Tl	205	165	1	He	45.669	0.718	1010472	1.05	50	91.3	89.5	110.5	
Pb	208	165	1	He	51.312	1.284	1374861	1.60	50	102.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1931308	1.73	1981019	97.49	30	120	
Sc	45	1	He	854403	4.48	833672	102.49	30	120	
Sc	45	2	NoGas	7671943	1.03	7685379	99.83	30	120	
Rh	103	1	He	1889469	1.32	1912940	98.77	30	120	
In	115	1	He	1110147	0.24	1142978	97.13	30	120	
Tb	159	1	He	2799611	0.69	2736958	102.29	30	120	
Ho	165	1	He	2793414	0.34	2784764	100.31	30	120	
Bi	209	1	He	1890662	0.96	1889571	100.06	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	021_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:21:33-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.042	35.4	393	24.1	1	
B	11	45	2	NoGas	1.045	18.5	22748	2.4	20	
Na	23	45	1	He	6.820	16.6	53901	2.7	400	
Mg	24	45	1	He	2.169	38.2	4190	17.4	1000	
Al	27	45	1	He	-0.075	-220.6	981	9.3	50	
K	39	45	1	He	5.617	26.5	81445	1.6	1000	
Ca	44	45	1	He	2.449	40.3	536	9.0	1000	
Ti	47	45	1	He	0.043	123.3	29	53.3	20	
V	51	45	1	He	0.067	22.4	879	11.6	2	
Cr	52	45	1	He	-0.010	-67.3	3665	1.4	2	
Mn	55	45	1	He	0.019	66.0	508	14.8	2	
Fe	56	45	1	He	13.259	33.1	111306	28.6	50	
Co	59	45	1	He	0.004	5.0	184	1.0	1	
Ni	60	45	1	He	-0.003	-199.8	331	5.5	2	
Cu	63	45	1	He	0.036	13.1	1800	1.3	2	
Zn	66	45	1	He	0.024	253.4	982	9.0	20	
As	75	115	1	He	-0.020	-29.6	242	2.9	2	
Se	78	115	1	He	-0.047	-62.7	124	2.5	2	
Sr	88	45	1	He	0.007	58.4	190	15.8	10	
Mo	95	103	1	He	1.288	19.4	5245	16.2	2	
Ag	107	103	1	He	0.008	26.2	110	21.2	0.2	
Cd	111	115	1	He	0.068	25.7	1356	2.6	0.2	
Sn	118	115	1	He	0.499	7.5	4401	3.6	10	
Sb	123	115	1	He	1.142	13.8	5717	12.8	1	CCB Failed
Ba	137	115	1	He	0.002	275.0	49	23.9	5	
W	182	159	1	He	1.407	12.7	15104	10.5	10	
Tl	205	165	1	He	0.033	12.9	999	9.1	0.5	
Pb	208	165	1	He	0.015	6.7	1137	3.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1956140	1.07	1981019	98.74	30	120	
Sc	45	1	He	819775	0.58	833672	98.33	30	120	
Sc	45	2	NoGas	7790077	1.03	7685379	101.36	30	120	
Rh	103	1	He	1964356	0.24	1912940	102.69	30	120	
In	115	1	He	1147192	0.29	1142978	100.37	30	120	
Tb	159	1	He	2787994	0.55	2736958	101.86	30	120	
Ho	165	1	He	2831152	0.97	2784764	101.67	30	120	
Bi	209	1	He	1899192	0.50	1889571	100.51	30	120	

Sample Report

Sample Table

Sample Name	LIN 3
Data File Name	022SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:25:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.045	0.045	50.94	393	0.01	10000	
B	11	45	2	NoGas	3.905	3.905	8.37	32081	0.01	300	
Na	23	45	1	He	4.825	4.825	29.13	51172	0.01	500000	
Mg	24	45	1	He	3.771	3.771	8.28	5690	0.07	500000	
Al	27	45	1	He	4.274	4.274	7.08	3297	0.13	200000	
K	39	45	1	He	-3.737	-3.737	-24.14	72868	-0.01	500000	
Ca	44	45	1	He	5.012	5.012	12.18	671	0.75	500000	
Ti	47	45	1	He	2015.227	2015.227	0.87	587888	0.34	2500	
V	51	45	1	He	-0.009	-0.009	-1068.52	332	0.00	10000	
Cr	52	45	1	He	-0.036	-0.036	-10.44	3483	0.00	10000	
Mn	55	45	1	He	-0.005	-0.005	-85.11	361	0.00	10000	
Fe	56	45	1	He	2.316	2.316	11.33	30818	0.01	200000	
Co	59	45	1	He	0.092	0.092	9.68	1146	0.01	10000	
Ni	60	45	1	He	0.478	0.478	6.25	1632	0.03	10000	
Cu	63	45	1	He	0.044	0.044	11.63	1873	0.00	10000	
Zn	66	45	1	He	0.308	0.308	6.96	1407	0.02	10000	
As	75	115	1	He	-0.016	-0.016	-84.15	232	-0.01	10000	
Se	78	115	1	He	-0.079	-0.079	-114.62	114	-0.07	10000	
Sr	88	45	1	He	-0.001	-0.001	-437.06	130	0.00	10000	
Mo	95	103	1	He	1959.207	1959.207	2.51	6536121	0.03	2000	
Ag	107	103	1	He	2077.679	2077.679	4.33	21420964	0.01	300	>LDR
Cd	111	115	1	He	8.694	8.694	2.27	15973	0.05	4000	
Sn	118	115	1	He	2330.534	2330.534	1.05	9937185	0.02	2000	>LDR
Sb	123	115	1	He	2206.321	2206.321	1.01	9849366	0.02	300	>LDR
Ba	137	115	1	He	0.697	0.697	3.25	1428	0.05	10000	
W	182	159	1	He	2325.773	2325.773	0.58	19800370	0.01	2500	
Tl	205	165	1	He	0.016	0.016	9.27	584	0.00	5000	
Pb	208	165	1	He	0.015	0.015	7.50	1110	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1868006	1.52	1981019	94.30	30	120	
Sc	45	1	He	826840	2.28	833672	99.18	30	120	
Sc	45	2	NoGas	7434512	0.87	7685379	96.74	30	120	
Rh	103	1	He	1919821	0.96	1912940	100.36	30	120	
In	115	1	He	1080805	0.12	1142978	94.56	30	120	
Tb	159	1	He	2748310	1.44	2736958	100.41	30	120	
Ho	165	1	He	2735566	0.44	2784764	98.23	30	120	
Bi	209	1	He	1952906	1.06	1889571	103.35	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	023_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:29:12-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.031	15.3	319	8.8	1	
B	11	45	2	NoGas	0.350	7.8	19726	0.5	20	
Na	23	45	1	He	3.273	32.2	47198	1.4	400	
Mg	24	45	1	He	0.337	67.1	2474	6.1	1000	
Al	27	45	1	He	-0.569	-14.5	704	4.0	50	
K	39	45	1	He	2.323	87.2	76408	1.2	1000	
Ca	44	45	1	He	-1.557	-34.2	325	6.6	1000	
Ti	47	45	1	He	1.389	22.1	408	20.2	20	
V	51	45	1	He	0.017	273.5	506	62.2	2	
Cr	52	45	1	He	0.010	296.8	3736	6.0	2	
Mn	55	45	1	He	-0.018	-47.2	273	19.6	2	
Fe	56	45	1	He	0.151	20.3	14188	0.5	50	
Co	59	45	1	He	0.004	116.2	179	28.0	1	
Ni	60	45	1	He	-0.024	-60.7	270	13.7	2	
Cu	63	45	1	He	0.012	46.4	1597	2.2	2	
Zn	66	45	1	He	-0.073	-27.4	821	3.4	20	
As	75	115	1	He	-0.005	-248.6	261	6.1	2	
Se	78	115	1	He	-0.070	-198.8	122	12.0	2	
Sr	88	45	1	He	0.003	148.0	160	21.9	10	
Mo	95	103	1	He	56.524	20.3	191397	19.4	2	Blank Failed
Ag	107	103	1	He	50.772	1.5	529441	0.6	0.2	Blank Failed
Cd	111	115	1	He	0.036	25.7	1299	1.1	0.2	
Sn	118	115	1	He	2.594	9.6	13910	8.3	10	
Sb	123	115	1	He	18.740	26.7	89319	26.8	1	Blank Failed
Ba	137	115	1	He	0.007	99.4	60	25.5	5	
W	182	159	1	He	16.974	15.3	150694	15.5	10	Blank Failed
Tl	205	165	1	He	0.007	27.8	408	11.2	0.5	
Pb	208	165	1	He	0.004	28.3	848	2.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1940816	0.81	1981019	97.97	30	120	
Sc	45	1	He	801117	2.03	833672	96.09	30	120	
Sc	45	2	NoGas	7640698	0.82	7685379	99.42	30	120	
Rh	103	1	He	1942353	1.06	1912940	101.54	30	120	
In	115	1	He	1149529	0.33	1142978	100.57	30	120	
Tb	159	1	He	2808267	0.51	2736958	102.61	30	120	
Ho	165	1	He	2834138	1.04	2784764	101.77	30	120	
Bi	209	1	He	1944228	1.61	1889571	102.89	30	120	

Sample Report

Sample Table

Sample Name	LIN 4
Data File Name	024SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:33:01-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.037	0.037	16.80	344	0.01	10000	
B	11	45	2	NoGas	4.323	4.323	4.37	34392	0.01	300	
Na	23	45	1	He	4.482	4.482	12.51	51320	0.01	500000	
Mg	24	45	1	He	4.092	4.092	2.56	6061	0.07	500000	
Al	27	45	1	He	5.328	5.328	8.12	3906	0.14	200000	
K	39	45	1	He	-4.552	-4.552	-32.01	73002	-0.01	500000	
Ca	44	45	1	He	9.209	9.209	8.05	897	1.03	500000	
Ti	47	45	1	He	2476.484	2476.484	0.67	731921	0.34	2500	
V	51	45	1	He	-0.063	-0.063	-97.58	-57	0.11	10000	
Cr	52	45	1	He	-0.012	-0.012	-139.38	3727	0.00	10000	
Mn	55	45	1	He	-0.003	-0.003	-97.82	377	0.00	10000	
Fe	56	45	1	He	0.431	0.431	13.60	16947	0.00	200000	
Co	59	45	1	He	0.108	0.108	12.67	1340	0.01	10000	
Ni	60	45	1	He	0.594	0.594	6.07	1969	0.03	10000	
Cu	63	45	1	He	0.084	0.084	25.30	2178	0.00	10000	
Zn	66	45	1	He	0.370	0.370	19.19	1519	0.02	10000	
As	75	115	1	He	0.010	0.010	163.26	262	0.00	10000	
Se	78	115	1	He	0.037	0.037	110.51	124	0.03	10000	
Sr	88	45	1	He	0.004	0.004	12.03	170	0.00	10000	
Mo	95	103	1	He	2459.775	2459.775	2.63	8268614	0.03	2000	>LDR
Ag	107	103	1	He	2279.128	2279.128	5.03	23671279	0.01	300	>LDR
Cd	111	115	1	He	10.903	10.903	3.82	19666	0.06	4000	
Sn	118	115	1	He	2884.727	2884.727	1.07	12254472	0.02	2000	>LDR
Sb	123	115	1	He	2782.560	2782.560	1.42	12376205	0.02	300	>LDR
Ba	137	115	1	He	0.933	0.933	6.36	1891	0.05	10000	
W	182	159	1	He	2911.948	2911.948	0.79	24677351	0.01	2500	>LDR
Tl	205	165	1	He	0.007	0.007	39.10	410	0.00	5000	
Pb	208	165	1	He	0.011	0.011	34.59	1020	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1888044	2.57	1981019	95.31	30	120	
Sc	45	1	He	837573	0.96	833672	100.47	30	120	
Sc	45	2	NoGas	7612799	1.28	7685379	99.06	30	120	
Rh	103	1	He	1934322	0.46	1912940	101.12	30	120	
In	115	1	He	1076807	0.40	1142978	94.21	30	120	
Tb	159	1	He	2735708	0.54	2736958	99.95	30	120	
Ho	165	1	He	2812863	0.89	2784764	101.01	30	120	
Bi	209	1	He	1994630	2.17	1889571	105.56	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	025_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:36:47-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.042	30.7	385	20.9	1	
B	11	45	2	NoGas	-0.090	-136.5	18095	2.2	20	
Na	23	45	1	He	5.936	18.9	50413	4.9	400	
Mg	24	45	1	He	0.690	14.2	2737	1.8	1000	
Al	27	45	1	He	-0.427	-33.9	763	8.8	50	
K	39	45	1	He	1.797	22.9	74560	1.7	1000	
Ca	44	45	1	He	-0.709	-180.1	360	15.2	1000	
Ti	47	45	1	He	1.748	14.0	500	11.6	20	
V	51	45	1	He	0.023	333.8	547	98.5	2	
Cr	52	45	1	He	-0.008	-158.2	3525	1.3	2	
Mn	55	45	1	He	-0.021	-26.3	250	13.5	2	
Fe	56	45	1	He	-0.155	-8.9	11762	1.6	50	
Co	59	45	1	He	0.003	28.6	161	6.7	1	
Ni	60	45	1	He	-0.009	-194.5	303	12.1	2	
Cu	63	45	1	He	0.016	137.9	1590	8.9	2	
Zn	66	45	1	He	-0.019	-298.5	881	7.2	20	
As	75	115	1	He	-0.010	-68.1	254	2.8	2	
Se	78	115	1	He	-0.047	-168.1	124	6.3	2	
Sr	88	45	1	He	0.000	-1466.0	131	31.1	10	
Mo	95	103	1	He	75.086	20.6	259930	20.3	2	Blank Failed
Ag	107	103	1	He	61.551	1.6	656396	1.4	0.2	Blank Failed
Cd	111	115	1	He	0.028	80.3	1286	3.2	0.2	
Sn	118	115	1	He	3.159	9.7	16464	8.2	10	
Sb	123	115	1	He	22.788	26.8	108461	26.5	1	Blank Failed
Ba	137	115	1	He	0.009	108.2	63	32.0	5	
W	182	159	1	He	21.971	14.7	191086	15.1	10	Blank Failed
Tl	205	165	1	He	0.003	31.9	319	6.6	0.5	
Pb	208	165	1	He	0.004	41.4	847	5.8	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1915866	0.34	1981019	96.71	30	120	
Sc	45	1	He	786725	1.96	833672	94.37	30	120	
Sc	45	2	NoGas	7642519	0.33	7685379	99.44	30	120	
Rh	103	1	He	1986234	0.24	1912940	103.83	30	120	
In	115	1	He	1149234	0.77	1142978	100.55	30	120	
Tb	159	1	He	2763270	0.67	2736958	100.96	30	120	
Ho	165	1	He	2803654	0.57	2784764	100.68	30	120	
Bi	209	1	He	1929500	0.76	1889571	102.11	30	120	

Sample Report

Sample Table

Sample Name	LIN B SB
Data File Name	026SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:40:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.010	0.010	146.02	185	0.01	10000	
B	11	45	2	NoGas	213.488	213.488	2.11	802851	0.03	300	
Na	23	45	1	He	1.360	1.360	87.27	47098	0.00	500000	
Mg	24	45	1	He	0.861	0.861	44.90	3130	0.03	500000	
Al	27	45	1	He	0.088	0.088	16.33	1110	0.01	200000	
K	39	45	1	He	-3.615	-3.615	-42.12	75274	0.00	500000	
Ca	44	45	1	He	5.652	5.652	33.36	726	0.78	500000	
Ti	47	45	1	He	205.113	205.113	2.55	61708	0.33	2500	
V	51	45	1	He	-0.047	-0.047	-293.43	86	-0.06	10000	
Cr	52	45	1	He	-0.005	-0.005	-61.83	3854	0.00	10000	
Mn	55	45	1	He	0.012	0.012	96.37	482	0.00	10000	
Fe	56	45	1	He	0.072	0.072	52.70	14496	0.00	200000	
Co	59	45	1	He	0.083	0.083	1.85	1082	0.01	10000	
Ni	60	45	1	He	0.487	0.487	4.10	1706	0.03	10000	
Cu	63	45	1	He	-0.010	-0.010	-137.02	1538	0.00	10000	
Zn	66	45	1	He	0.885	0.885	9.53	2322	0.04	10000	
As	75	115	1	He	0.112	0.112	16.01	389	0.03	10000	
Se	78	115	1	He	-0.074	-0.074	-61.49	117	-0.06	10000	
Sr	88	45	1	He	0.009	0.009	31.72	213	0.00	10000	
Mo	95	103	1	He	218.881	218.881	2.48	740865	0.03	2000	
Ag	107	103	1	He	245.133	245.133	3.62	2560330	0.01	300	
Cd	111	115	1	He	0.231	0.231	24.78	1590	0.01	4000	
Sn	118	115	1	He	2334.706	2334.706	0.43	10189467	0.02	2000	>LDR
Sb	123	115	1	He	220.025	220.025	1.47	1005609	0.02	300	
Ba	137	115	1	He	0.259	0.259	7.26	570	0.05	10000	
W	182	159	1	He	244.949	244.949	0.71	2145834	0.01	2500	
Tl	205	165	1	He	0.004	0.004	91.64	342	0.00	5000	
Pb	208	165	1	He	0.017	0.017	21.49	1177	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1896406	1.45	1981019	95.73	30	120	
Sc	45	1	He	852907	3.59	833672	102.31	30	120	
Sc	45	2	NoGas	7541004	0.24	7685379	98.12	30	120	
Rh	103	1	He	1946367	2.21	1912940	101.75	30	120	
In	115	1	He	1106278	0.52	1142978	96.79	30	120	
Tb	159	1	He	2824446	1.32	2736958	103.20	30	120	
Ho	165	1	He	2803125	1.18	2784764	100.66	30	120	
Bi	209	1	He	1960598	1.93	1889571	103.76	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	027_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:44:26-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.020	64.0	244	32.8	1	
B	11	45	2	NoGas	0.483	19.3	20375	2.2	20	
Na	23	45	1	He	2.057	11.3	45836	1.7	400	
Mg	24	45	1	He	0.431	60.1	2586	7.7	1000	
Al	27	45	1	He	-0.225	-40.6	891	5.7	50	
K	39	45	1	He	0.435	126.1	75419	1.0	1000	
Ca	44	45	1	He	2.988	16.2	556	3.8	1000	
Ti	47	45	1	He	0.367	14.2	121	12.4	20	
V	51	45	1	He	0.051	34.1	759	17.0	2	
Cr	52	45	1	He	-0.007	-57.2	3638	2.2	2	
Mn	55	45	1	He	-0.019	-26.3	272	9.9	2	
Fe	56	45	1	He	-0.290	-25.5	11117	3.6	50	
Co	59	45	1	He	0.002	182.1	158	27.6	1	
Ni	60	45	1	He	-0.024	-56.3	271	14.2	2	
Cu	63	45	1	He	0.011	453.8	1601	20.2	2	
Zn	66	45	1	He	0.001	5696.9	937	8.0	20	
As	75	115	1	He	-0.018	-94.5	244	7.8	2	
Se	78	115	1	He	0.006	553.2	129	2.0	2	
Sr	88	45	1	He	0.003	117.1	162	18.5	10	
Mo	95	103	1	He	8.434	7.8	29662	6.2	2	Blank Failed
Ag	107	103	1	He	18.967	10.4	200211	9.4	0.2	Blank Failed
Cd	111	115	1	He	0.025	71.3	1277	2.5	0.2	
Sn	118	115	1	He	10.249	4.4	48504	4.4	10	Blank Failed
Sb	123	115	1	He	3.726	8.3	17959	8.3	1	Blank Failed
Ba	137	115	1	He	0.004	177.6	53	28.6	5	
W	182	159	1	He	4.647	8.4	42984	6.7	10	
Tl	205	165	1	He	0.003	22.8	314	4.3	0.5	
Pb	208	165	1	He	0.003	47.2	829	5.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1896785	0.47	1981019	95.75	30	120	
Sc	45	1	He	809734	1.32	833672	97.13	30	120	
Sc	45	2	NoGas	7697601	0.68	7685379	100.16	30	120	
Rh	103	1	He	1967286	1.57	1912940	102.84	30	120	
In	115	1	He	1146816	0.64	1142978	100.34	30	120	
Tb	159	1	He	2783809	1.50	2736958	101.71	30	120	
Ho	165	1	He	2823391	0.34	2784764	101.39	30	120	
Bi	209	1	He	1948493	0.21	1889571	103.12	30	120	

Sample Report

Sample Table

Sample Name	LIN SN
Data File Name	028SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:48:17-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.021	0.021	24.31	244	0.01	10000	
B	11	45	2	NoGas	356.996	356.996	1.82	1330188	0.03	300	>LDR
Na	23	45	1	He	0.623	0.623	124.01	45368	0.00	500000	
Mg	24	45	1	He	0.820	0.820	20.18	3052	0.03	500000	
Al	27	45	1	He	0.226	0.226	110.49	1169	0.02	200000	
K	39	45	1	He	-4.303	-4.303	-49.89	73690	-0.01	500000	
Ca	44	45	1	He	-0.889	-0.889	-177.14	376	-0.24	500000	
Ti	47	45	1	He	345.519	345.519	2.97	102728	0.34	2500	
V	51	45	1	He	0.000	0.000	21434.48	425	0.00	10000	
Cr	52	45	1	He	-0.013	-0.013	-99.32	3737	0.00	10000	
Mn	55	45	1	He	-0.017	-0.017	-79.18	292	-0.01	10000	
Fe	56	45	1	He	-0.269	-0.269	-21.82	11729	0.00	200000	
Co	59	45	1	He	0.148	0.148	11.05	1798	0.01	10000	
Ni	60	45	1	He	0.831	0.831	3.12	2634	0.03	10000	
Cu	63	45	1	He	-0.019	-0.019	-76.16	1451	0.00	10000	
Zn	66	45	1	He	0.002	0.002	1298.81	977	0.00	10000	
As	75	115	1	He	0.191	0.191	9.77	465	0.04	10000	
Se	78	115	1	He	0.015	0.015	184.93	121	0.01	10000	
Sr	88	45	1	He	0.000	0.000	-5658.00	143	0.00	10000	
Mo	95	103	1	He	344.178	344.178	1.76	1168999	0.03	2000	
Ag	107	103	1	He	370.852	370.852	0.75	3889006	0.01	300	>LDR
Cd	111	115	1	He	0.190	0.190	20.36	1465	0.01	4000	
Sn	118	115	1	He	4044.019	4044.019	1.42	17007024	0.02	2000	>LDR
Sb	123	115	1	He	431.131	431.131	0.66	1898647	0.02	300	>LDR
Ba	137	115	1	He	0.411	0.411	11.09	848	0.05	10000	
W	182	159	1	He	405.776	405.776	1.24	3506673	0.01	2500	
Tl	205	165	1	He	0.004	0.004	57.70	344	0.00	5000	
Pb	208	165	1	He	0.022	0.022	12.71	1292	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1874458	1.63	1981019	94.62	30	120	
Sc	45	1	He	843026	3.41	833672	101.12	30	120	
Sc	45	2	NoGas	7541519	1.63	7685379	98.13	30	120	
Rh	103	1	He	1953170	0.44	1912940	102.10	30	120	
In	115	1	He	1066114	0.71	1142978	93.28	30	120	
Tb	159	1	He	2787718	1.17	2736958	101.85	30	120	
Ho	165	1	He	2765238	0.98	2784764	99.30	30	120	
Bi	209	1	He	1964412	1.74	1889571	103.96	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	029_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:52:03-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.019	41.9	241	21.8	1	
B	11	45	2	NoGas	1.314	11.4	23078	2.1	20	
Na	23	45	1	He	2.072	62.0	44844	2.2	400	
Mg	24	45	1	He	0.378	84.3	2482	9.3	1000	
Al	27	45	1	He	-0.265	-41.5	851	4.9	50	
K	39	45	1	He	1.862	95.2	75129	0.3	1000	
Ca	44	45	1	He	0.275	496.5	411	14.0	1000	
Ti	47	45	1	He	0.568	20.2	174	17.1	20	
V	51	45	1	He	-0.107	-20.1	-355	-40.2	2	
Cr	52	45	1	He	0.018	62.3	3758	1.0	2	
Mn	55	45	1	He	-0.012	-48.1	304	9.4	2	
Fe	56	45	1	He	-0.300	-19.1	10813	4.1	50	
Co	59	45	1	He	0.006	49.9	192	15.2	1	
Ni	60	45	1	He	-0.009	-276.7	304	18.6	2	
Cu	63	45	1	He	-0.001	-269.6	1487	3.7	2	
Zn	66	45	1	He	0.000	-36194.7	913	10.1	20	
As	75	115	1	He	-0.023	-21.1	238	1.9	2	
Se	78	115	1	He	-0.062	-112.2	122	6.4	2	
Sr	88	45	1	He	0.005	213.3	168	42.1	10	
Mo	95	103	1	He	8.264	16.4	29121	15.4	2	Blank Failed
Ag	107	103	1	He	5.093	7.4	53866	6.9	0.2	Blank Failed
Cd	111	115	1	He	0.005	495.9	1240	3.8	0.2	
Sn	118	115	1	He	13.394	10.2	62705	10.6	10	Blank Failed
Sb	123	115	1	He	2.996	11.8	14494	12.3	1	Blank Failed
Ba	137	115	1	He	0.012	119.0	70	43.7	5	
W	182	159	1	He	4.581	13.4	43029	12.4	10	
Tl	205	165	1	He	0.000	436.4	262	16.2	0.5	
Pb	208	165	1	He	0.006	32.1	892	5.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1922137	2.13	1981019	97.03	30	120	
Sc	45	1	He	792320	2.29	833672	95.04	30	120	
Sc	45	2	NoGas	7563149	2.28	7685379	98.41	30	120	
Rh	103	1	He	1969595	0.93	1912940	102.96	30	120	
In	115	1	He	1145892	0.79	1142978	100.25	30	120	
Tb	159	1	He	2822417	0.05	2736958	103.12	30	120	
Ho	165	1	He	2812040	0.95	2784764	100.98	30	120	
Bi	209	1	He	1939856	1.51	1889571	102.66	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	030_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:55:53-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.533	1.496	290936	1.57	50	97.1	89.5	110.5	
B	11	45	2	NoGas	49.496	0.137	196705	0.87	50	99.0	89.5	110.5	
Na	23	45	1	He	24605.157	3.478	40144077	1.69	25000	98.4	89.5	110.5	
Mg	24	45	1	He	24471.461	3.398	22910521	1.69	25000	97.9	89.5	110.5	
Al	27	45	1	He	240.385	2.744	131938	2.18	250	96.2	89.5	110.5	
K	39	45	1	He	24260.869	4.429	24726332	0.49	25000	97.0	89.5	110.5	
Ca	44	45	1	He	23847.941	3.338	1250066	1.65	25000	95.4	89.5	110.5	
Ti	47	45	1	He	47.501	2.897	14236	2.96	50	95.0	89.5	110.5	
V	51	45	1	He	48.769	2.639	362744	2.54	50	97.5	89.5	110.5	
Cr	52	45	1	He	49.457	3.547	413792	1.46	50	98.9	89.5	110.5	
Mn	55	45	1	He	245.266	3.442	1564919	1.50	250	98.1	89.5	110.5	
Fe	56	45	1	He	12400.566	3.969	94841087	2.11	12500	99.2	89.5	110.5	
Co	59	45	1	He	49.653	3.375	559246	1.50	50	99.3	89.5	110.5	
Ni	60	45	1	He	50.148	3.562	139035	1.85	50	100.3	89.5	110.5	
Cu	63	45	1	He	50.163	3.235	364313	1.80	50	100.3	89.5	110.5	
Zn	66	45	1	He	50.112	2.420	76467	2.73	50	100.2	89.5	110.5	
As	75	115	1	He	49.623	0.636	58216	1.45	50	99.2	89.5	110.5	
Se	78	115	1	He	49.176	2.388	4903	2.72	50	98.4	89.5	110.5	
Sr	88	45	1	He	49.173	3.633	371626	1.28	50	98.3	89.5	110.5	
Mo	95	103	1	He	51.437	2.991	168468	2.03	50	102.9	89.5	110.5	
Ag	107	103	1	He	52.278	1.466	526661	2.47	50	104.6	89.5	110.5	
Cd	111	115	1	He	50.963	1.194	89107	2.14	50	101.9	89.5	110.5	
Sn	118	115	1	He	54.172	0.879	235899	1.89	50	108.3	89.5	110.5	
Sb	123	115	1	He	53.038	1.105	240040	1.57	50	106.1	89.5	110.5	
Ba	137	115	1	He	50.182	1.006	101136	1.61	50	100.4	89.5	110.5	
W	182	159	1	He	50.083	1.679	429389	0.62	50	100.2	89.5	110.5	
Tl	205	165	1	He	45.301	1.733	990370	1.54	50	90.6	89.5	110.5	
Pb	208	165	1	He	51.043	1.768	1351330	1.58	50	102.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1836293	0.89	1981019	92.69	30	120	
Sc	45	1	He	848989	4.92	833672	101.84	30	120	
Sc	45	2	NoGas	7412684	0.90	7685379	96.45	30	120	
Rh	103	1	He	1876103	1.01	1912940	98.07	30	120	
In	115	1	He	1094412	1.02	1142978	95.75	30	120	
Tb	159	1	He	2749571	1.19	2736958	100.46	30	120	
Ho	165	1	He	2760191	0.42	2784764	99.12	30	120	
Bi	209	1	He	1860497	0.32	1889571	98.46	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	031_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T11:59:41-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.025	42.8	270	22.6	1	
B	11	45	2	NoGas	2.372	13.3	26872	3.4	20	
Na	23	45	1	He	6.534	23.4	51588	2.7	400	
Mg	24	45	1	He	2.963	23.1	4734	10.9	1000	
Al	27	45	1	He	-0.201	-126.8	882	13.6	50	
K	39	45	1	He	5.724	41.1	78719	1.4	1000	
Ca	44	45	1	He	2.237	57.8	507	10.8	1000	
Ti	47	45	1	He	0.167	37.3	62	26.4	20	
V	51	45	1	He	0.027	152.5	571	48.4	2	
Cr	52	45	1	He	0.004	642.6	3644	4.2	2	
Mn	55	45	1	He	0.006	249.1	409	18.7	2	
Fe	56	45	1	He	15.155	34.1	120741	29.1	50	
Co	59	45	1	He	0.002	158.8	149	17.0	1	
Ni	60	45	1	He	-0.027	-35.4	259	8.6	2	
Cu	63	45	1	He	0.001	590.8	1501	2.8	2	
Zn	66	45	1	He	0.012	244.5	931	3.8	20	
As	75	115	1	He	-0.010	-124.1	250	6.6	2	
Se	78	115	1	He	0.005	381.6	127	1.8	2	
Sr	88	45	1	He	0.003	92.9	154	10.6	10	
Mo	95	103	1	He	2.376	13.5	8855	10.6	2	CCB Failed
Ag	107	103	1	He	2.184	5.7	22794	3.7	0.2	CCB Failed
Cd	111	115	1	He	0.000	7428.5	1212	4.6	0.2	
Sn	118	115	1	He	3.323	4.0	16883	3.5	10	
Sb	123	115	1	He	1.865	4.8	8989	5.1	1	CCB Failed
Ba	137	115	1	He	0.000	-1944.2	43	23.1	5	
W	182	159	1	He	1.961	12.8	19980	9.9	10	
Tl	205	165	1	He	0.030	27.6	902	19.0	0.5	
Pb	208	165	1	He	0.018	27.5	1203	10.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1878797	1.44	1981019	94.84	30	120	
Sc	45	1	He	791538	1.86	833672	94.95	30	120	
Sc	45	2	NoGas	7534506	1.05	7685379	98.04	30	120	
Rh	103	1	He	1943744	2.11	1912940	101.61	30	120	
In	115	1	He	1127427	0.51	1142978	98.64	30	120	
Tb	159	1	He	2803902	0.99	2736958	102.45	30	120	
Ho	165	1	He	2791668	0.98	2784764	100.25	30	120	
Bi	209	1	He	1918711	0.29	1889571	101.54	30	120	

Sample Report

Sample Table

Sample Name	LIN 5
Data File Name	032SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:03:33-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3788.389	3788.389	1.16	22741994	0.02	10000	
B	11	45	2	NoGas	3844.151	3844.151	2.27	13411691	0.03	300	>LDR
Na	23	45	1	He	2.700	2.700	20.25	44770	0.01	500000	
Mg	24	45	1	He	-0.595	-0.595	-24.66	1596	-0.04	500000	
Al	27	45	1	He	-0.269	-0.269	-23.13	830	-0.03	200000	
K	39	45	1	He	-1.000	-1.000	-199.31	70756	0.00	500000	
Ca	44	45	1	He	-2377.431	-2377.431	-7.56	-113278	2.10	500000	
Ti	47	45	1	He	0.127	0.127	33.56	50	0.25	2500	
V	51	45	1	He	4059.404	4059.404	0.76	27518065	0.01	10000	
Cr	52	45	1	He	4260.223	4260.223	0.57	32231571	0.01	10000	
Mn	55	45	1	He	4197.716	4197.716	1.15	24439291	0.02	10000	
Fe	56	45	1	He	1.091	1.091	9.73	20271	0.01	200000	
Co	59	45	1	He	4470.347	4470.347	1.19	45941522	0.01	10000	
Ni	60	45	1	He	4564.025	4564.025	1.51	11519453	0.04	10000	
Cu	63	45	1	He	4603.700	4603.700	0.45	30379709	0.02	10000	
Zn	66	45	1	He	4649.964	4649.964	1.31	6391376	0.07	10000	
As	75	115	1	He	4079.698	4079.698	0.53	4761433	0.09	10000	
Se	78	115	1	He	3956.041	3956.041	0.19	384317	1.03	10000	
Sr	88	45	1	He	4496.139	4496.139	1.36	31001213	0.01	10000	
Mo	95	103	1	He	0.966	0.966	4.98	4031	0.02	2000	
Ag	107	103	1	He	1.427	1.427	2.09	14644	0.01	300	
Cd	111	115	1	He	4435.037	4435.037	1.13	7646070	0.06	4000	>LDR
Sn	118	115	1	He	1.589	1.589	5.33	8895	0.02	2000	
Sb	123	115	1	He	1.154	1.154	3.87	5509	0.02	300	
Ba	137	115	1	He	4355.490	4355.490	1.08	8767486	0.05	10000	
W	182	159	1	He	0.740	0.740	10.98	9285	0.01	2500	
Tl	205	165	1	He	4232.760	4232.760	0.53	92644383	0.00	5000	
Pb	208	165	1	He	4779.410	4779.410	1.48	126636319	0.00	4000	>LDR

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1839740	1.66	1981019	92.87	30	120	
Sc	45	1	He	773975	0.47	833672	92.84	30	120	
Sc	45	2	NoGas	7150423	1.59	7685379	93.04	30	120	
Rh	103	1	He	1908423	1.22	1912940	99.76	30	120	
In	115	1	He	1093512	0.86	1142978	95.67	30	120	
Tb	159	1	He	2772483	0.68	2736958	101.30	30	120	
Ho	165	1	He	2764101	1.00	2784764	99.26	30	120	
Bi	209	1	He	1939747	0.92	1889571	102.66	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	033_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:07:01-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	1.136	4.0	6772	3.1	1	Blank Failed
B	11	45	2	NoGas	55.451	3.1	207975	2.0	20	Blank Failed
Na	23	45	1	He	1.492	15.0	42684	0.6	400	
Mg	24	45	1	He	-0.921	-44.7	1311	27.7	1000	
Al	27	45	1	He	-0.310	-36.0	804	7.9	50	
K	39	45	1	He	-1.354	-104.2	69961	1.7	1000	
Ca	44	45	1	He	-1.445	-54.6	318	11.1	1000	
Ti	47	45	1	He	0.046	43.4	28	18.3	20	
V	51	45	1	He	0.519	33.4	3863	29.1	2	
Cr	52	45	1	He	0.369	34.7	6277	14.2	2	
Mn	55	45	1	He	0.420	22.9	2791	18.9	2	
Fe	56	45	1	He	-0.114	-72.9	11775	3.9	50	
Co	59	45	1	He	0.443	26.8	4638	25.0	1	
Ni	60	45	1	He	0.391	33.8	1296	24.4	2	
Cu	63	45	1	He	1.119	15.4	8777	11.8	2	
Zn	66	45	1	He	0.688	33.9	1826	16.3	20	
As	75	115	1	He	0.612	16.3	972	12.3	2	
Se	78	115	1	He	1.174	29.3	237	14.3	2	
Sr	88	45	1	He	0.339	29.5	2450	26.8	10	
Mo	95	103	1	He	0.386	15.1	2077	8.7	2	
Ag	107	103	1	He	1.521	6.3	15395	6.5	0.2	Blank Failed
Cd	111	115	1	He	0.668	23.0	2334	11.6	0.2	Blank Failed
Sn	118	115	1	He	1.169	4.9	7106	3.4	10	
Sb	123	115	1	He	0.892	1.3	4333	1.1	1	
Ba	137	115	1	He	0.323	12.3	696	11.7	5	
W	182	159	1	He	0.386	9.8	6172	5.4	10	
Tl	205	165	1	He	0.930	21.1	20584	20.6	0.5	Blank Failed
Pb	208	165	1	He	0.610	20.9	16874	19.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1796143	1.26	1981019	90.67	30	120	
Sc	45	1	He	768846	1.10	833672	92.22	30	120	
Sc	45	2	NoGas	7066111	1.38	7685379	91.94	30	120	
Rh	103	1	He	1881896	0.46	1912940	98.38	30	120	
In	115	1	He	1096756	0.24	1142978	95.96	30	120	
Tb	159	1	He	2739321	0.22	2736958	100.09	30	120	
Ho	165	1	He	2761836	0.47	2784764	99.18	30	120	
Bi	209	1	He	1906223	0.54	1889571	100.88	30	120	

Sample Report

Sample Table

Sample Name	LIN 6
Data File Name	034SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:10:51-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	4880.931	4880.931	1.22	27836545	0.02	10000	
B	11	45	2	NoGas	4866.351	4866.351	0.24	16655996	0.03	300	>LDR
Na	23	45	1	He	1.310	1.310	58.76	42075	0.00	500000	
Mg	24	45	1	He	-1.366	-1.366	-19.33	922	-0.15	500000	
Al	27	45	1	He	-0.386	-0.386	-37.83	760	-0.05	200000	
K	39	45	1	He	-2.415	-2.415	-46.03	68440	0.00	500000	
Ca	44	45	1	He	-3142.840	-3142.840	-5.25	-147686	2.13	500000	
Ti	47	45	1	He	0.071	0.071	83.88	34	0.21	2500	
V	51	45	1	He	5050.428	5050.428	2.29	33736977	0.01	10000	
Cr	52	45	1	He	5251.513	5251.513	2.55	39150788	0.01	10000	
Mn	55	45	1	He	5217.712	5217.712	2.98	29932651	0.02	10000	
Fe	56	45	1	He	-0.224	-0.224	-15.02	10933	0.00	200000	
Co	59	45	1	He	5525.884	5525.884	2.14	55962046	0.01	10000	
Ni	60	45	1	He	5640.409	5640.409	2.29	14028766	0.04	10000	
Cu	63	45	1	He	5734.782	5734.782	2.90	37289555	0.02	10000	
Zn	66	45	1	He	5791.069	5791.069	1.65	7843564	0.07	10000	
As	75	115	1	He	5112.349	5112.349	0.53	5859430	0.09	10000	
Se	78	115	1	He	4931.071	4931.071	1.13	470400	1.05	10000	
Sr	88	45	1	He	5624.715	5624.715	2.04	38218303	0.01	10000	
Mo	95	103	1	He	0.219	0.219	5.35	1537	0.01	2000	
Ag	107	103	1	He	0.843	0.843	2.92	8563	0.01	300	
Cd	111	115	1	He	5567.289	5567.289	1.17	9426528	0.06	4000	>LDR
Sn	118	115	1	He	0.622	0.622	11.78	4638	0.01	2000	
Sb	123	115	1	He	0.712	0.712	0.68	3445	0.02	300	
Ba	137	115	1	He	5495.911	5495.911	1.43	10863898	0.05	10000	
W	182	159	1	He	0.263	0.263	10.87	5131	0.01	2500	
Tl	205	165	1	He	5263.733	5263.733	0.28	113397255	0.00	5000	>LDR
Pb	208	165	1	He	5927.492	5927.492	1.58	154585439	0.00	4000	>LDR

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1747801	1.23	1981019	88.23	30	120	
Sc	45	1	He	762791	1.14	833672	91.50	30	120	
Sc	45	2	NoGas	7015065	0.41	7685379	91.28	30	120	
Rh	103	1	He	1887441	1.71	1912940	98.67	30	120	
In	115	1	He	1073886	1.04	1142978	93.96	30	120	
Tb	159	1	He	2737620	1.17	2736958	100.02	30	120	
Ho	165	1	He	2720621	1.75	2784764	97.70	30	120	
Bi	209	1	He	1892368	1.35	1889571	100.15	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	035_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:14:17-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	1.684	2.8	9751	1.8	1	Blank Failed
B	11	45	2	NoGas	79.439	0.9	287788	0.7	20	Blank Failed
Na	23	45	1	He	0.774	16.1	40705	0.7	400	
Mg	24	45	1	He	-1.280	-22.3	982	23.8	1000	
Al	27	45	1	He	-0.715	-11.5	591	6.8	50	
K	39	45	1	He	-1.985	-41.1	67849	0.8	1000	
Ca	44	45	1	He	-2.354	-35.1	269	14.5	1000	
Ti	47	45	1	He	0.023	83.1	21	24.1	20	
V	51	45	1	He	0.787	19.6	5554	18.6	2	
Cr	52	45	1	He	0.454	25.6	6772	12.9	2	
Mn	55	45	1	He	0.549	17.8	3464	16.2	2	
Fe	56	45	1	He	-0.471	-6.0	9100	1.8	50	
Co	59	45	1	He	0.546	21.6	5582	21.4	1	
Ni	60	45	1	He	0.487	27.4	1506	22.0	2	
Cu	63	45	1	He	1.787	13.0	12875	11.8	2	
Zn	66	45	1	He	1.079	15.8	2309	10.1	20	
As	75	115	1	He	0.782	17.6	1140	13.2	2	
Se	78	115	1	He	1.555	9.9	268	5.0	2	
Sr	88	45	1	He	0.426	21.6	2980	20.9	10	
Mo	95	103	1	He	0.124	11.5	1196	3.1	2	
Ag	107	103	1	He	0.807	4.9	8012	4.8	0.2	Blank Failed
Cd	111	115	1	He	0.904	23.5	2670	12.7	0.2	Blank Failed
Sn	118	115	1	He	0.675	12.8	4842	7.4	10	
Sb	123	115	1	He	0.640	1.9	3114	1.0	1	
Ba	137	115	1	He	0.446	18.0	918	16.5	5	
W	182	159	1	He	0.179	20.3	4375	7.4	10	
Tl	205	165	1	He	1.285	20.7	27661	20.2	0.5	Blank Failed
Pb	208	165	1	He	0.764	19.4	20422	18.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1754126	1.48	1981019	88.55	30	120	
Sc	45	1	He	751853	0.32	833672	90.19	30	120	
Sc	45	2	NoGas	6997266	1.26	7685379	91.05	30	120	
Rh	103	1	He	1844072	1.18	1912940	96.40	30	120	
In	115	1	He	1069297	0.81	1142978	93.55	30	120	
Tb	159	1	He	2712907	1.61	2736958	99.12	30	120	
Ho	165	1	He	2694694	1.14	2784764	96.77	30	120	
Bi	209	1	He	1870976	1.32	1889571	99.02	30	120	

Sample Report

Sample Table

Sample Name	LIN 7
Data File Name	036SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:18:07-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	9949.887	9949.887	1.89	56767390	0.02	10000	
B	11	45	2	NoGas	9738.363	9738.363	1.18	33642478	0.03	300	>LDR
Na	23	45	1	He	1.625	1.625	17.64	41971	0.00	500000	
Mg	24	45	1	He	-1.388	-1.388	-10.31	893	-0.16	500000	
Al	27	45	1	He	-0.372	-0.372	-44.19	758	-0.05	200000	
K	39	45	1	He	-1.705	-1.705	-86.07	68165	0.00	500000	
Ca	44	45	1	He	-6332.926	-6332.926	-1.86	-294082	2.15	500000	
Ti	47	45	1	He	0.027	0.027	118.36	22	0.12	2500	
V	51	45	1	He	10265.029	10265.029	1.79	67650112	0.02	10000	>LDR
Cr	52	45	1	He	10659.081	10659.081	2.26	78395352	0.01	10000	>LDR
Mn	55	45	1	He	10557.686	10557.686	1.51	59758175	0.02	10000	>LDR
Fe	56	45	1	He	-0.141	-0.141	-43.90	11350	0.00	200000	
Co	59	45	1	He	11092.297	11092.297	2.32	110822984	0.01	10000	>LDR
Ni	60	45	1	He	11256.851	11256.851	0.93	27623802	0.04	10000	>LDR
Cu	63	45	1	He	11485.190	11485.190	1.54	73684999	0.02	10000	>LDR
Zn	66	45	1	He	11626.616	11626.616	1.53	15535830	0.07	10000	>LDR
As	75	115	1	He	10082.002	10082.002	1.04	11568561	0.09	10000	>LDR
Se	78	115	1	He	9710.378	9710.378	0.22	927258	1.05	10000	
Sr	88	45	1	He	11314.375	11314.375	1.55	75849988	0.01	10000	>LDR
Mo	95	103	1	He	0.098	0.098	1.72	1118	0.01	2000	
Ag	107	103	1	He	0.372	0.372	5.60	3717	0.01	300	
Cd	111	115	1	He	11078.479	11078.479	0.90	18777809	0.06	4000	>LDR
Sn	118	115	1	He	0.226	0.226	22.48	2963	0.01	2000	
Sb	123	115	1	He	0.460	0.460	10.30	2329	0.02	300	
Ba	137	115	1	He	10929.023	10929.023	0.25	21627848	0.05	10000	>LDR
W	182	159	1	He	0.161	0.161	8.18	4227	0.00	2500	
Tl	205	165	1	He	10486.205	10486.205	0.90	225687818	0.00	5000	>LDR
Pb	208	165	1	He	11836.340	11836.340	1.14	308392652	0.00	4000	>LDR

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1748672	1.57	1981019	88.27	30	120	
Sc	45	1	He	752549	0.85	833672	90.27	30	120	
Sc	45	2	NoGas	7084911	1.58	7685379	92.19	30	120	
Rh	103	1	He	1852195	0.17	1912940	96.82	30	120	
In	115	1	He	1075100	0.73	1142978	94.06	30	120	
Tb	159	1	He	2715016	0.34	2736958	99.20	30	120	
Ho	165	1	He	2717876	0.51	2784764	97.60	30	120	
Bi	209	1	He	1654103	14.76	1889571	87.54	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	037_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:21:33-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	3.569	4.7	19856	4.0	1	Blank Failed
B	11	45	2	NoGas	145.440	1.2	497111	0.7	20	Blank Failed
Na	23	45	1	He	0.661	74.4	39424	2.6	400	
Mg	24	45	1	He	-1.371	-9.1	882	11.7	1000	
Al	27	45	1	He	-0.611	-21.7	623	9.6	50	
K	39	45	1	He	-1.893	-77.0	66057	2.6	1000	
Ca	44	45	1	He	-0.419	-133.9	349	8.0	1000	
Ti	47	45	1	He	-0.005	-710.5	13	66.2	20	
V	51	45	1	He	1.212	33.0	8103	30.7	2	
Cr	52	45	1	He	1.002	24.3	10487	15.7	2	
Mn	55	45	1	He	1.110	22.6	6446	20.5	2	
Fe	56	45	1	He	-0.427	-7.6	9137	1.6	50	
Co	59	45	1	He	1.156	25.1	11324	24.1	1	Blank Failed
Ni	60	45	1	He	1.008	26.4	2702	22.7	2	
Cu	63	45	1	He	3.711	14.7	24491	13.0	2	Blank Failed
Zn	66	45	1	He	2.233	11.8	3742	8.5	20	
As	75	115	1	He	1.501	14.3	1947	13.1	2	
Se	78	115	1	He	2.664	15.6	370	11.1	2	Blank Failed
Sr	88	45	1	He	0.928	22.3	6159	21.0	10	
Mo	95	103	1	He	-0.020	-159.0	721	13.9	2	
Ag	107	103	1	He	0.378	9.9	3693	9.5	0.2	Blank Failed
Cd	111	115	1	He	1.868	20.0	4265	15.2	0.2	Blank Failed
Sn	118	115	1	He	0.454	18.1	3878	8.4	10	
Sb	123	115	1	He	0.525	4.2	2582	3.2	1	
Ba	137	115	1	He	0.954	17.2	1906	17.4	5	
W	182	159	1	He	0.133	17.0	3878	4.7	10	
Tl	205	165	1	He	2.485	21.5	52664	21.8	0.5	Blank Failed
Pb	208	165	1	He	1.536	20.0	39926	20.0	1	Blank Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1696343	1.62	1981019	85.63	30	120	
Sc	45	1	He	731045	0.82	833672	87.69	30	120	
Sc	45	2	NoGas	6782048	0.51	7685379	88.25	30	120	
Rh	103	1	He	1810150	0.78	1912940	94.63	30	120	
In	115	1	He	1060792	0.56	1142978	92.81	30	120	
Tb	159	1	He	2638054	1.21	2736958	96.39	30	120	
Ho	165	1	He	2662543	0.37	2784764	95.61	30	120	
Bi	209	1	He	1854750	2.30	1889571	98.16	30	120	

Sample Report

Sample Table

Sample Name	LIN 8
Data File Name	038SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:25:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.875	1.875	0.46	10322	0.02	10000	
B	11	45	2	NoGas	81.594	81.594	0.46	300920	0.03	300	
Na	23	45	1	He	397828.232	397828.232	4.25	596854139	0.07	500000	
Mg	24	45	1	He	399281.848	399281.848	4.88	344005394	0.12	500000	
Al	27	45	1	He	194562.490	194562.490	4.69	97481329	0.20	200000	
K	39	45	1	He	398153.776	398153.776	5.16	372467793	0.11	500000	
Ca	44	45	1	He	393513.984	393513.984	5.10	18976894	2.07	500000	
Ti	47	45	1	He	0.141	0.141	14.90	54	0.26	2500	
V	51	45	1	He	0.242	0.242	42.29	2042	0.01	10000	
Cr	52	45	1	He	0.803	0.803	0.75	9698	0.01	10000	
Mn	55	45	1	He	2.720	2.720	5.56	16342	0.02	10000	
Fe	56	45	1	He	197243.371	197243.371	4.91	1388286949	0.01	200000	
Co	59	45	1	He	0.689	0.689	3.14	7272	0.01	10000	
Ni	60	45	1	He	0.756	0.756	7.65	2248	0.03	10000	
Cu	63	45	1	He	2.436	2.436	5.06	17686	0.01	10000	
Zn	66	45	1	He	1.394	1.394	8.80	2832	0.05	10000	
As	75	115	1	He	0.687	0.687	1.40	910	0.08	10000	
Se	78	115	1	He	1.078	1.078	14.06	196	0.55	10000	
Sr	88	45	1	He	11.947	11.947	5.21	83198	0.01	10000	
Mo	95	103	1	He	0.254	0.254	17.21	1335	0.02	2000	
Ag	107	103	1	He	0.148	0.148	5.53	1231	0.01	300	
Cd	111	115	1	He	0.777	0.777	13.01	2164	0.04	4000	
Sn	118	115	1	He	0.355	0.355	36.87	3078	0.01	2000	
Sb	123	115	1	He	1.145	1.145	0.87	4707	0.02	300	
Ba	137	115	1	He	0.452	0.452	2.77	820	0.06	10000	
W	182	159	1	He	0.213	0.213	31.36	4308	0.00	2500	
Tl	205	165	1	He	0.984	0.984	12.80	20138	0.00	5000	
Pb	208	165	1	He	0.902	0.902	7.39	22735	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1669930	2.15	1981019	84.30	30	120	
Sc	45	1	He	781501	3.90	833672	93.74	30	120	
Sc	45	2	NoGas	7134101	0.70	7685379	92.83	30	120	
Rh	103	1	He	1524887	3.06	1912940	79.71	30	120	
In	115	1	He	941979	1.15	1142978	82.41	30	120	
Tb	159	1	He	2508373	0.32	2736958	91.65	30	120	
Ho	165	1	He	2552469	1.14	2784764	91.66	30	120	
Bi	209	1	He	1348118	0.11	1889571	71.35	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	039_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:29:13-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	1.501	2.4	8914	2.0	1	Blank Failed
B	11	45	2	NoGas	49.601	1.3	191933	1.4	20	Blank Failed
Na	23	45	1	He	118.316	25.1	208095	19.1	400	
Mg	24	45	1	He	44.938	27.3	38866	24.6	1000	
Al	27	45	1	He	22.492	22.5	11654	19.4	50	
K	39	45	1	He	90.214	23.7	149266	11.5	1000	
Ca	44	45	1	He	41.732	23.1	2290	18.0	1000	
Ti	47	45	1	He	0.024	80.1	21	24.1	20	
V	51	45	1	He	0.101	30.3	1019	18.3	2	
Cr	52	45	1	He	0.165	19.1	4597	4.0	2	
Mn	55	45	1	He	0.070	12.0	743	5.1	2	
Fe	56	45	1	He	86.894	34.3	593797	32.3	50	Blank Failed
Co	59	45	1	He	0.109	4.2	1204	4.9	1	
Ni	60	45	1	He	0.071	27.1	480	8.4	2	
Cu	63	45	1	He	0.953	3.2	7455	1.7	2	
Zn	66	45	1	He	0.886	6.8	2031	2.8	20	
As	75	115	1	He	0.175	16.9	467	7.4	2	
Se	78	115	1	He	0.568	22.8	181	7.0	2	
Sr	88	45	1	He	0.072	9.0	607	5.9	10	
Mo	95	103	1	He	-0.055	-12.0	636	3.2	2	
Ag	107	103	1	He	0.133	5.5	1371	6.7	0.2	
Cd	111	115	1	He	0.305	5.5	1730	1.7	0.2	Blank Failed
Sn	118	115	1	He	0.345	9.6	3593	4.0	10	
Sb	123	115	1	He	0.445	4.4	2342	3.9	1	
Ba	137	115	1	He	0.084	10.1	214	8.0	5	
W	182	159	1	He	0.096	26.9	3775	6.2	10	
Tl	205	165	1	He	0.289	4.2	6696	4.8	0.5	
Pb	208	165	1	He	0.198	6.3	6076	5.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1796333	0.56	1981019	90.68	30	120	
Sc	45	1	He	744404	1.26	833672	89.29	30	120	
Sc	45	2	NoGas	7219157	1.38	7685379	93.93	30	120	
Rh	103	1	He	1887611	1.42	1912940	98.68	30	120	
In	115	1	He	1112930	0.18	1142978	97.37	30	120	
Tb	159	1	He	2785345	0.50	2736958	101.77	30	120	
Ho	165	1	He	2818957	1.22	2784764	101.23	30	120	
Bi	209	1	He	1937781	1.27	1889571	102.55	30	120	

Sample Report

Sample Table

Sample Name	LIN 9
Data File Name	040SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:33:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.037	1.037	2.04	6027	0.02	10000	
B	11	45	2	NoGas	49.082	49.082	2.50	197068	0.02	300	
Na	23	45	1	He	502406.891	502406.891	4.13	766438577	0.07	500000	>LDR
Mg	24	45	1	He	507363.120	507363.120	2.96	444668723	0.11	500000	>LDR
Al	27	45	1	He	244683.813	244683.813	3.63	124688537	0.20	200000	>LDR
K	39	45	1	He	505458.823	505458.823	4.40	480908544	0.11	500000	>LDR
Ca	44	45	1	He	499115.366	499115.366	4.07	24481275	2.04	500000	
Ti	47	45	1	He	0.121	0.121	41.35	50	0.24	2500	
V	51	45	1	He	0.037	0.037	210.40	637	0.01	10000	
Cr	52	45	1	He	0.791	0.791	6.81	9759	0.01	10000	
Mn	55	45	1	He	3.151	3.151	2.51	19199	0.02	10000	
Fe	56	45	1	He	245184.923	245184.923	3.54	1755328392	0.01	200000	>LDR
Co	59	45	1	He	0.702	0.702	6.19	7532	0.01	10000	
Ni	60	45	1	He	0.829	0.829	6.70	2474	0.03	10000	
Cu	63	45	1	He	2.718	2.718	4.82	19892	0.01	10000	
Zn	66	45	1	He	1.238	1.238	6.70	2662	0.05	10000	
As	75	115	1	He	0.422	0.422	2.77	656	0.06	10000	
Se	78	115	1	He	0.631	0.631	10.97	162	0.39	10000	
Sr	88	45	1	He	14.738	14.738	2.91	104387	0.01	10000	
Mo	95	103	1	He	0.307	0.307	17.58	1413	0.02	2000	
Ag	107	103	1	He	0.078	0.078	9.79	630	0.01	300	
Cd	111	115	1	He	0.271	0.271	0.79	1441	0.02	4000	
Sn	118	115	1	He	0.167	0.167	36.24	2423	0.01	2000	
Sb	123	115	1	He	1.175	1.175	2.44	4920	0.02	300	
Ba	137	115	1	He	0.326	0.326	4.60	613	0.05	10000	
W	182	159	1	He	0.210	0.210	13.20	4319	0.00	2500	
Tl	205	165	1	He	0.263	0.263	4.18	5509	0.00	5000	
Pb	208	165	1	He	0.655	0.655	1.94	16548	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1749208	1.82	1981019	88.30	30	120	
Sc	45	1	He	794452	3.04	833672	95.30	30	120	
Sc	45	2	NoGas	7485183	2.04	7685379	97.40	30	120	
Rh	103	1	He	1464770	2.69	1912940	76.57	30	120	
In	115	1	He	960413	1.20	1142978	84.03	30	120	
Tb	159	1	He	2531776	1.82	2736958	92.50	30	120	
Ho	165	1	He	2532073	0.24	2784764	90.93	30	120	
Bi	209	1	He	1329044	0.44	1889571	70.34	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	041_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:36:55-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.963	5.3	5709	4.7	1	
B	11	45	2	NoGas	31.555	0.8	130697	1.1	20	Blank Failed
Na	23	45	1	He	197.590	21.0	320184	16.6	400	
Mg	24	45	1	He	47.528	21.1	40859	18.2	1000	
Al	27	45	1	He	23.751	25.4	12205	21.6	50	
K	39	45	1	He	120.701	23.1	175799	12.3	1000	
Ca	44	45	1	He	42.372	27.5	2310	21.2	1000	
Ti	47	45	1	He	-0.010	-298.6	12	63.0	20	
V	51	45	1	He	0.064	71.2	782	38.7	2	
Cr	52	45	1	He	0.038	30.7	3662	3.0	2	
Mn	55	45	1	He	-0.001	-327.4	350	1.0	2	
Fe	56	45	1	He	92.392	32.5	628099	30.0	50	Blank Failed
Co	59	45	1	He	0.042	15.2	541	10.0	1	
Ni	60	45	1	He	-0.028	-68.3	239	20.9	2	
Cu	63	45	1	He	0.535	5.1	4790	5.4	2	
Zn	66	45	1	He	0.372	5.9	1348	3.4	20	
As	75	115	1	He	0.088	21.3	366	6.4	2	
Se	78	115	1	He	0.215	30.5	147	4.1	2	
Sr	88	45	1	He	0.028	24.8	314	16.5	10	
Mo	95	103	1	He	-0.099	-24.1	503	16.8	2	
Ag	107	103	1	He	0.052	13.4	556	13.2	0.2	
Cd	111	115	1	He	0.159	24.1	1483	4.9	0.2	
Sn	118	115	1	He	0.213	40.7	3030	12.6	10	
Sb	123	115	1	He	0.357	4.0	1949	3.0	1	
Ba	137	115	1	He	0.037	37.3	120	23.7	5	
W	182	159	1	He	0.073	40.2	3601	7.3	10	
Tl	205	165	1	He	0.105	2.8	2578	2.5	0.5	
Pb	208	165	1	He	0.089	6.0	3127	4.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1780135	1.09	1981019	89.86	30	120	
Sc	45	1	He	742184	1.80	833672	89.03	30	120	
Sc	45	2	NoGas	7346012	0.80	7685379	95.58	30	120	
Rh	103	1	He	1920901	1.47	1912940	100.42	30	120	
In	115	1	He	1118901	0.36	1142978	97.89	30	120	
Tb	159	1	He	2807499	0.24	2736958	102.58	30	120	
Ho	165	1	He	2799616	0.69	2784764	100.53	30	120	
Bi	209	1	He	1927665	0.76	1889571	102.02	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	042_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:40:48-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.815	0.385	290220	1.10	50	99.6	89.5	110.5	
B	11	45	2	NoGas	76.903	1.697	298677	0.87	50	153.8	89.5	110.5	CCV Failed
Na	23	45	1	He	23956.224	4.661	39070136	0.80	25000	95.8	89.5	110.5	
Mg	24	45	1	He	23928.165	4.185	22395447	0.94	25000	95.7	89.5	110.5	
Al	27	45	1	He	246.088	4.368	134970	0.85	250	98.4	89.5	110.5	
K	39	45	1	He	24394.259	4.577	24860672	0.91	25000	97.6	89.5	110.5	
Ca	44	45	1	He	23775.709	4.112	1245933	0.91	25000	95.1	89.5	110.5	
Ti	47	45	1	He	48.280	3.298	14465	1.96	50	96.6	89.5	110.5	
V	51	45	1	He	48.599	4.078	361290	0.98	50	97.2	89.5	110.5	
Cr	52	45	1	He	49.168	3.836	411351	1.24	50	98.3	89.5	110.5	
Mn	55	45	1	He	251.250	2.679	1603535	2.55	250	100.5	89.5	110.5	
Fe	56	45	1	He	12288.003	3.809	93976870	1.74	12500	98.3	89.5	110.5	
Co	59	45	1	He	49.282	3.852	554987	1.37	50	98.6	89.5	110.5	
Ni	60	45	1	He	49.977	3.773	138543	1.43	50	100.0	89.5	110.5	
Cu	63	45	1	He	50.202	4.725	364424	1.14	50	100.4	89.5	110.5	
Zn	66	45	1	He	50.210	3.810	76577	1.36	50	100.4	89.5	110.5	
As	75	115	1	He	49.311	1.724	58452	1.49	50	98.6	89.5	110.5	
Se	78	115	1	He	49.405	1.117	4976	0.87	50	98.8	89.5	110.5	
Sr	88	45	1	He	49.987	3.987	377726	1.05	50	100.0	89.5	110.5	
Mo	95	103	1	He	48.742	1.284	160648	1.63	50	97.5	89.5	110.5	
Ag	107	103	1	He	50.045	1.061	507038	0.65	50	100.1	89.5	110.5	
Cd	111	115	1	He	50.603	1.363	89398	1.08	50	101.2	89.5	110.5	
Sn	118	115	1	He	49.313	0.745	217149	0.78	50	98.6	89.5	110.5	
Sb	123	115	1	He	51.555	0.748	235765	0.83	50	103.1	89.5	110.5	
Ba	137	115	1	He	50.764	1.398	103371	1.24	50	101.5	89.5	110.5	
W	182	159	1	He	48.633	1.487	422363	0.76	50	97.3	89.5	110.5	
Tl	205	165	1	He	45.562	1.211	1010787	1.68	50	91.1	89.5	110.5	
Pb	208	165	1	He	51.333	0.836	1379026	1.16	50	102.7	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1784652	1.36	1981019	90.09	30	120	
Sc	45	1	He	849029	5.14	833672	101.84	30	120	
Sc	45	2	NoGas	7487266	0.98	7685379	97.42	30	120	
Rh	103	1	He	1887013	0.50	1912940	98.64	30	120	
In	115	1	He	1105812	0.43	1142978	96.75	30	120	
Tb	159	1	He	2784561	1.09	2736958	101.74	30	120	
Ho	165	1	He	2800791	0.63	2784764	100.58	30	120	
Bi	209	1	He	1908590	1.46	1889571	101.01	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	043_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:44:39-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.781	4.9	4805	4.2	1	
B	11	45	2	NoGas	25.944	1.6	113588	1.3	20	CCB Failed
Na	23	45	1	He	33.925	9.4	93063	3.1	400	
Mg	24	45	1	He	4.932	17.0	6442	9.4	1000	
Al	27	45	1	He	1.710	12.5	1850	4.1	50	
K	39	45	1	He	22.043	18.3	94019	2.0	1000	
Ca	44	45	1	He	4.931	31.1	637	10.4	1000	
Ti	47	45	1	He	0.040	95.7	27	37.5	20	
V	51	45	1	He	0.096	18.6	1048	9.7	2	
Cr	52	45	1	He	0.015	123.8	3720	2.6	2	
Mn	55	45	1	He	0.006	91.6	413	6.4	2	
Fe	56	45	1	He	20.344	27.9	157356	23.6	50	
Co	59	45	1	He	0.022	17.2	358	12.7	1	
Ni	60	45	1	He	-0.035	-65.3	238	25.2	2	
Cu	63	45	1	He	0.325	9.3	3677	3.5	2	
Zn	66	45	1	He	0.258	25.0	1273	5.1	20	
As	75	115	1	He	0.027	67.5	300	7.2	2	
Se	78	115	1	He	-0.016	-302.1	127	3.9	2	
Sr	88	45	1	He	0.006	67.4	176	16.6	10	
Mo	95	103	1	He	0.785	32.3	3530	24.3	2	
Ag	107	103	1	He	0.021	39.7	239	35.9	0.2	
Cd	111	115	1	He	0.094	8.8	1402	1.2	0.2	
Sn	118	115	1	He	0.577	11.3	4753	6.4	10	
Sb	123	115	1	He	0.748	8.3	3853	7.8	1	
Ba	137	115	1	He	0.013	31.1	71	11.8	5	
W	182	159	1	He	1.057	19.6	12213	13.9	10	
Tl	205	165	1	He	0.081	12.4	2086	10.3	0.5	
Pb	208	165	1	He	0.054	9.6	2216	5.8	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1839609	1.14	1981019	92.86	30	120	
Sc	45	1	He	790258	2.09	833672	94.79	30	120	
Sc	45	2	NoGas	7543967	0.39	7685379	98.16	30	120	
Rh	103	1	He	1965636	0.27	1912940	102.75	30	120	
In	115	1	He	1147547	0.29	1142978	100.40	30	120	
Tb	159	1	He	2822184	0.88	2736958	103.11	30	120	
Ho	165	1	He	2840345	0.60	2784764	102.00	30	120	
Bi	209	1	He	1967675	0.37	1889571	104.13	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	044_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:48:31-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.423	0.532	295400	0.86	50	98.8	89.5	110.5	
B	11	45	2	NoGas	71.135	1.519	283012	0.88	50	142.3	89.5	110.5	CCV Failed
Na	23	45	1	He	24208.740	4.819	40000472	1.19	25000	96.8	89.5	110.5	
Mg	24	45	1	He	24220.911	4.348	22968869	1.82	25000	96.9	89.5	110.5	
Al	27	45	1	He	240.334	4.233	133588	1.48	250	96.1	89.5	110.5	
K	39	45	1	He	24314.987	5.678	25096722	0.85	25000	97.3	89.5	110.5	
Ca	44	45	1	He	23740.950	4.566	1260347	1.08	25000	95.0	89.5	110.5	
Ti	47	45	1	He	49.302	6.919	14946	1.97	50	98.6	89.5	110.5	
V	51	45	1	He	49.315	4.968	371324	0.61	50	98.6	89.5	110.5	
Cr	52	45	1	He	49.444	4.315	419035	1.33	50	98.9	89.5	110.5	
Mn	55	45	1	He	249.679	5.445	1612965	0.96	250	99.9	89.5	110.5	
Fe	56	45	1	He	12316.233	4.659	95404434	1.13	12500	98.5	89.5	110.5	
Co	59	45	1	He	49.571	4.860	565414	1.01	50	99.1	89.5	110.5	
Ni	60	45	1	He	50.132	4.467	140773	1.21	50	100.3	89.5	110.5	
Cu	63	45	1	He	50.109	4.523	368561	1.13	50	100.2	89.5	110.5	
Zn	66	45	1	He	50.279	3.702	77699	1.95	50	100.6	89.5	110.5	
As	75	115	1	He	49.530	1.168	59267	1.48	50	99.1	89.5	110.5	
Se	78	115	1	He	49.433	0.709	5026	1.00	50	98.9	89.5	110.5	
Sr	88	45	1	He	50.111	4.421	383610	1.16	50	100.2	89.5	110.5	
Mo	95	103	1	He	49.146	1.938	163959	2.22	50	98.3	89.5	110.5	
Ag	107	103	1	He	49.568	1.816	508355	1.62	50	99.1	89.5	110.5	
Cd	111	115	1	He	50.312	0.580	89732	0.93	50	100.6	89.5	110.5	
Sn	118	115	1	He	49.281	1.998	219066	2.33	50	98.6	89.5	110.5	
Sb	123	115	1	He	51.339	0.311	236987	0.36	50	102.7	89.5	110.5	
Ba	137	115	1	He	50.499	1.153	103802	1.37	50	101.0	89.5	110.5	
W	182	159	1	He	48.174	1.029	423325	0.80	50	96.3	89.5	110.5	
Tl	205	165	1	He	44.944	1.200	1012880	1.25	50	89.9	89.5	110.5	
Pb	208	165	1	He	50.646	1.305	1382215	1.67	50	101.3	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1830860	0.72	1981019	92.42	30	120	
Sc	45	1	He	860386	5.70	833672	103.20	30	120	
Sc	45	2	NoGas	7632191	0.78	7685379	99.31	30	120	
Rh	103	1	He	1910160	0.78	1912940	99.85	30	120	
In	115	1	He	1116222	0.36	1142978	97.66	30	120	
Tb	159	1	He	2817103	0.58	2736958	102.93	30	120	
Ho	165	1	He	2845323	0.94	2784764	102.17	30	120	
Bi	209	1	He	1888769	1.15	1889571	99.96	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	045_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:52:21-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.571	3.6	3608	1.9	1	
B	11	45	2	NoGas	22.292	1.7	101620	1.4	20	CCB Failed
Na	23	45	1	He	22.482	5.2	76395	1.3	400	
Mg	24	45	1	He	1.692	40.8	3652	15.7	1000	
Al	27	45	1	He	0.137	148.8	1062	9.3	50	
K	39	45	1	He	16.652	5.0	89739	1.7	1000	
Ca	44	45	1	He	2.473	65.4	523	15.4	1000	
Ti	47	45	1	He	0.058	130.3	32	65.7	20	
V	51	45	1	He	0.029	247.2	591	85.1	2	
Cr	52	45	1	He	0.011	290.8	3729	8.0	2	
Mn	55	45	1	He	0.002	440.3	389	10.7	2	
Fe	56	45	1	He	17.845	30.8	141057	27.1	50	
Co	59	45	1	He	0.023	14.5	374	8.6	1	
Ni	60	45	1	He	-0.053	-14.2	193	9.1	2	
Cu	63	45	1	He	0.250	5.7	3206	3.5	2	
Zn	66	45	1	He	0.238	16.6	1258	4.5	20	
As	75	115	1	He	-0.008	-32.3	258	1.4	2	
Se	78	115	1	He	-0.045	-162.4	125	6.1	2	
Sr	88	45	1	He	0.009	33.1	198	9.9	10	
Mo	95	103	1	He	0.835	29.8	3726	23.4	2	
Ag	107	103	1	He	0.009	23.5	118	20.1	0.2	
Cd	111	115	1	He	0.074	8.7	1370	1.3	0.2	
Sn	118	115	1	He	0.577	16.3	4768	9.0	10	
Sb	123	115	1	He	0.777	8.4	4003	7.5	1	
Ba	137	115	1	He	0.011	65.1	69	22.9	5	
W	182	159	1	He	1.128	17.6	12824	12.7	10	
Tl	205	165	1	He	0.073	6.1	1898	5.7	0.5	
Pb	208	165	1	He	0.051	14.1	2122	9.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1874746	2.93	1981019	94.64	30	120	
Sc	45	1	He	797098	1.04	833672	95.61	30	120	
Sc	45	2	NoGas	7653903	0.72	7685379	99.59	30	120	
Rh	103	1	He	1976996	1.17	1912940	103.35	30	120	
In	115	1	He	1150742	0.47	1142978	100.68	30	120	
Tb	159	1	He	2819858	0.98	2736958	103.03	30	120	
Ho	165	1	He	2830388	0.44	2784764	101.64	30	120	
Bi	209	1	He	1956568	0.66	1889571	103.55	30	120	

Sample Report

Sample Table

Sample Name	HIGH STD
Data File Name	046SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:56:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2025.989	2025.989	0.07	11572938	0.02	10000	
B	11	45	2	NoGas	231.848	231.848	0.57	850664	0.03	300	
Na	23	45	1	He	20022.812	20022.812	6.10	31916356	0.06	500000	
Mg	24	45	1	He	19734.226	19734.226	3.82	18064036	0.11	500000	
Al	27	45	1	He	19078.701	19078.701	5.04	10150277	0.19	200000	
K	39	45	1	He	19811.179	19811.179	5.56	19747348	0.10	500000	
Ca	44	45	1	He	18283.605	18283.605	5.97	936254	1.95	500000	
Ti	47	45	1	He	196.375	196.375	6.20	57410	0.34	2500	
V	51	45	1	He	1938.856	1938.856	5.05	14072664	0.01	10000	
Cr	52	45	1	He	1994.932	1994.932	5.66	16157799	0.01	10000	
Mn	55	45	1	He	1975.742	1975.742	5.90	12312033	0.02	10000	
Fe	56	45	1	He	20282.381	20282.381	5.05	151584683	0.01	200000	
Co	59	45	1	He	2056.927	2056.927	5.51	22628830	0.01	10000	
Ni	60	45	1	He	2104.970	2104.970	5.69	5687215	0.04	10000	
Cu	63	45	1	He	2153.229	2153.229	5.45	15212161	0.01	10000	
Zn	66	45	1	He	2149.948	2149.948	5.36	3164161	0.07	10000	
As	75	115	1	He	2228.380	2228.380	1.49	2442177	0.09	10000	
Se	78	115	1	He	2075.723	2075.723	0.98	189398	1.10	10000	
Sr	88	45	1	He	2154.549	2154.549	5.26	15906610	0.01	10000	
Mo	95	103	1	He	199.015	199.015	3.33	642902	0.03	2000	
Ag	107	103	1	He	226.559	226.559	0.96	2259141	0.01	300	
Cd	111	115	1	He	2355.983	2355.983	0.60	3814642	0.06	4000	
Sn	118	115	1	He	2403.013	2403.013	1.09	9734123	0.02	2000	>LDR
Sb	123	115	1	He	227.849	227.849	0.46	966562	0.02	300	
Ba	137	115	1	He	2438.363	2438.363	1.30	4608550	0.05	10000	
W	182	159	1	He	226.289	226.289	2.60	1967233	0.01	2500	
Tl	205	165	1	He	519.522	519.522	0.95	11551061	0.00	5000	
Pb	208	165	1	He	2351.650	2351.650	0.42	63300566	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1750433	0.57	1981019	88.36	30	120	
Sc	45	1	He	830523	6.51	833672	99.62	30	120	
Sc	45	2	NoGas	7370553	1.12	7685379	95.90	30	120	
Rh	103	1	He	1857300	1.42	1912940	97.09	30	120	
In	115	1	He	1026790	0.20	1142978	89.83	30	120	
Tb	159	1	He	2802742	1.15	2736958	102.40	30	120	
Ho	165	1	He	2807794	1.08	2784764	100.83	30	120	
Bi	209	1	He	1898257	0.71	1889571	100.46	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176157/1-a
Data File Name	047_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T12:59:40-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	1.278	7.0	6998	5.7	1	Blank Failed
B	11	45	2	NoGas	29.733	1.2	117448	0.3	20	Blank Failed
Na	23	45	1	He	50.084	2.6	111702	1.4	400	
Mg	24	45	1	He	2.388	24.0	4023	13.4	1000	
Al	27	45	1	He	4.155	11.8	2936	8.8	50	
K	39	45	1	He	25.165	10.4	92140	4.1	1000	
Ca	44	45	1	He	9.156	9.3	802	6.1	1000	
Ti	47	45	1	He	0.308	19.1	97	17.2	20	
V	51	45	1	He	0.686	29.5	4885	28.6	2	
Cr	52	45	1	He	1.359	1.8	13392	1.9	2	
Mn	55	45	1	He	0.256	21.7	1806	19.0	2	
Fe	56	45	1	He	21.189	33.1	156120	32.2	50	
Co	59	45	1	He	0.266	22.8	2785	23.3	1	
Ni	60	45	1	He	0.212	6.1	829	5.4	2	
Cu	63	45	1	He	3.326	15.3	22723	15.9	2	Blank Failed
Zn	66	45	1	He	4.353	4.3	6668	5.3	20	
As	75	115	1	He	0.651	8.2	982	6.0	2	
Se	78	115	1	He	1.256	3.8	237	2.1	2	
Sr	88	45	1	He	0.272	9.5	1949	10.4	10	
Mo	95	103	1	He	4.419	32.1	14959	31.1	2	Blank Failed
Ag	107	103	1	He	0.031	8.7	324	9.3	0.2	
Cd	111	115	1	He	0.745	23.6	2381	12.4	0.2	Blank Failed
Sn	118	115	1	He	22.034	24.7	94019	24.4	10	Blank Failed
Sb	123	115	1	He	3.137	0.4	14005	0.4	1	Blank Failed
Ba	137	115	1	He	0.456	12.7	930	12.2	5	
W	182	159	1	He	4.802	28.5	43110	26.1	10	
Tl	205	165	1	He	0.706	30.3	15502	28.2	0.5	Blank Failed
Pb	208	165	1	He	0.557	19.6	15318	17.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1653660	1.75	1981019	83.48	30	120	
Sc	45	1	He	750261	1.57	833672	89.99	30	120	
Sc	45	2	NoGas	6948582	0.91	7685379	90.41	30	120	
Rh	103	1	He	1841371	1.22	1912940	96.26	30	120	
In	115	1	He	1058849	0.38	1142978	92.64	30	120	
Tb	159	1	He	2708315	0.54	2736958	98.95	30	120	
Ho	165	1	He	2739316	2.16	2784764	98.37	30	120	
Bi	209	1	He	2013966	1.04	1889571	106.58	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176157/2-a
Data File Name	048_LCS.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:03:33-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	984.436	984.436	1.876	5230960	0.69	1000	98.4	79.5	120.5	
B	11	2	NoGas	134.851	134.851	0.372	466550	0.20	100	134.9	79.5	120.5	LCS Failed
Na	23	1	He	10130.262	10130.262	2.151	14577292	0.92	10000	101.3	79.5	120.5	
Mg	24	1	He	10180.961	10180.961	2.273	8394436	1.26	10000	101.8	79.5	120.5	
Al	27	1	He	9635.980	9635.980	1.465	4620569	1.66	10000	96.4	79.5	120.5	
K	39	1	He	10083.224	10083.224	2.898	9091724	0.72	10000	100.8	79.5	120.5	
Ca	44	1	He	9311.167	9311.167	2.425	429994	1.06	10000	93.1	79.5	120.5	
Ti	47	1	He	101.219	101.219	1.953	26690	1.87	100	101.2	79.5	120.5	
V	51	1	He	1025.268	1025.268	3.243	6704659	0.89	1000	102.5	79.5	120.5	
Cr	52	1	He	1052.465	1052.465	3.547	7683329	1.12	1000	105.2	79.5	120.5	
Mn	55	1	He	1037.983	1037.983	3.773	5829016	0.99	1000	103.8	79.5	120.5	
Fe	56	1	He	10626.572	10626.572	2.085	71576137	1.20	10000	106.3	79.5	120.5	
Co	59	1	He	1107.925	1107.925	2.442	10985576	1.16	1000	110.8	79.5	120.5	
Ni	60	1	He	1153.850	1153.850	1.732	2810536	1.70	1000	115.4	79.5	120.5	
Cu	63	1	He	1146.096	1146.096	2.281	7298887	1.85	1000	114.6	79.5	120.5	
Zn	66	1	He	1156.101	1156.101	1.264	1534217	2.24	1000	115.6	79.5	120.5	
As	75	1	He	993.222	993.222	0.922	1061036	0.47	1000	99.3	79.5	120.5	
Se	78	1	He	1010.978	1010.978	0.719	89963	0.29	1000	101.1	79.5	120.5	
Sr	88	1	He	1115.953	1115.953	2.799	7423702	0.77	1000	111.6	79.5	120.5	
Mo	95	1	He	106.960	106.960	1.337	337636	1.19	100	107.0	79.5	120.5	
Ag	107	1	He	102.886	102.886	1.507	1001118	0.38	100	102.9	79.5	120.5	
Cd	111	1	He	1184.524	1184.524	1.071	1869794	0.99	1000	118.5	79.5	120.5	
Sn	118	1	He	1179.788	1179.788	1.115	4658670	0.63	1000	118.0	79.5	120.5	
Sb	123	1	He	110.974	110.974	0.841	458957	0.40	100	111.0	79.5	120.5	
Ba	137	1	He	1193.121	1193.121	0.906	2197839	0.47	1000	119.3	79.5	120.5	
W	182	1	He	102.375	102.375	1.328	872583	1.40	100	102.4	79.5	120.5	
Tl	205	1	He	263.073	263.073	0.978	5657818	1.51	250	105.2	79.5	120.5	
Pb	208	1	He	1187.489	1187.489	1.932	30912986	0.81	1000	118.7	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1628545	1.35	1981019	82.21	30	120	
Sc	45	1	He	747107	3.10	833672	89.62	30	120	
Sc	45	2	NoGas	6847011	0.29	7685379	89.09	30	120	
Rh	103	1	He	1812476	1.14	1912940	94.75	30	120	
In	115	1	He	1000760	0.56	1142978	87.56	30	120	
Tb	159	1	He	2742632	0.24	2736958	100.21	30	120	
Ho	165	1	He	2715835	1.21	2784764	97.52	30	120	
Bi	209	1	He	1900466	1.15	1889571	100.58	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-a
Data File Name	049SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:07:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.015	1.015	2.97	5831	0.02	10000	
B	11	45	2	NoGas	148.074	148.074	0.54	546023	0.03	300	
Na	23	45	1	He	42969.478	42969.478	2.67	64509996	0.07	500000	
Mg	24	45	1	He	29710.294	29710.294	1.21	25609565	0.12	500000	
Al	27	45	1	He	4.947	4.947	2.56	3453	0.14	200000	
K	39	45	1	He	2719.074	2719.074	1.80	2616607	0.10	500000	
Ca	44	45	1	He	18455.454	18455.454	1.95	890731	2.07	500000	
Ti	47	45	1	He	0.307	0.307	23.20	100	0.31	2500	
V	51	45	1	He	0.160	0.160	51.91	1476	0.01	10000	
Cr	52	45	1	He	1.409	1.409	1.36	14321	0.01	10000	
Mn	55	45	1	He	0.393	0.393	5.66	2680	0.01	10000	
Fe	56	45	1	He	31.360	31.360	2.41	233656	0.01	200000	
Co	59	45	1	He	0.160	0.160	23.31	1789	0.01	10000	
Ni	60	45	1	He	0.157	0.157	11.43	724	0.02	10000	
Cu	63	45	1	He	1.984	1.984	2.55	14686	0.01	10000	
Zn	66	45	1	He	4.446	4.446	2.25	7068	0.06	10000	
As	75	115	1	He	0.970	0.970	2.92	1337	0.07	10000	
Se	78	115	1	He	0.732	0.732	19.37	187	0.39	10000	
Sr	88	45	1	He	384.524	384.524	1.60	2674976	0.01	10000	
Mo	95	103	1	He	0.975	0.975	20.18	3860	0.03	2000	
Ag	107	103	1	He	0.016	0.016	21.12	176	0.01	300	
Cd	111	115	1	He	0.328	0.328	20.43	1678	0.02	4000	
Sn	118	115	1	He	4.435	4.435	10.75	20413	0.02	2000	
Sb	123	115	1	He	2.090	2.090	1.34	9396	0.02	300	
Ba	137	115	1	He	18.590	18.590	1.70	36149	0.05	10000	
W	182	159	1	He	1.519	1.519	16.79	15757	0.01	2500	
Tl	205	165	1	He	0.293	0.293	20.54	6590	0.00	5000	
Pb	208	165	1	He	0.256	0.256	13.92	7422	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1727362	1.64	1981019	87.20	30	120	
Sc	45	1	He	780917	1.43	833672	93.67	30	120	
Sc	45	2	NoGas	7320985	0.86	7685379	95.26	30	120	
Rh	103	1	He	1816753	1.35	1912940	94.97	30	120	
In	115	1	He	1055363	1.42	1142978	92.33	30	120	
Tb	159	1	He	2737498	1.48	2736958	100.02	30	120	
Ho	165	1	He	2743376	2.22	2784764	98.51	30	120	
Bi	209	1	He	1882892	2.07	1889571	99.65	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49236-d-3-a@5
Data File Name	050SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:10:56-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.684	0.684	5.80	4230	0.02	10000	
B	11	45	2	NoGas	43.799	43.799	1.56	181888	0.02	300	
Na	23	45	1	He	8819.505	8819.505	1.00	14092034	0.06	500000	
Mg	24	45	1	He	6134.851	6134.851	1.99	5615247	0.11	500000	
Al	27	45	1	He	22.235	22.235	0.85	12862	0.17	200000	
K	39	45	1	He	546.705	546.705	0.59	619833	0.09	500000	
Ca	44	45	1	He	3840.877	3840.877	0.34	197125	1.95	500000	
Ti	47	45	1	He	0.046	0.046	150.63	30	0.15	2500	
V	51	45	1	He	-0.001	-0.001	-2842.13	397	0.00	10000	
Cr	52	45	1	He	0.346	0.346	2.80	6587	0.01	10000	
Mn	55	45	1	He	0.264	0.264	6.31	2043	0.01	10000	
Fe	56	45	1	He	5.917	5.917	0.81	57779	0.01	200000	
Co	59	45	1	He	0.047	0.047	21.23	657	0.01	10000	
Ni	60	45	1	He	0.006	0.006	36.85	360	0.00	10000	
Cu	63	45	1	He	0.758	0.758	2.60	6918	0.01	10000	
Zn	66	45	1	He	1.792	1.792	0.60	3595	0.05	10000	
As	75	115	1	He	0.249	0.249	8.94	576	0.04	10000	
Se	78	115	1	He	0.098	0.098	27.65	140	0.07	10000	
Sr	88	45	1	He	72.484	72.484	0.55	535390	0.01	10000	
Mo	95	103	1	He	0.015	0.015	29.15	904	0.00	2000	
Ag	107	103	1	He	0.006	0.006	11.45	89	0.01	300	
Cd	111	115	1	He	0.108	0.108	15.43	1437	0.01	4000	
Sn	118	115	1	He	0.668	0.668	4.46	5197	0.01	2000	
Sb	123	115	1	He	0.707	0.707	3.66	3682	0.02	300	
Ba	137	115	1	He	3.619	3.619	1.05	7736	0.05	10000	
W	182	159	1	He	0.302	0.302	7.95	5701	0.01	2500	
Tl	205	165	1	He	0.067	0.067	2.22	1789	0.00	5000	
Pb	208	165	1	He	0.067	0.067	15.22	2615	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1843049	0.78	1981019	93.04	30	120	
Sc	45	1	He	828880	0.96	833672	99.43	30	120	
Sc	45	2	NoGas	7655947	1.19	7685379	99.62	30	120	
Rh	103	1	He	1969419	0.87	1912940	102.95	30	120	
In	115	1	He	1154654	0.51	1142978	101.02	30	120	
Tb	159	1	He	2862360	0.08	2736958	104.58	30	120	
Ho	165	1	He	2894347	0.69	2784764	103.94	30	120	
Bi	209	1	He	1996935	0.52	1889571	105.68	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176157/1-a
Data File Name	051_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:16:42-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.626	12.3	3619	12.9	1	
B	11	45	2	NoGas	23.212	2.2	99062	2.1	20	Blank Failed
Na	23	45	1	He	22.433	8.2	76730	0.5	400	
Mg	24	45	1	He	0.621	54.8	2723	7.2	1000	
Al	27	45	1	He	1.228	14.6	1629	3.4	50	
K	39	45	1	He	0.313	593.9	74545	2.1	1000	
Ca	44	45	1	He	7.220	16.8	762	9.8	1000	
Ti	47	45	1	He	0.057	63.2	32	33.3	20	
V	51	45	1	He	0.222	60.2	1952	47.5	2	
Cr	52	45	1	He	1.161	6.3	12750	1.5	2	
Mn	55	45	1	He	0.055	19.7	716	12.6	2	
Fe	56	45	1	He	1.420	13.8	23357	4.0	50	
Co	59	45	1	He	0.051	12.9	673	10.5	1	
Ni	60	45	1	He	0.005	763.8	342	24.1	2	
Cu	63	45	1	He	0.816	8.5	7085	3.3	2	
Zn	66	45	1	He	2.341	1.0	4261	4.3	20	
As	75	115	1	He	0.300	5.5	607	3.2	2	
Se	78	115	1	He	0.191	69.3	142	8.8	2	
Sr	88	45	1	He	0.070	13.4	639	13.6	10	
Mo	95	103	1	He	-0.092	-9.3	524	4.5	2	
Ag	107	103	1	He	0.007	27.3	96	20.1	0.2	
Cd	111	115	1	He	0.081	60.1	1320	6.1	0.2	
Sn	118	115	1	He	1.409	1.6	8158	1.1	10	
Sb	123	115	1	He	1.427	8.0	6766	7.2	1	Blank Failed
Ba	137	115	1	He	0.096	23.4	238	19.1	5	
W	182	159	1	He	0.193	16.9	4556	6.8	10	
Tl	205	165	1	He	0.072	8.9	1821	8.0	0.5	
Pb	208	165	1	He	0.101	3.6	3416	3.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1717649	1.14	1981019	86.71	30	120	
Sc	45	1	He	802103	4.31	833672	96.21	30	120	
Sc	45	2	NoGas	7218452	2.37	7685379	93.92	30	120	
Rh	103	1	He	1918342	1.41	1912940	100.28	30	120	
In	115	1	He	1098483	0.42	1142978	96.11	30	120	
Tb	159	1	He	2749100	0.92	2736958	100.44	30	120	
Ho	165	1	He	2770895	0.94	2784764	99.50	30	120	
Bi	209	1	He	1948342	1.41	1889571	103.11	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49236-d-3-a
Data File Name	052SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:20:34-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	988.229	988.229	2.28	5280757	0.02	10000	
B	11	45	2	NoGas	255.671	255.671	1.31	875258	0.03	300	
Na	23	45	1	He	53881.597	53881.597	3.00	76684858	0.07	500000	
Mg	24	45	1	He	40610.977	40610.977	2.40	33186395	0.12	500000	
Al	27	45	1	He	9675.027	9675.027	1.80	4598732	0.21	200000	
K	39	45	1	He	12863.253	12863.253	2.96	11478653	0.11	500000	
Ca	44	45	1	He	29056.960	29056.960	1.54	1329643	2.19	500000	
Ti	47	45	1	He	103.351	103.351	2.93	27008	0.38	2500	
V	51	45	1	He	1050.136	1050.136	3.41	6807478	0.02	10000	
Cr	52	45	1	He	1054.547	1054.547	3.49	7631963	0.01	10000	
Mn	55	45	1	He	1048.858	1048.858	2.08	5841073	0.02	10000	
Fe	56	45	1	He	10824.435	10824.435	2.18	72273702	0.01	200000	
Co	59	45	1	He	1106.629	1106.629	2.66	10877113	0.01	10000	
Ni	60	45	1	He	1136.856	1136.856	3.49	2744083	0.04	10000	
Cu	63	45	1	He	1132.659	1132.659	4.08	7147699	0.02	10000	
Zn	66	45	1	He	1116.975	1116.975	2.94	1468902	0.08	10000	
As	75	115	1	He	1023.117	1023.117	1.45	1068417	0.10	10000	
Se	78	115	1	He	1020.507	1020.507	0.90	88773	1.15	10000	
Sr	88	45	1	He	1507.386	1507.386	2.96	9940221	0.02	10000	
Mo	95	103	1	He	110.645	110.645	1.86	340798	0.03	2000	
Ag	107	103	1	He	102.559	102.559	1.08	973928	0.01	300	
Cd	111	115	1	He	1217.974	1217.974	1.89	1879321	0.06	4000	
Sn	118	115	1	He	1206.719	1206.719	1.32	4658001	0.03	2000	
Sb	123	115	1	He	111.450	111.450	0.44	450588	0.02	300	
Ba	137	115	1	He	1250.970	1250.970	1.55	2252643	0.06	10000	
W	182	159	1	He	105.356	105.356	0.67	881121	0.01	2500	
Tl	205	165	1	He	259.939	259.939	1.51	5603831	0.00	5000	
Pb	208	165	1	He	1168.814	1168.814	0.70	30504712	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1637945	2.07	1981019	82.68	30	120	
Sc	45	1	He	740607	2.90	833672	88.84	30	120	
Sc	45	2	NoGas	6890408	0.28	7685379	89.66	30	120	
Rh	103	1	He	1768823	1.25	1912940	92.47	30	120	
In	115	1	He	978310	0.63	1142978	85.59	30	120	
Tb	159	1	He	2691451	1.09	2736958	98.34	30	120	
Ho	165	1	He	2722416	0.41	2784764	97.76	30	120	
Bi	209	1	He	1832617	0.86	1889571	96.99	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-b du
Data File Name	053SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:24:07-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.819	0.819	10.66	4730	0.02	10000	
B	11	45	2	NoGas	136.652	136.652	1.23	507708	0.03	300	
Na	23	45	1	He	40815.427	40815.427	1.74	61188866	0.07	500000	
Mg	24	45	1	He	28175.854	28175.854	2.56	24246430	0.12	500000	
Al	27	45	1	He	5.024	5.024	7.98	3484	0.14	200000	
K	39	45	1	He	2563.682	2563.682	3.44	2467086	0.10	500000	
Ca	44	45	1	He	17414.280	17414.280	1.97	839206	2.08	500000	
Ti	47	45	1	He	0.268	0.268	39.45	89	0.30	2500	
V	51	45	1	He	0.094	0.094	51.56	1020	0.01	10000	
Cr	52	45	1	He	1.314	1.314	3.75	13569	0.01	10000	
Mn	55	45	1	He	0.482	0.482	4.13	3200	0.02	10000	
Fe	56	45	1	He	27.672	27.672	3.49	207391	0.01	200000	
Co	59	45	1	He	0.157	0.157	18.95	1759	0.01	10000	
Ni	60	45	1	He	0.170	0.170	10.54	756	0.02	10000	
Cu	63	45	1	He	1.656	1.656	1.02	12479	0.01	10000	
Zn	66	45	1	He	5.888	5.888	1.68	9051	0.07	10000	
As	75	115	1	He	0.851	0.851	2.52	1209	0.07	10000	
Se	78	115	1	He	0.633	0.633	13.76	178	0.35	10000	
Sr	88	45	1	He	367.434	367.434	1.30	2552429	0.01	10000	
Mo	95	103	1	He	0.738	0.738	27.79	3187	0.02	2000	
Ag	107	103	1	He	0.014	0.014	32.84	158	0.01	300	
Cd	111	115	1	He	0.286	0.286	23.28	1614	0.02	4000	
Sn	118	115	1	He	2.881	2.881	14.78	14006	0.02	2000	
Sb	123	115	1	He	1.287	1.287	2.18	5913	0.02	300	
Ba	137	115	1	He	17.621	17.621	2.04	34388	0.05	10000	
W	182	159	1	He	1.262	1.262	14.91	13781	0.01	2500	
Tl	205	165	1	He	0.214	0.214	21.68	4964	0.00	5000	
Pb	208	165	1	He	0.196	0.196	11.20	5971	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1728952	0.91	1981019	87.28	30	120	
Sc	45	1	He	779730	1.60	833672	93.53	30	120	
Sc	45	2	NoGas	7356176	0.72	7685379	95.72	30	120	
Rh	103	1	He	1857152	0.73	1912940	97.08	30	120	
In	115	1	He	1059005	0.50	1142978	92.65	30	120	
Tb	159	1	He	2775020	0.66	2736958	101.39	30	120	
Ho	165	1	He	2791048	1.42	2784764	100.23	30	120	
Bi	209	1	He	1889217	0.68	1889571	99.98	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-c ms
Data File Name	054SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:27:57-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	105.495	105.495	0.51	564426	0.02	10000	
B	11	45	2	NoGas	249.966	249.966	1.20	876746	0.03	300	
Na	23	45	1	He	51224.587	51224.587	3.70	75832414	0.07	500000	
Mg	24	45	1	He	38463.179	38463.179	2.35	32700856	0.12	500000	
Al	27	45	1	He	9410.770	9410.770	1.96	4654325	0.20	200000	
K	39	45	1	He	12378.184	12378.184	2.62	11495648	0.11	500000	
Ca	44	45	1	He	28194.563	28194.563	2.45	1342200	2.10	500000	
Ti	47	45	1	He	99.638	99.638	4.40	27080	0.37	2500	
V	51	45	1	He	100.075	100.075	2.41	675394	0.01	10000	
Cr	52	45	1	He	103.516	103.516	2.20	782774	0.01	10000	
Mn	55	45	1	He	98.255	98.255	1.66	569660	0.02	10000	
Fe	56	45	1	He	10318.864	10318.864	2.70	71672550	0.01	200000	
Co	59	45	1	He	102.913	102.913	2.36	1052585	0.01	10000	
Ni	60	45	1	He	103.587	103.587	2.52	260493	0.04	10000	
Cu	63	45	1	He	104.927	104.927	3.04	690338	0.02	10000	
Zn	66	45	1	He	107.062	107.062	2.41	147297	0.07	10000	
As	75	115	1	He	101.279	101.279	0.71	110985	0.09	10000	
Se	78	115	1	He	99.245	99.245	1.57	9145	1.09	10000	
Sr	88	45	1	He	489.509	489.509	2.56	3358706	0.01	10000	
Mo	95	103	1	He	106.362	106.362	1.01	334029	0.03	2000	
Ag	107	103	1	He	100.535	100.535	1.02	973261	0.01	300	
Cd	111	115	1	He	104.010	104.010	0.60	169094	0.06	4000	
Sn	118	115	1	He	102.386	102.386	1.59	415671	0.02	2000	
Sb	123	115	1	He	104.917	104.917	0.06	444255	0.02	300	
Ba	137	115	1	He	121.543	121.543	0.57	229261	0.05	10000	
W	182	159	1	He	99.374	99.374	1.04	856937	0.01	2500	
Tl	205	165	1	He	103.512	103.512	2.01	2261182	0.00	5000	
Pb	208	165	1	He	106.612	106.612	6.09	2819477	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1639280	1.33	1981019	82.75	30	120	
Sc	45	1	He	770564	3.34	833672	92.43	30	120	
Sc	45	2	NoGas	7057389	1.77	7685379	91.83	30	120	
Rh	103	1	He	1803201	1.24	1912940	94.26	30	120	
In	115	1	He	1024565	0.13	1142978	89.64	30	120	
Tb	159	1	He	2774602	0.62	2736958	101.38	30	120	
Ho	165	1	He	2758796	1.55	2784764	99.07	30	120	
Bi	209	1	He	1871181	0.82	1889571	99.03	30	120	

Sample Report

Sample Table

Sample Name	240-49236-a-4-a
Data File Name	055SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:31:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.552	0.552	2.10	3204	0.02	10000	
B	11	45	2	NoGas	23.068	23.068	2.32	98288	0.02	300	
Na	23	45	1	He	1094.018	1094.018	0.58	1666832	0.07	500000	
Mg	24	45	1	He	29.639	29.639	3.56	27421	0.11	500000	
Al	27	45	1	He	52.937	52.937	1.49	27241	0.19	200000	
K	39	45	1	He	25.619	25.619	12.48	95356	0.03	500000	
Ca	44	45	1	He	176.869	176.869	2.21	8844	2.00	500000	
Ti	47	45	1	He	0.283	0.283	48.92	92	0.31	2500	
V	51	45	1	He	0.264	0.264	75.61	2179	0.01	10000	
Cr	52	45	1	He	2.182	2.182	5.35	20017	0.01	10000	
Mn	55	45	1	He	5.764	5.764	0.80	33906	0.02	10000	
Fe	56	45	1	He	58.993	58.993	0.54	424156	0.01	200000	
Co	59	45	1	He	0.127	0.127	6.75	1431	0.01	10000	
Ni	60	45	1	He	2.949	2.949	4.97	7754	0.04	10000	
Cu	63	45	1	He	1.191	1.191	1.55	9317	0.01	10000	
Zn	66	45	1	He	4.602	4.602	5.74	7208	0.06	10000	
As	75	115	1	He	0.387	0.387	1.68	702	0.06	10000	
Se	78	115	1	He	0.047	0.047	337.37	127	0.04	10000	
Sr	88	45	1	He	0.748	0.748	2.30	5286	0.01	10000	
Mo	95	103	1	He	1.016	1.016	23.40	4206	0.02	2000	
Ag	107	103	1	He	0.010	0.010	22.44	127	0.01	300	
Cd	111	115	1	He	0.139	0.139	22.53	1405	0.01	4000	
Sn	118	115	1	He	1.183	1.183	18.58	7102	0.02	2000	
Sb	123	115	1	He	1.713	1.713	3.40	7981	0.02	300	
Ba	137	115	1	He	0.570	0.570	10.82	1182	0.05	10000	
W	182	159	1	He	1.646	1.646	20.06	17106	0.01	2500	
Tl	205	165	1	He	0.164	0.164	13.72	3902	0.00	5000	
Pb	208	165	1	He	0.166	0.166	7.93	5192	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1718552	1.31	1981019	86.75	30	120	
Sc	45	1	He	773523	2.51	833672	92.79	30	120	
Sc	45	2	NoGas	7197965	0.47	7685379	93.66	30	120	
Rh	103	1	He	1912602	0.28	1912940	99.98	30	120	
In	115	1	He	1086970	0.55	1142978	95.10	30	120	
Tb	159	1	He	2779656	0.45	2736958	101.56	30	120	
Ho	165	1	He	2801688	2.22	2784764	100.61	30	120	
Bi	209	1	He	1975183	0.68	1889571	104.53	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	056_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:35:41-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.290	0.884	292316	1.72	50	96.6	89.5	110.5	
B	11	45	2	NoGas	63.876	0.803	252924	0.94	50	127.8	89.5	110.5	CCV Failed
Na	23	45	1	He	24860.023	2.935	40183393	0.88	25000	99.4	89.5	110.5	
Mg	24	45	1	He	24808.843	2.898	23010945	1.01	25000	99.2	89.5	110.5	
Al	27	45	1	He	243.187	2.014	132228	1.72	250	97.3	89.5	110.5	
K	39	45	1	He	24831.228	3.449	25078638	1.69	25000	99.3	89.5	110.5	
Ca	44	45	1	He	24201.328	1.708	1257135	1.81	25000	96.8	89.5	110.5	
Ti	47	45	1	He	50.131	1.464	14883	1.67	50	100.3	89.5	110.5	
V	51	45	1	He	51.047	3.044	376037	1.26	50	102.1	89.5	110.5	
Cr	52	45	1	He	51.188	2.472	424217	0.63	50	102.4	89.5	110.5	
Mn	55	45	1	He	258.050	3.729	1630913	0.77	250	103.2	89.5	110.5	
Fe	56	45	1	He	12843.695	2.942	97322267	0.30	12500	102.7	89.5	110.5	
Co	59	45	1	He	51.472	1.852	574472	1.28	50	102.9	89.5	110.5	
Ni	60	45	1	He	52.227	1.379	143494	2.28	50	104.5	89.5	110.5	
Cu	63	45	1	He	52.329	1.721	376551	2.18	50	104.7	89.5	110.5	
Zn	66	45	1	He	51.097	2.018	77213	1.05	50	102.2	89.5	110.5	
As	75	115	1	He	49.321	0.819	59200	1.28	50	98.6	89.5	110.5	
Se	78	115	1	He	48.724	1.516	4971	1.66	50	97.4	89.5	110.5	
Sr	88	45	1	He	50.619	1.746	379119	1.39	50	101.2	89.5	110.5	
Mo	95	103	1	He	48.312	2.578	165224	2.10	50	96.6	89.5	110.5	
Ag	107	103	1	He	49.553	2.431	520937	1.61	50	99.1	89.5	110.5	
Cd	111	115	1	He	50.550	1.748	90432	2.15	50	101.1	89.5	110.5	
Sn	118	115	1	He	49.662	0.859	221422	1.30	50	99.3	89.5	110.5	
Sb	123	115	1	He	52.018	0.323	240863	0.65	50	104.0	89.5	110.5	
Ba	137	115	1	He	50.548	0.184	104224	0.65	50	101.1	89.5	110.5	
W	182	159	1	He	48.599	1.839	434541	1.14	50	97.2	89.5	110.5	
Tl	205	165	1	He	45.389	0.815	1033933	1.68	50	90.8	89.5	110.5	
Pb	208	165	1	He	51.079	0.856	1408975	1.45	50	102.2	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1854185	1.15	1981019	93.60	30	120	
Sc	45	1	He	840664	3.06	833672	100.84	30	120	
Sc	45	2	NoGas	7539883	0.85	7685379	98.11	30	120	
Rh	103	1	He	1958336	1.70	1912940	102.37	30	120	
In	115	1	He	1119682	0.47	1142978	97.96	30	120	
Tb	159	1	He	2866825	0.76	2736958	104.74	30	120	
Ho	165	1	He	2875823	0.88	2784764	103.27	30	120	
Bi	209	1	He	1974601	1.01	1889571	104.50	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	057_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:39:31-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.404	8.0	2567	7.8	1	
B	11	45	2	NoGas	14.978	3.3	73858	1.8	20	
Na	23	45	1	He	10.561	10.7	58006	2.2	400	
Mg	24	45	1	He	1.252	38.4	3260	12.2	1000	
Al	27	45	1	He	0.362	50.5	1175	7.1	50	
K	39	45	1	He	0.531	53.5	74166	0.5	1000	
Ca	44	45	1	He	6.136	12.6	701	6.0	1000	
Ti	47	45	1	He	0.030	135.4	24	47.9	20	
V	51	45	1	He	0.042	186.7	683	81.0	2	
Cr	52	45	1	He	0.039	11.1	3936	1.4	2	
Mn	55	45	1	He	0.049	6.6	672	2.5	2	
Fe	56	45	1	He	14.485	33.0	116757	28.7	50	
Co	59	45	1	He	0.023	13.8	376	8.2	1	
Ni	60	45	1	He	-0.037	-53.4	234	20.7	2	
Cu	63	45	1	He	0.661	4.0	5982	2.3	2	
Zn	66	45	1	He	0.213	32.5	1219	7.3	20	
As	75	115	1	He	0.029	44.8	302	5.4	2	
Se	78	115	1	He	0.046	376.0	134	13.4	2	
Sr	88	45	1	He	0.009	35.7	201	12.4	10	
Mo	95	103	1	He	0.871	22.1	3900	17.7	2	
Ag	107	103	1	He	0.008	43.7	112	36.3	0.2	
Cd	111	115	1	He	0.010	125.0	1250	2.0	0.2	
Sn	118	115	1	He	0.444	2.0	4149	1.1	10	
Sb	123	115	1	He	0.612	8.1	3208	7.4	1	
Ba	137	115	1	He	0.011	21.6	68	7.5	5	
W	182	159	1	He	1.084	22.0	12724	16.5	10	
Tl	205	165	1	He	0.049	18.5	1376	15.1	0.5	
Pb	208	165	1	He	0.037	0.9	1769	1.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1856042	1.28	1981019	93.69	30	120	
Sc	45	1	He	795290	0.85	833672	95.40	30	120	
Sc	45	2	NoGas	7606027	1.24	7685379	98.97	30	120	
Rh	103	1	He	2003082	2.28	1912940	104.71	30	120	
In	115	1	He	1147020	0.15	1142978	100.35	30	120	
Tb	159	1	He	2882045	0.32	2736958	105.30	30	120	
Ho	165	1	He	2855717	0.88	2784764	102.55	30	120	
Bi	209	1	He	1975171	1.57	1889571	104.53	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-a@5
Data File Name	058SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:43:24-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.372	0.372	9.31	2297	0.02	10000	
B	11	45	2	NoGas	38.226	38.226	1.59	157535	0.02	300	
Na	23	45	1	He	8892.963	8892.963	1.23	13942129	0.06	500000	
Mg	24	45	1	He	6221.919	6221.919	1.99	5587391	0.11	500000	
Al	27	45	1	He	1.043	1.043	18.56	1559	0.07	200000	
K	39	45	1	He	557.066	557.066	2.57	618181	0.09	500000	
Ca	44	45	1	He	3865.730	3865.730	1.06	194676	1.99	500000	
Ti	47	45	1	He	0.013	0.013	14.20	20	0.07	2500	
V	51	45	1	He	0.039	0.039	72.56	678	0.01	10000	
Cr	52	45	1	He	0.264	0.264	5.98	5810	0.00	10000	
Mn	55	45	1	He	0.060	0.060	16.95	756	0.01	10000	
Fe	56	45	1	He	6.706	6.706	1.61	62503	0.01	200000	
Co	59	45	1	He	0.027	0.027	32.71	424	0.01	10000	
Ni	60	45	1	He	0.000	0.000	-3016.90	336	0.00	10000	
Cu	63	45	1	He	0.514	0.514	5.97	5105	0.01	10000	
Zn	66	45	1	He	0.758	0.758	4.24	2033	0.04	10000	
As	75	115	1	He	0.122	0.122	21.69	408	0.03	10000	
Se	78	115	1	He	-0.020	-0.020	-373.89	125	-0.02	10000	
Sr	88	45	1	He	73.411	73.411	1.50	532022	0.01	10000	
Mo	95	103	1	He	0.065	0.065	46.58	1033	0.01	2000	
Ag	107	103	1	He	0.004	0.004	28.89	62	0.01	300	
Cd	111	115	1	He	0.041	0.041	66.47	1283	0.00	4000	
Sn	118	115	1	He	0.322	0.322	13.86	3534	0.01	2000	
Sb	123	115	1	He	0.418	0.418	5.20	2248	0.02	300	
Ba	137	115	1	He	3.769	3.769	6.17	7861	0.05	10000	
W	182	159	1	He	0.289	0.289	7.91	5494	0.01	2500	
Tl	205	165	1	He	0.030	0.030	16.35	931	0.00	5000	
Pb	208	165	1	He	0.034	0.034	6.91	1662	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1795670	0.58	1981019	90.64	30	120	
Sc	45	1	He	813473	2.71	833672	97.58	30	120	
Sc	45	2	NoGas	7486634	0.84	7685379	97.41	30	120	
Rh	103	1	He	1895032	2.03	1912940	99.06	30	120	
In	115	1	He	1126983	0.25	1142978	98.60	30	120	
Tb	159	1	He	2815604	1.11	2736958	102.87	30	120	
Ho	165	1	He	2847203	0.65	2784764	102.24	30	120	
Bi	209	1	He	1987121	0.52	1889571	105.16	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49236-d-3-a@25
Data File Name	059SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:47:16-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.360	0.360	6.92	2267	0.02	10000	
B	11	45	2	NoGas	17.629	17.629	0.87	83256	0.02	300	
Na	23	45	1	He	1868.479	1868.479	2.63	2947926	0.06	500000	
Mg	24	45	1	He	1292.097	1292.097	1.75	1156241	0.11	500000	
Al	27	45	1	He	4.983	4.983	11.95	3595	0.14	200000	
K	39	45	1	He	109.374	109.374	0.81	181007	0.06	500000	
Ca	44	45	1	He	789.996	789.996	1.03	39903	1.98	500000	
Ti	47	45	1	He	-0.014	-0.014	-99.05	12	-0.11	2500	
V	51	45	1	He	-0.032	-0.032	-74.28	168	-0.02	10000	
Cr	52	45	1	He	0.043	0.043	49.08	4033	0.00	10000	
Mn	55	45	1	He	0.007	0.007	135.68	427	0.00	10000	
Fe	56	45	1	He	1.325	1.325	0.86	22902	0.01	200000	
Co	59	45	1	He	0.012	0.012	20.76	261	0.00	10000	
Ni	60	45	1	He	-0.041	-0.041	-11.45	227	-0.02	10000	
Cu	63	45	1	He	0.460	0.460	1.35	4698	0.01	10000	
Zn	66	45	1	He	0.246	0.246	28.71	1289	0.02	10000	
As	75	115	1	He	0.029	0.029	16.13	301	0.01	10000	
Se	78	115	1	He	-0.074	-0.074	-170.18	120	-0.06	10000	
Sr	88	45	1	He	15.101	15.101	1.08	109001	0.01	10000	
Mo	95	103	1	He	-0.108	-0.108	-9.39	479	-0.02	2000	
Ag	107	103	1	He	0.001	0.001	75.21	34	0.00	300	
Cd	111	115	1	He	0.025	0.025	23.34	1269	0.00	4000	
Sn	118	115	1	He	0.107	0.107	85.97	2608	0.00	2000	
Sb	123	115	1	He	0.222	0.222	5.95	1352	0.02	300	
Ba	137	115	1	He	0.769	0.769	2.22	1657	0.05	10000	
W	182	159	1	He	0.106	0.106	26.38	3923	0.00	2500	
Tl	205	165	1	He	0.020	0.020	13.32	713	0.00	5000	
Pb	208	165	1	He	0.026	0.026	7.60	1452	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1832847	1.67	1981019	92.52	30	120	
Sc	45	1	He	809177	0.42	833672	97.06	30	120	
Sc	45	2	NoGas	7565614	0.61	7685379	98.44	30	120	
Rh	103	1	He	1957848	0.44	1912940	102.35	30	120	
In	115	1	He	1139369	0.22	1142978	99.68	30	120	
Tb	159	1	He	2832249	0.40	2736958	103.48	30	120	
Ho	165	1	He	2850194	0.16	2784764	102.35	30	120	
Bi	209	1	He	1999839	1.13	1889571	105.84	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49236-d-3-a@5
Data File Name	060SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:51:08-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	989.897	989.897	0.91	5635400	0.02	10000	
B	11	45	2	NoGas	146.270	146.270	0.28	536278	0.03	300	
Na	23	45	1	He	18274.123	18274.123	4.19	28399918	0.06	500000	
Mg	24	45	1	He	15920.374	15920.374	3.57	14195319	0.11	500000	
Al	27	45	1	He	9451.298	9451.298	3.95	4900048	0.19	200000	
K	39	45	1	He	10412.779	10412.779	3.81	10152188	0.10	500000	
Ca	44	45	1	He	12746.515	12746.515	3.19	636574	2.00	500000	
Ti	47	45	1	He	97.308	97.308	3.34	27750	0.35	2500	
V	51	45	1	He	1005.214	1005.214	4.50	7108563	0.01	10000	
Cr	52	45	1	He	1020.765	1020.765	3.87	8060597	0.01	10000	
Mn	55	45	1	He	1009.775	1009.775	4.53	6132815	0.02	10000	
Fe	56	45	1	He	10237.689	10237.689	5.13	74535930	0.01	200000	
Co	59	45	1	He	1058.866	1058.866	4.54	11351402	0.01	10000	
Ni	60	45	1	He	1111.463	1111.463	3.96	2927200	0.04	10000	
Cu	63	45	1	He	1095.105	1095.105	2.76	7544097	0.01	10000	
Zn	66	45	1	He	1126.238	1126.238	4.01	1615800	0.07	10000	
As	75	115	1	He	1004.973	1004.973	0.39	1113603	0.09	10000	
Se	78	115	1	He	1014.660	1014.660	0.29	93655	1.08	10000	
Sr	88	45	1	He	1158.410	1158.410	4.14	8333699	0.01	10000	
Mo	95	103	1	He	100.311	100.311	2.50	327083	0.03	2000	
Ag	107	103	1	He	100.019	100.019	1.24	1005246	0.01	300	
Cd	111	115	1	He	1196.497	1196.497	1.26	1959095	0.06	4000	
Sn	118	115	1	He	1170.448	1170.448	0.42	4794018	0.02	2000	
Sb	123	115	1	He	106.545	106.545	0.56	457068	0.02	300	
Ba	137	115	1	He	1198.460	1198.460	0.80	2289983	0.05	10000	
W	182	159	1	He	98.172	98.172	0.38	852071	0.01	2500	
Tl	205	165	1	He	265.368	265.368	0.92	5927281	0.00	5000	
Pb	208	165	1	He	1175.345	1175.345	0.27	31781399	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1744529	0.43	1981019	88.06	30	120	
Sc	45	1	He	808593	4.98	833672	96.99	30	120	
Sc	45	2	NoGas	7275943	0.53	7685379	94.67	30	120	
Rh	103	1	He	1872091	1.26	1912940	97.86	30	120	
In	115	1	He	1038019	0.40	1142978	90.82	30	120	
Tb	159	1	He	2792369	0.71	2736958	102.02	30	120	
Ho	165	1	He	2820528	0.90	2784764	101.28	30	120	
Bi	209	1	He	1920516	2.45	1889571	101.64	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-b du@5
Data File Name	061SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:54:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.586	0.586	6.29	3545	0.02	10000	
B	11	45	2	NoGas	36.481	36.481	1.44	151055	0.02	300	
Na	23	45	1	He	8712.296	8712.296	1.31	13327122	0.07	500000	
Mg	24	45	1	He	6086.576	6086.576	1.88	5333179	0.11	500000	
Al	27	45	1	He	3.164	3.164	5.18	2599	0.12	200000	
K	39	45	1	He	547.672	547.672	1.31	594290	0.09	500000	
Ca	44	45	1	He	3802.493	3802.493	0.66	186836	2.04	500000	
Ti	47	45	1	He	0.098	0.098	67.39	43	0.23	2500	
V	51	45	1	He	0.216	0.216	32.82	1889	0.01	10000	
Cr	52	45	1	He	0.341	0.341	1.83	6270	0.01	10000	
Mn	55	45	1	He	0.283	0.283	7.60	2063	0.01	10000	
Fe	56	45	1	He	14.122	14.122	25.88	113953	0.01	200000	
Co	59	45	1	He	0.118	0.118	13.53	1370	0.01	10000	
Ni	60	45	1	He	0.051	0.051	89.14	460	0.01	10000	
Cu	63	45	1	He	0.670	0.670	10.10	6029	0.01	10000	
Zn	66	45	1	He	2.719	2.719	0.98	4748	0.06	10000	
As	75	115	1	He	0.310	0.310	14.39	628	0.05	10000	
Se	78	115	1	He	0.332	0.332	7.36	158	0.21	10000	
Sr	88	45	1	He	71.649	71.649	1.39	506634	0.01	10000	
Mo	95	103	1	He	1.440	1.440	30.92	5597	0.03	2000	
Ag	107	103	1	He	0.011	0.011	39.04	137	0.01	300	
Cd	111	115	1	He	0.226	0.226	20.03	1594	0.01	4000	
Sn	118	115	1	He	5.164	5.164	16.33	24771	0.02	2000	
Sb	123	115	1	He	0.877	0.877	18.30	4334	0.02	300	
Ba	137	115	1	He	3.766	3.766	4.84	7771	0.05	10000	
W	182	159	1	He	1.745	1.745	23.39	18237	0.01	2500	
Tl	205	165	1	He	0.112	0.112	10.60	2761	0.00	5000	
Pb	208	165	1	He	0.161	0.161	14.27	5075	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1795584	1.64	1981019	90.64	30	120	
Sc	45	1	He	793559	0.94	833672	95.19	30	120	
Sc	45	2	NoGas	7480644	0.63	7685379	97.34	30	120	
Rh	103	1	He	1909527	0.72	1912940	99.82	30	120	
In	115	1	He	1114998	0.80	1142978	97.55	30	120	
Tb	159	1	He	2823693	0.89	2736958	103.17	30	120	
Ho	165	1	He	2820261	1.46	2784764	101.27	30	120	
Bi	209	1	He	1961100	0.23	1889571	103.79	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-c ms@5
Data File Name	062SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T13:58:32-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	20.879	20.879	4.03	120914	0.02	10000	
B	11	45	2	NoGas	56.610	56.610	0.78	222443	0.03	300	
Na	23	45	1	He	10608.036	10608.036	1.67	16446396	0.06	500000	
Mg	24	45	1	He	7978.378	7978.378	1.42	7089115	0.11	500000	
Al	27	45	1	He	1950.967	1950.967	1.62	1008706	0.19	200000	
K	39	45	1	He	2637.209	2637.209	1.93	2617603	0.10	500000	
Ca	44	45	1	He	5637.869	5637.869	0.79	280749	2.01	500000	
Ti	47	45	1	He	20.286	20.286	4.01	5779	0.35	2500	
V	51	45	1	He	20.500	20.500	1.58	144874	0.01	10000	
Cr	52	45	1	He	21.185	21.185	1.22	170299	0.01	10000	
Mn	55	45	1	He	20.185	20.185	1.41	122560	0.02	10000	
Fe	56	45	1	He	2104.297	2104.297	0.78	15285688	0.01	200000	
Co	59	45	1	He	21.264	21.264	1.10	227340	0.01	10000	
Ni	60	45	1	He	21.800	21.800	0.29	57549	0.04	10000	
Cu	63	45	1	He	22.160	22.160	1.24	153559	0.01	10000	
Zn	66	45	1	He	22.600	22.600	1.65	33223	0.07	10000	
As	75	115	1	He	20.230	20.230	0.09	24069	0.08	10000	
Se	78	115	1	He	19.937	19.937	0.80	2077	0.96	10000	
Sr	88	45	1	He	89.815	89.815	1.02	644060	0.01	10000	
Mo	95	103	1	He	20.439	20.439	1.63	68654	0.03	2000	
Ag	107	103	1	He	20.726	20.726	0.86	212546	0.01	300	
Cd	111	115	1	He	21.023	21.023	1.55	37739	0.06	4000	
Sn	118	115	1	He	20.924	20.924	1.21	93087	0.02	2000	
Sb	123	115	1	He	21.002	21.002	0.22	95968	0.02	300	
Ba	137	115	1	He	23.605	23.605	0.87	47965	0.05	10000	
W	182	159	1	He	19.308	19.308	2.45	171325	0.01	2500	
Tl	205	165	1	He	18.709	18.709	1.16	416183	0.00	5000	
Pb	208	165	1	He	21.282	21.282	0.77	573528	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1773812	1.64	1981019	89.54	30	120	
Sc	45	1	He	804835	1.74	833672	96.54	30	120	
Sc	45	2	NoGas	7413616	0.68	7685379	96.46	30	120	
Rh	103	1	He	1909786	0.56	1912940	99.84	30	120	
In	115	1	He	1102936	0.39	1142978	96.50	30	120	
Tb	159	1	He	2815096	0.73	2736958	102.85	30	120	
Ho	165	1	He	2807681	1.07	2784764	100.82	30	120	
Bi	209	1	He	1949468	0.66	1889571	103.17	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	063_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:02:22-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.449	2.019	291295	2.08	50	96.9	89.5	110.5	
B	11	45	2	NoGas	60.528	1.913	242243	0.71	50	121.1	89.5	110.5	CCV Failed
Na	23	45	1	He	24533.358	4.318	39639522	0.90	25000	98.1	89.5	110.5	
Mg	24	45	1	He	24711.827	2.978	22918278	0.57	25000	98.8	89.5	110.5	
Al	27	45	1	He	243.086	3.268	132120	0.21	250	97.2	89.5	110.5	
K	39	45	1	He	24656.962	2.665	24903452	0.90	25000	98.6	89.5	110.5	
Ca	44	45	1	He	24146.371	2.451	1253987	1.34	25000	96.6	89.5	110.5	
Ti	47	45	1	He	50.162	2.648	14888	1.62	50	100.3	89.5	110.5	
V	51	45	1	He	49.593	3.221	365282	0.42	50	99.2	89.5	110.5	
Cr	52	45	1	He	50.222	2.974	416209	0.50	50	100.4	89.5	110.5	
Mn	55	45	1	He	255.045	4.077	1611658	0.78	250	102.0	89.5	110.5	
Fe	56	45	1	He	12687.465	2.959	96131198	0.48	12500	101.5	89.5	110.5	
Co	59	45	1	He	50.594	2.387	564580	1.06	50	101.2	89.5	110.5	
Ni	60	45	1	He	51.166	3.043	140518	0.63	50	102.3	89.5	110.5	
Cu	63	45	1	He	51.432	2.617	369996	0.83	50	102.9	89.5	110.5	
Zn	66	45	1	He	51.105	3.520	77195	0.53	50	102.2	89.5	110.5	
As	75	115	1	He	49.541	1.010	58791	1.02	50	99.1	89.5	110.5	
Se	78	115	1	He	49.756	2.155	5016	1.99	50	99.5	89.5	110.5	
Sr	88	45	1	He	50.423	2.105	377602	1.36	50	100.8	89.5	110.5	
Mo	95	103	1	He	49.656	0.902	165286	1.67	50	99.3	89.5	110.5	
Ag	107	103	1	He	50.066	2.197	512265	0.83	50	100.1	89.5	110.5	
Cd	111	115	1	He	50.935	1.181	90083	1.26	50	101.9	89.5	110.5	
Sn	118	115	1	He	49.839	0.992	219695	1.01	50	99.7	89.5	110.5	
Sb	123	115	1	He	52.040	0.753	238250	0.64	50	104.1	89.5	110.5	
Ba	137	115	1	He	50.339	1.120	102624	1.26	50	100.7	89.5	110.5	
W	182	159	1	He	49.165	0.640	434699	0.93	50	98.3	89.5	110.5	
Tl	205	165	1	He	44.995	2.481	1014191	1.42	50	90.0	89.5	110.5	
Pb	208	165	1	He	50.649	2.407	1382511	1.41	50	101.3	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1841703	0.35	1981019	92.97	30	120	
Sc	45	1	He	840672	3.46	833672	100.84	30	120	
Sc	45	2	NoGas	7592019	1.72	7685379	98.79	30	120	
Rh	103	1	He	1905994	1.38	1912940	99.64	30	120	
In	115	1	He	1107066	0.20	1142978	96.86	30	120	
Tb	159	1	He	2834797	0.43	2736958	103.57	30	120	
Ho	165	1	He	2846306	1.30	2784764	102.21	30	120	
Bi	209	1	He	1911398	2.38	1889571	101.16	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	064_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:06:09-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.361	7.7	2348	6.6	1	
B	11	45	2	NoGas	11.811	2.1	62598	0.5	20	
Na	23	45	1	He	9.373	17.8	56201	2.7	400	
Mg	24	45	1	He	1.216	23.3	3230	6.5	1000	
Al	27	45	1	He	0.302	39.5	1145	3.5	50	
K	39	45	1	He	1.921	150.9	75505	1.9	1000	
Ca	44	45	1	He	6.458	53.7	717	23.7	1000	
Ti	47	45	1	He	0.015	168.5	20	33.4	20	
V	51	45	1	He	0.058	33.9	796	18.8	2	
Cr	52	45	1	He	-0.008	-167.3	3569	3.3	2	
Mn	55	45	1	He	0.039	28.9	612	9.3	2	
Fe	56	45	1	He	15.320	33.5	122506	28.0	50	
Co	59	45	1	He	0.026	16.3	402	9.1	1	
Ni	60	45	1	He	-0.031	-37.7	249	12.2	2	
Cu	63	45	1	He	0.420	2.2	4348	1.4	2	
Zn	66	45	1	He	0.299	27.1	1341	7.0	20	
As	75	115	1	He	0.013	152.4	281	9.0	2	
Se	78	115	1	He	0.111	137.9	139	11.4	2	
Sr	88	45	1	He	0.008	25.9	196	7.1	10	
Mo	95	103	1	He	0.875	32.0	3916	24.0	2	
Ag	107	103	1	He	0.008	36.1	107	27.8	0.2	
Cd	111	115	1	He	0.080	22.5	1368	2.4	0.2	
Sn	118	115	1	He	0.688	10.0	5223	5.6	10	
Sb	123	115	1	He	0.572	16.4	3001	14.6	1	
Ba	137	115	1	He	0.008	99.2	61	26.9	5	
W	182	159	1	He	1.242	15.9	13944	12.9	10	
Tl	205	165	1	He	0.057	22.1	1531	18.0	0.5	
Pb	208	165	1	He	0.038	5.9	1770	3.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1891613	1.28	1981019	95.49	30	120	
Sc	45	1	He	795762	1.83	833672	95.45	30	120	
Sc	45	2	NoGas	7664420	1.26	7685379	99.73	30	120	
Rh	103	1	He	2007657	0.80	1912940	104.95	30	120	
In	115	1	He	1140132	0.30	1142978	99.75	30	120	
Tb	159	1	He	2840831	0.52	2736958	103.80	30	120	
Ho	165	1	He	2841637	0.49	2784764	102.04	30	120	
Bi	209	1	He	1977726	0.21	1889571	104.67	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1912660
Data File Name	065CRIA.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:10:02-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1.018	1.018	5.785	6416	6.13	1	101.8	69.5	130.5	
B	11	2	NoGas	26.790	26.790	2.009	120080	1.25	20	133.9	69.5	130.5	6020A CR1 Failed
Na	23	1	He	1101.484	1101.484	0.785	1779888	0.82	1000	110.1	69.5	130.5	
Mg	24	1	He	1078.156	1078.156	1.280	978650	1.29	1000	107.8	69.5	130.5	
Al	27	1	He	51.910	51.910	0.938	28361	1.53	50	103.8	69.5	130.5	
K	39	1	He	1062.847	1062.847	1.104	1120961	0.22	1000	106.3	69.5	130.5	
Ca	44	1	He	1031.332	1031.332	1.440	52691	0.41	1000	103.1	69.5	130.5	
Ti	47	1	He	10.310	10.310	7.183	3001	7.37	10	103.1	69.5	130.5	
V	51	1	He	5.270	5.270	0.842	38268	0.67	5	105.4	69.5	130.5	
Cr	52	1	He	2.145	2.145	0.633	20944	1.53	2	107.2	69.5	130.5	
Mn	55	1	He	5.245	5.245	0.884	32759	1.30	5	104.9	69.5	130.5	
Fe	56	1	He	106.468	106.468	0.908	801141	1.11	100	106.5	69.5	130.5	
Co	59	1	He	1.126	1.126	1.383	12409	1.90	1	112.6	69.5	130.5	
Ni	60	1	He	2.267	2.267	4.346	6407	4.53	2	113.4	69.5	130.5	
Cu	63	1	He	2.612	2.612	0.739	19822	1.60	2	130.6	69.5	130.5	6020A CR1 Failed
Zn	66	1	He	22.534	22.534	0.915	33777	1.51	20	112.7	69.5	130.5	
As	75	1	He	4.921	4.921	1.815	6344	1.53	5	98.4	69.5	130.5	
Se	78	1	He	4.989	4.989	6.166	642	4.69	5	99.8	69.5	130.5	
Sr	88	1	He	10.594	10.594	0.438	77576	1.03	10	105.9	69.5	130.5	
Mo	95	1	He	10.036	10.036	0.417	35018	1.15	10	100.4	69.5	130.5	
Ag	107	1	He	1.049	1.049	3.860	11060	4.25	1	104.9	69.5	130.5	
Cd	111	1	He	1.100	1.100	3.919	3248	1.60	1	110.0	69.5	130.5	
Sn	118	1	He	9.920	9.920	1.237	47430	1.55	10	99.2	69.5	130.5	
Sb	123	1	He	2.249	2.249	0.320	11056	1.06	2	112.4	69.5	130.5	
Ba	137	1	He	5.012	5.012	1.416	10719	2.15	5	100.2	69.5	130.5	
W	182	1	He	9.840	9.840	0.729	89331	1.40	10	98.4	69.5	130.5	
Tl	205	1	He	1.897	1.897	0.309	43142	0.36	2	94.9	69.5	130.5	
Pb	208	1	He	1.110	1.110	0.475	31128	0.75	1	111.0	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1894094	0.77	1981019	95.61	30	120	
Sc	45	1	He	820476	1.03	833672	98.42	30	120	
Sc	45	2	NoGas	7763070	0.67	7685379	101.01	30	120	
Rh	103	1	He	1959389	1.30	1912940	102.43	30	120	
In	115	1	He	1156938	0.83	1142978	101.22	30	120	
Tb	159	1	He	2832424	0.73	2736958	103.49	30	120	
Ho	165	1	He	2854879	0.33	2784764	102.52	30	120	
Bi	209	1	He	1973905	1.03	1889571	104.46	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176390/1-a
Data File Name	066_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:13:54-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.309	6.5	1871	5.7	1	
B	11	45	2	NoGas	14.994	1.4	69813	0.6	20	
Na	23	45	1	He	69.682	3.2	148143	2.1	400	
Mg	24	45	1	He	61.348	2.0	55937	2.4	1000	
Al	27	45	1	He	2.086	8.9	2053	6.5	50	
K	39	45	1	He	14.415	13.6	87271	2.4	1000	
Ca	44	45	1	He	179.546	4.5	9203	1.0	1000	
Ti	47	45	1	He	0.138	16.2	54	9.4	20	
V	51	45	1	He	0.274	21.6	2284	14.8	2	
Cr	52	45	1	He	1.064	6.1	11880	1.6	2	
Mn	55	45	1	He	0.305	11.1	2198	5.9	2	
Fe	56	45	1	He	16.754	1.1	132981	2.6	50	
Co	59	45	1	He	0.042	9.2	576	3.9	1	
Ni	60	45	1	He	0.207	15.3	863	6.2	2	
Cu	63	45	1	He	1.006	3.4	8315	5.3	2	
Zn	66	45	1	He	3.248	4.5	5495	0.9	20	
As	75	115	1	He	0.202	4.9	487	2.4	2	
Se	78	115	1	He	0.156	6.7	137	1.1	2	
Sr	88	45	1	He	0.457	4.6	3366	3.6	10	
Mo	95	103	1	He	0.104	23.9	1159	8.2	2	
Ag	107	103	1	He	0.005	39.3	69	27.5	0.2	
Cd	111	115	1	He	0.065	31.4	1278	2.5	0.2	
Sn	118	115	1	He	1.983	7.8	10522	6.1	10	
Sb	123	115	1	He	0.772	6.5	3754	6.2	1	
Ba	137	115	1	He	1.004	2.3	2049	2.0	5	
W	182	159	1	He	0.416	6.2	6494	3.6	10	
Tl	205	165	1	He	0.046	4.2	1271	3.9	0.5	
Pb	208	165	1	He	0.160	0.9	4984	1.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1746836	2.35	1981019	88.18	30	120	
Sc	45	1	He	794406	3.50	833672	95.29	30	120	
Sc	45	2	NoGas	7182956	0.62	7685379	93.46	30	120	
Rh	103	1	He	1886693	1.38	1912940	98.63	30	120	
In	115	1	He	1086089	0.42	1142978	95.02	30	120	
Tb	159	1	He	2767086	0.49	2736958	101.10	30	120	
Ho	165	1	He	2779788	0.66	2784764	99.82	30	120	
Bi	209	1	He	1975273	0.87	1889571	104.54	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176390/2-a
Data File Name	067_LCS.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:17:47-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	906.489	906.489	0.528	4946868	0.71	1000	90.6	79.5	120.5	
B	11	2	NoGas	112.737	112.737	0.744	397814	1.13	100	112.7	79.5	120.5	
Na	23	1	He	9745.897	9745.897	2.119	14196540	1.04	10000	97.5	79.5	120.5	
Mg	24	1	He	9812.286	9812.286	2.502	8188319	0.57	10000	98.1	79.5	120.5	
Al	27	1	He	8980.195	8980.195	1.056	4358604	1.40	10000	89.8	79.5	120.5	
K	39	1	He	9502.091	9502.091	1.815	8677578	0.91	10000	95.0	79.5	120.5	
Ca	44	1	He	8950.506	8950.506	1.706	418421	0.92	10000	89.5	79.5	120.5	
Ti	47	1	He	94.605	94.605	1.747	25250	1.59	100	94.6	79.5	120.5	
V	51	1	He	962.978	962.978	3.656	6373542	1.32	1000	96.3	79.5	120.5	
Cr	52	1	He	980.261	980.261	2.465	7244821	0.13	1000	98.0	79.5	120.5	
Mn	55	1	He	959.334	959.334	2.071	5454718	0.85	1000	95.9	79.5	120.5	
Fe	56	1	He	9993.935	9993.935	2.918	68132831	2.16	10000	99.9	79.5	120.5	
Co	59	1	He	1021.386	1021.386	2.058	10252182	1.94	1000	102.1	79.5	120.5	
Ni	60	1	He	1061.977	1061.977	2.866	2617644	1.07	1000	106.2	79.5	120.5	
Cu	63	1	He	1057.759	1057.759	2.297	6818196	1.62	1000	105.8	79.5	120.5	
Zn	66	1	He	983.613	983.613	1.805	1321069	0.91	1000	98.4	79.5	120.5	
As	75	1	He	933.017	933.017	1.301	995002	0.65	1000	93.3	79.5	120.5	
Se	78	1	He	949.731	949.731	1.848	84371	1.28	1000	95.0	79.5	120.5	
Sr	88	1	He	1030.932	1030.932	2.054	6942306	0.36	1000	103.1	79.5	120.5	
Mo	95	1	He	95.390	95.390	0.979	305055	1.45	100	95.4	79.5	120.5	
Ag	107	1	He	92.743	92.743	1.771	913908	0.42	100	92.7	79.5	120.5	
Cd	111	1	He	1130.133	1130.133	0.872	1780979	1.25	1000	113.0	79.5	120.5	
Sn	118	1	He	1097.109	1097.109	1.188	4324862	0.64	1000	109.7	79.5	120.5	
Sb	123	1	He	101.040	101.040	1.248	417172	0.64	100	101.0	79.5	120.5	
Ba	137	1	He	1104.024	1104.024	0.786	2030340	1.31	1000	110.4	79.5	120.5	
W	182	1	He	93.184	93.184	0.977	787296	0.80	100	93.2	79.5	120.5	
Tl	205	1	He	243.224	243.224	0.330	5263795	0.71	250	97.3	79.5	120.5	
Pb	208	1	He	1100.420	1100.420	0.863	28829848	0.71	1000	110.0	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1672312	1.12	1981019	84.42	30	120	
Sc	45	1	He	756102	2.39	833672	90.70	30	120	
Sc	45	2	NoGas	6935214	0.60	7685379	90.24	30	120	
Rh	103	1	He	1835736	1.92	1912940	95.96	30	120	
In	115	1	He	999045	0.65	1142978	87.41	30	120	
Tb	159	1	He	2718067	1.76	2736958	99.31	30	120	
Ho	165	1	He	2732899	0.86	2784764	98.14	30	120	
Bi	209	1	He	1857551	1.42	1889571	98.31	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-1-a
Data File Name	068SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:21:22-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.508	0.508	7.33	2860	0.02	10000	
B	11	45	2	NoGas	942.534	942.534	1.57	3219119	0.03	300	>LDR
Na	23	45	1	He	37981.372	37981.372	2.36	54686103	0.07	500000	
Mg	24	45	1	He	13895.462	13895.462	2.44	11486317	0.12	500000	
Al	27	45	1	He	11.612	11.612	1.33	6515	0.18	200000	
K	39	45	1	He	4057.746	4057.746	2.06	3710256	0.11	500000	
Ca	44	45	1	He	72568.225	72568.225	1.86	3357649	2.16	500000	
Ti	47	45	1	He	0.296	0.296	11.63	93	0.32	2500	
V	51	45	1	He	0.565	0.565	6.64	4075	0.01	10000	
Cr	52	45	1	He	1.268	1.268	3.48	12699	0.01	10000	
Mn	55	45	1	He	3816.304	3816.304	2.89	21490193	0.02	10000	
Fe	56	45	1	He	422.055	422.055	1.41	2862253	0.01	200000	
Co	59	45	1	He	1.619	1.619	3.08	16215	0.01	10000	
Ni	60	45	1	He	2.895	2.895	3.71	7376	0.04	10000	
Cu	63	45	1	He	1.668	1.668	1.75	12070	0.01	10000	
Zn	66	45	1	He	5.268	5.268	4.21	7868	0.07	10000	
As	75	115	1	He	1.069	1.069	1.16	1415	0.08	10000	
Se	78	115	1	He	0.697	0.697	5.74	179	0.39	10000	
Sr	88	45	1	He	335.701	335.701	2.67	2239154	0.01	10000	
Mo	95	103	1	He	3.073	3.073	6.06	10298	0.03	2000	
Ag	107	103	1	He	0.292	0.292	6.41	2816	0.01	300	
Cd	111	115	1	He	0.355	0.355	4.30	1683	0.02	4000	
Sn	118	115	1	He	3.363	3.363	20.35	15567	0.02	2000	
Sb	123	115	1	He	0.923	0.923	5.57	4201	0.02	300	
Ba	137	115	1	He	125.771	125.771	1.23	238484	0.05	10000	
W	182	159	1	He	1.417	1.417	22.94	14685	0.01	2500	
Tl	205	165	1	He	0.215	0.215	26.53	4922	0.00	5000	
Pb	208	165	1	He	0.200	0.200	11.33	5983	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1662175	1.03	1981019	83.91	30	120	
Sc	45	1	He	748985	2.52	833672	89.84	30	120	
Sc	45	2	NoGas	6970800	1.21	7685379	90.70	30	120	
Rh	103	1	He	1784188	1.17	1912940	93.27	30	120	
In	115	1	He	1030058	1.20	1142978	90.12	30	120	
Tb	159	1	He	2696983	0.98	2736958	98.54	30	120	
Ho	165	1	He	2742845	0.87	2784764	98.49	30	120	
Bi	209	1	He	1836737	0.35	1889571	97.20	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49293-a-1-a@5
Data File Name	069SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:25:10-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.540	0.540	3.43	3263	0.02	10000	
B	11	45	2	NoGas	209.673	209.673	1.00	766425	0.03	300	
Na	23	45	1	He	8358.522	8358.522	0.97	12706861	0.07	500000	
Mg	24	45	1	He	3130.958	3130.958	1.21	2727175	0.11	500000	
Al	27	45	1	He	67.679	67.679	2.28	35233	0.19	200000	
K	39	45	1	He	1099.045	1099.045	1.39	1111393	0.10	500000	
Ca	44	45	1	He	15274.619	15274.619	0.94	744529	2.05	500000	
Ti	47	45	1	He	1.038	1.038	10.65	304	0.34	2500	
V	51	45	1	He	0.484	0.484	10.44	3725	0.01	10000	
Cr	52	45	1	He	0.929	0.929	5.89	10757	0.01	10000	
Mn	55	45	1	He	1144.988	1144.988	1.11	6791143	0.02	10000	
Fe	56	45	1	He	178.053	178.053	1.01	1278813	0.01	200000	
Co	59	45	1	He	0.602	0.602	6.33	6437	0.01	10000	
Ni	60	45	1	He	1.389	1.389	2.48	3897	0.04	10000	
Cu	63	45	1	He	1.409	1.409	3.15	10962	0.01	10000	
Zn	66	45	1	He	4.799	4.799	3.48	7627	0.06	10000	
As	75	115	1	He	0.383	0.383	2.57	714	0.05	10000	
Se	78	115	1	He	0.267	0.267	12.86	151	0.18	10000	
Sr	88	45	1	He	65.510	65.510	0.96	460286	0.01	10000	
Mo	95	103	1	He	0.477	0.477	5.93	2419	0.02	2000	
Ag	107	103	1	He	0.093	0.093	8.23	981	0.01	300	
Cd	111	115	1	He	0.198	0.198	20.67	1542	0.01	4000	
Sn	118	115	1	He	0.945	0.945	5.92	6224	0.02	2000	
Sb	123	115	1	He	0.309	0.309	7.23	1719	0.02	300	
Ba	137	115	1	He	26.244	26.244	1.28	53771	0.05	10000	
W	182	159	1	He	0.272	0.272	7.33	5412	0.01	2500	
Tl	205	165	1	He	0.058	0.058	3.24	1576	0.00	5000	
Pb	208	165	1	He	0.545	0.545	2.84	15837	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1786072	1.14	1981019	90.16	30	120	
Sc	45	1	He	788467	1.26	833672	94.58	30	120	
Sc	45	2	NoGas	7327100	1.08	7685379	95.34	30	120	
Rh	103	1	He	1916892	1.41	1912940	100.21	30	120	
In	115	1	He	1112252	0.73	1142978	97.31	30	120	
Tb	159	1	He	2847823	0.47	2736958	104.05	30	120	
Ho	165	1	He	2887184	0.88	2784764	103.68	30	120	
Bi	209	1	He	1951340	1.77	1889571	103.27	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49293-a-1-a
Data File Name	070SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:29:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1006.721	1006.721	0.92	5357020	0.02	10000	
B	11	45	2	NoGas	1024.071	1024.071	0.47	3472597	0.03	300	>LDR
Na	23	45	1	He	47947.044	47947.044	2.62	68536488	0.07	500000	
Mg	24	45	1	He	23688.451	23688.451	3.24	19437243	0.12	500000	
Al	27	45	1	He	9650.389	9650.389	3.22	4605108	0.21	200000	
K	39	45	1	He	14158.894	14158.894	2.20	12683725	0.11	500000	
Ca	44	45	1	He	81189.479	81189.479	3.11	3729106	2.18	500000	
Ti	47	45	1	He	100.835	100.835	1.69	26470	0.38	2500	
V	51	45	1	He	1044.455	1044.455	3.18	6799491	0.02	10000	
Cr	52	45	1	He	1054.901	1054.901	3.14	7667116	0.01	10000	
Mn	55	45	1	He	4763.472	4763.472	2.68	26636236	0.02	10000	
Fe	56	45	1	He	11038.446	11038.446	3.79	73988497	0.01	200000	
Co	59	45	1	He	1096.559	1096.559	3.10	10822508	0.01	10000	
Ni	60	45	1	He	1125.647	1125.647	3.01	2728806	0.04	10000	
Cu	63	45	1	He	1113.720	1113.720	3.40	7058691	0.02	10000	
Zn	66	45	1	He	1092.739	1092.739	6.19	1443026	0.08	10000	
As	75	115	1	He	1033.152	1033.152	0.90	1069978	0.10	10000	
Se	78	115	1	He	1031.759	1031.759	1.24	89004	1.16	10000	
Sr	88	45	1	He	1436.355	1436.355	2.42	9513155	0.02	10000	
Mo	95	103	1	He	111.013	111.013	2.73	340558	0.03	2000	
Ag	107	103	1	He	101.127	101.127	1.28	956576	0.01	300	
Cd	111	115	1	He	1210.386	1210.386	1.65	1852215	0.07	4000	
Sn	118	115	1	He	1198.802	1198.802	1.22	4589238	0.03	2000	
Sb	123	115	1	He	112.031	112.031	0.79	449179	0.02	300	
Ba	137	115	1	He	1373.643	1373.643	0.81	2453103	0.06	10000	
W	182	159	1	He	104.502	104.502	0.45	873133	0.01	2500	
Tl	205	165	1	He	256.604	256.604	1.60	5531071	0.00	5000	
Pb	208	165	1	He	1168.247	1168.247	0.68	30485688	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1630655	0.61	1981019	82.31	30	120	
Sc	45	1	He	743843	3.58	833672	89.22	30	120	
Sc	45	2	NoGas	6923491	0.76	7685379	90.09	30	120	
Rh	103	1	He	1762002	1.69	1912940	92.11	30	120	
In	115	1	He	970210	0.81	1142978	84.88	30	120	
Tb	159	1	He	2688656	0.55	2736958	98.24	30	120	
Ho	165	1	He	2722036	0.52	2784764	97.75	30	120	
Bi	209	1	He	1810154	1.22	1889571	95.80	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-1-b ms
Data File Name	071SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:32:34-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1001.397	1001.397	1.04	5315681	0.02	10000	
B	11	45	2	NoGas	1062.617	1062.617	1.18	3595790	0.03	300	>LDR
Na	23	45	1	He	50680.956	50680.956	3.14	71339105	0.07	500000	
Mg	24	45	1	He	25726.500	25726.500	3.05	20791551	0.12	500000	
Al	27	45	1	He	10804.530	10804.530	3.74	5077571	0.21	200000	
K	39	45	1	He	15553.105	15553.105	2.55	13714211	0.11	500000	
Ca	44	45	1	He	84246.080	84246.080	1.49	3812051	2.21	500000	
Ti	47	45	1	He	115.554	115.554	2.28	29868	0.39	2500	
V	51	45	1	He	1069.618	1069.618	1.40	6860197	0.02	10000	
Cr	52	45	1	He	1083.859	1083.859	1.71	7760310	0.01	10000	
Mn	55	45	1	He	4945.439	4945.439	2.63	27234767	0.02	10000	
Fe	56	45	1	He	12391.646	12391.646	1.66	81835770	0.02	200000	
Co	59	45	1	He	1119.811	1119.811	1.96	10887586	0.01	10000	
Ni	60	45	1	He	1157.852	1157.852	2.86	2764531	0.04	10000	
Cu	63	45	1	He	1151.124	1151.124	1.85	7187576	0.02	10000	
Zn	66	45	1	He	1142.498	1142.498	2.67	1486518	0.08	10000	
As	75	115	1	He	1033.771	1033.771	0.45	1070085	0.10	10000	
Se	78	115	1	He	1022.208	1022.208	0.39	88139	1.16	10000	
Sr	88	45	1	He	1473.300	1473.300	1.65	9612110	0.02	10000	
Mo	95	103	1	He	128.252	128.252	1.07	390477	0.03	2000	
Ag	107	103	1	He	115.942	115.942	1.42	1088550	0.01	300	
Cd	111	115	1	He	1234.886	1234.886	1.49	1888666	0.07	4000	
Sn	118	115	1	He	1355.835	1355.835	0.93	5187743	0.03	2000	
Sb	123	115	1	He	124.947	124.947	1.01	500675	0.02	300	
Ba	137	115	1	He	1391.568	1391.568	0.97	2483971	0.06	10000	
W	182	159	1	He	118.681	118.681	1.18	997033	0.01	2500	
Tl	205	165	1	He	261.233	261.233	1.32	5643141	0.00	5000	
Pb	208	165	1	He	1173.332	1173.332	1.13	30683367	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1626722	0.95	1981019	82.12	30	120	
Sc	45	1	He	732433	2.39	833672	87.86	30	120	
Sc	45	2	NoGas	6910583	0.39	7685379	89.92	30	120	
Rh	103	1	He	1748866	1.31	1912940	91.42	30	120	
In	115	1	He	969694	0.54	1142978	84.84	30	120	
Tb	159	1	He	2704590	1.02	2736958	98.82	30	120	
Ho	165	1	He	2727955	0.87	2784764	97.96	30	120	
Bi	209	1	He	1802670	0.67	1889571	95.40	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-1-c msd
Data File Name	072SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:36:08-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	989.475	989.475	1.20	5264670	0.02	10000	
B	11	45	2	NoGas	1054.485	1054.485	0.94	3576268	0.03	300	>LDR
Na	23	45	1	He	48991.663	48991.663	3.04	69512251	0.07	500000	
Mg	24	45	1	He	24929.125	24929.125	2.52	20309252	0.12	500000	
Al	27	45	1	He	10630.609	10630.609	2.56	5036607	0.21	200000	
K	39	45	1	He	15221.518	15221.518	2.66	13530109	0.11	500000	
Ca	44	45	1	He	81989.216	81989.216	1.95	3739198	2.19	500000	
Ti	47	45	1	He	113.452	113.452	2.51	29557	0.38	2500	
V	51	45	1	He	1043.692	1043.692	1.26	6747337	0.02	10000	
Cr	52	45	1	He	1065.393	1065.393	1.64	7688985	0.01	10000	
Mn	55	45	1	He	4831.420	4831.420	1.64	26822829	0.02	10000	
Fe	56	45	1	He	12242.215	12242.215	1.69	81492026	0.02	200000	
Co	59	45	1	He	1097.990	1097.990	2.05	10760011	0.01	10000	
Ni	60	45	1	He	1144.343	1144.343	2.72	2754154	0.04	10000	
Cu	63	45	1	He	1127.727	1127.727	2.10	7097194	0.02	10000	
Zn	66	45	1	He	1135.805	1135.805	1.42	1489500	0.08	10000	
As	75	115	1	He	1021.428	1021.428	1.55	1065834	0.10	10000	
Se	78	115	1	He	1011.595	1011.595	1.41	87929	1.15	10000	
Sr	88	45	1	He	1457.738	1457.738	1.54	9585530	0.02	10000	
Mo	95	103	1	He	125.231	125.231	1.38	391885	0.03	2000	
Ag	107	103	1	He	112.708	112.708	1.08	1087551	0.01	300	
Cd	111	115	1	He	1205.321	1205.321	1.46	1858421	0.06	4000	
Sn	118	115	1	He	1343.665	1343.665	1.40	5182767	0.03	2000	
Sb	123	115	1	He	124.856	124.856	1.28	504357	0.02	300	
Ba	137	115	1	He	1375.337	1375.337	1.85	2474713	0.06	10000	
W	182	159	1	He	118.408	118.408	1.01	998271	0.01	2500	
Tl	205	165	1	He	254.522	254.522	2.13	5555423	0.00	5000	
Pb	208	165	1	He	1148.838	1148.838	2.18	30356138	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1630683	2.05	1981019	82.32	30	120	
Sc	45	1	He	738257	2.33	833672	88.55	30	120	
Sc	45	2	NoGas	6926141	1.23	7685379	90.12	30	120	
Rh	103	1	He	1797291	0.90	1912940	93.95	30	120	
In	115	1	He	977588	0.89	1142978	85.53	30	120	
Tb	159	1	He	2714121	0.89	2736958	99.17	30	120	
Ho	165	1	He	2756895	1.72	2784764	99.00	30	120	
Bi	209	1	He	1817702	2.00	1889571	96.20	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-2-a
Data File Name	073SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:39:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.944	0.944	0.41	5316	0.02	10000	
B	11	45	2	NoGas	108.102	108.102	0.54	391197	0.03	300	
Na	23	45	1	He	21655.147	21655.147	2.03	31848096	0.07	500000	
Mg	24	45	1	He	7513.087	7513.087	1.35	6341439	0.12	500000	
Al	27	45	1	He	274.504	274.504	1.28	135641	0.20	200000	
K	39	45	1	He	1946.951	1946.951	3.44	1853758	0.11	500000	
Ca	44	45	1	He	28227.330	28227.330	2.01	1333593	2.12	500000	
Ti	47	45	1	He	11.057	11.057	5.43	2996	0.37	2500	
V	51	45	1	He	3.853	3.853	3.98	26163	0.01	10000	
Cr	52	45	1	He	1.803	1.803	2.42	16959	0.01	10000	
Mn	55	45	1	He	150.112	150.112	2.06	863385	0.02	10000	
Fe	56	45	1	He	379.771	379.771	2.45	2629929	0.01	200000	
Co	59	45	1	He	1.297	1.297	3.27	13295	0.01	10000	
Ni	60	45	1	He	5.560	5.560	4.19	14171	0.04	10000	
Cu	63	45	1	He	3.384	3.384	1.15	23498	0.01	10000	
Zn	66	45	1	He	11.906	11.906	3.43	17043	0.07	10000	
As	75	115	1	He	6.012	6.012	1.77	7042	0.09	10000	
Se	78	115	1	He	2.331	2.331	6.55	338	0.69	10000	
Sr	88	45	1	He	168.387	168.387	1.20	1146885	0.01	10000	
Mo	95	103	1	He	8.593	8.593	2.27	28727	0.03	2000	
Ag	107	103	1	He	0.022	0.022	10.41	241	0.01	300	
Cd	111	115	1	He	0.420	0.420	21.61	1838	0.02	4000	
Sn	118	115	1	He	4.029	4.029	17.57	18800	0.02	2000	
Sb	123	115	1	He	1.617	1.617	3.68	7358	0.02	300	
Ba	137	115	1	He	75.974	75.974	0.73	148169	0.05	10000	
W	182	159	1	He	2.302	2.302	8.34	22798	0.01	2500	
Tl	205	165	1	He	0.343	0.343	15.51	7962	0.00	5000	
Pb	208	165	1	He	0.980	0.980	4.20	27367	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1690986	1.52	1981019	85.36	30	120	
Sc	45	1	He	764563	2.30	833672	91.71	30	120	
Sc	45	2	NoGas	7099537	0.36	7685379	92.38	30	120	
Rh	103	1	He	1869618	0.28	1912940	97.74	30	120	
In	115	1	He	1059242	0.60	1142978	92.67	30	120	
Tb	159	1	He	2783078	1.08	2736958	101.69	30	120	
Ho	165	1	He	2834544	1.55	2784764	101.79	30	120	
Bi	209	1	He	1910720	0.68	1889571	101.12	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-3-a
Data File Name	074SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:43:31-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.656	0.656	9.13	3749	0.02	10000	
B	11	45	2	NoGas	64.561	64.561	1.32	240697	0.03	300	
Na	23	45	1	He	19202.745	19202.745	1.94	28577140	0.07	500000	
Mg	24	45	1	He	7241.204	7241.204	2.04	6182953	0.12	500000	
Al	27	45	1	He	811.014	811.014	1.63	403552	0.20	200000	
K	39	45	1	He	1842.804	1842.804	3.84	1778721	0.10	500000	
Ca	44	45	1	He	25472.811	25472.811	3.26	1217129	2.09	500000	
Ti	47	45	1	He	15.573	15.573	19.29	4252	0.37	2500	
V	51	45	1	He	1.889	1.889	11.02	13148	0.01	10000	
Cr	52	45	1	He	2.448	2.448	4.29	22024	0.01	10000	
Mn	55	45	1	He	175.683	175.683	3.17	1021985	0.02	10000	
Fe	56	45	1	He	1330.702	1330.702	3.56	9289165	0.01	200000	
Co	59	45	1	He	1.638	1.638	1.96	16944	0.01	10000	
Ni	60	45	1	He	5.685	5.685	4.11	14648	0.04	10000	
Cu	63	45	1	He	5.295	5.295	4.46	36355	0.01	10000	
Zn	66	45	1	He	24.415	24.415	4.44	34409	0.07	10000	
As	75	115	1	He	1.067	1.067	2.12	1448	0.07	10000	
Se	78	115	1	He	0.514	0.514	21.91	167	0.31	10000	
Sr	88	45	1	He	138.608	138.608	2.63	954893	0.01	10000	
Mo	95	103	1	He	0.918	0.918	8.32	3759	0.02	2000	
Ag	107	103	1	He	0.019	0.019	22.29	207	0.01	300	
Cd	111	115	1	He	0.193	0.193	15.78	1456	0.01	4000	
Sn	118	115	1	He	1.548	1.548	10.43	8425	0.02	2000	
Sb	123	115	1	He	0.598	0.598	3.32	2895	0.02	300	
Ba	137	115	1	He	47.268	47.268	0.42	91971	0.05	10000	
W	182	159	1	He	0.403	0.403	10.90	6409	0.01	2500	
Tl	205	165	1	He	0.080	0.080	5.18	2068	0.00	5000	
Pb	208	165	1	He	3.389	3.389	1.46	93368	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1699875	3.18	1981019	85.81	30	120	
Sc	45	1	He	773621	3.29	833672	92.80	30	120	
Sc	45	2	NoGas	7104973	1.12	7685379	92.45	30	120	
Rh	103	1	He	1855394	2.64	1912940	96.99	30	120	
In	115	1	He	1056597	0.40	1142978	92.44	30	120	
Tb	159	1	He	2781001	1.14	2736958	101.61	30	120	
Ho	165	1	He	2851332	1.20	2784764	102.39	30	120	
Bi	209	1	He	1917434	0.67	1889571	101.47	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	075_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:47:22-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.081	1.365	291971	0.93	50	98.2	89.5	110.5	
B	11	45	2	NoGas	67.180	1.307	266349	0.91	50	134.4	89.5	110.5	CCV Failed
Na	23	45	1	He	24992.008	2.916	40327061	2.54	25000	100.0	89.5	110.5	
Mg	24	45	1	He	24893.490	2.432	23049104	1.89	25000	99.6	89.5	110.5	
Al	27	45	1	He	240.904	3.711	130692	0.62	250	96.4	89.5	110.5	
K	39	45	1	He	24752.536	3.775	24948030	1.05	25000	99.0	89.5	110.5	
Ca	44	45	1	He	24153.179	3.594	1251692	0.71	25000	96.6	89.5	110.5	
Ti	47	45	1	He	49.562	5.200	14673	1.08	50	99.1	89.5	110.5	
V	51	45	1	He	50.633	1.935	372409	2.52	50	101.3	89.5	110.5	
Cr	52	45	1	He	50.889	1.562	421114	2.83	50	101.8	89.5	110.5	
Mn	55	45	1	He	256.232	3.090	1616608	1.17	250	102.5	89.5	110.5	
Fe	56	45	1	He	12734.127	3.278	96304503	1.15	12500	101.9	89.5	110.5	
Co	59	45	1	He	51.366	2.992	572080	1.26	50	102.7	89.5	110.5	
Ni	60	45	1	He	51.717	2.420	141797	1.86	50	103.4	89.5	110.5	
Cu	63	45	1	He	51.883	2.456	372586	1.84	50	103.8	89.5	110.5	
Zn	66	45	1	He	51.601	2.103	77827	2.44	50	103.2	89.5	110.5	
As	75	115	1	He	49.344	1.321	59064	1.87	50	98.7	89.5	110.5	
Se	78	115	1	He	49.270	0.974	5011	1.32	50	98.5	89.5	110.5	
Sr	88	45	1	He	50.593	2.495	378173	1.77	50	101.2	89.5	110.5	
Mo	95	103	1	He	48.467	2.100	164394	1.29	50	96.9	89.5	110.5	
Ag	107	103	1	He	49.587	1.520	517073	1.33	50	99.2	89.5	110.5	
Cd	111	115	1	He	50.686	0.628	90421	1.43	50	101.4	89.5	110.5	
Sn	118	115	1	He	49.531	2.434	220207	2.01	50	99.1	89.5	110.5	
Sb	123	115	1	He	50.974	1.122	235379	1.42	50	101.9	89.5	110.5	
Ba	137	115	1	He	51.052	1.689	104979	2.41	50	102.1	89.5	110.5	
W	182	159	1	He	48.320	1.417	432870	1.00	50	96.6	89.5	110.5	
Tl	205	165	1	He	45.047	0.173	1025202	0.59	50	90.1	89.5	110.5	
Pb	208	165	1	He	50.736	0.881	1398317	1.34	50	101.5	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1822302	0.56	1981019	91.99	30	120	
Sc	45	1	He	839310	4.32	833672	100.68	30	120	
Sc	45	2	NoGas	7577049	1.63	7685379	98.59	30	120	
Rh	103	1	He	1942234	1.31	1912940	101.53	30	120	
In	115	1	He	1116579	0.85	1142978	97.69	30	120	
Tb	159	1	He	2872027	0.56	2736958	104.94	30	120	
Ho	165	1	He	2873344	0.76	2784764	103.18	30	120	
Bi	209	1	He	1947931	1.70	1889571	103.09	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	076_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:51:10-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.378	11.0	2385	6.3	1	
B	11	45	2	NoGas	17.364	1.2	82757	0.6	20	
Na	23	45	1	He	9.839	11.0	56250	1.9	400	
Mg	24	45	1	He	0.902	39.1	2919	9.3	1000	
Al	27	45	1	He	0.529	16.4	1246	2.2	50	
K	39	45	1	He	0.987	173.2	73738	1.1	1000	
Ca	44	45	1	He	6.500	18.2	711	7.5	1000	
Ti	47	45	1	He	0.039	211.4	27	87.5	20	
V	51	45	1	He	0.050	152.7	730	72.6	2	
Cr	52	45	1	He	0.047	63.6	3946	5.2	2	
Mn	55	45	1	He	0.112	18.8	1038	10.5	2	
Fe	56	45	1	He	16.119	34.4	126729	29.3	50	
Co	59	45	1	He	0.030	7.9	443	4.0	1	
Ni	60	45	1	He	-0.047	-15.5	206	7.5	2	
Cu	63	45	1	He	0.408	13.1	4214	7.0	2	
Zn	66	45	1	He	0.324	26.2	1359	7.1	20	
As	75	115	1	He	0.035	17.2	307	2.3	2	
Se	78	115	1	He	0.045	114.6	132	3.6	2	
Sr	88	45	1	He	0.016	26.4	247	13.5	10	
Mo	95	103	1	He	0.803	27.6	3659	21.3	2	
Ag	107	103	1	He	0.010	17.8	131	14.9	0.2	
Cd	111	115	1	He	0.065	25.3	1340	2.7	0.2	
Sn	118	115	1	He	0.440	28.5	4101	13.3	10	
Sb	123	115	1	He	0.546	17.4	2873	15.1	1	
Ba	137	115	1	He	0.032	19.6	111	12.1	5	
W	182	159	1	He	1.165	18.6	13273	14.0	10	
Tl	205	165	1	He	0.048	12.7	1356	11.4	0.5	
Pb	208	165	1	He	0.052	11.2	2187	7.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1842520	4.20	1981019	93.01	30	120	
Sc	45	1	He	786234	1.56	833672	94.31	30	120	
Sc	45	2	NoGas	7610102	0.58	7685379	99.02	30	120	
Rh	103	1	He	2000940	0.30	1912940	104.60	30	120	
In	115	1	He	1138111	0.50	1142978	99.57	30	120	
Tb	159	1	He	2845132	0.43	2736958	103.95	30	120	
Ho	165	1	He	2868286	1.00	2784764	103.00	30	120	
Bi	209	1	He	1960186	1.01	1889571	103.74	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-4-a
Data File Name	077SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:55:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.466	0.466	6.76	2663	0.02	10000	
B	11	45	2	NoGas	77.156	77.156	0.34	285526	0.03	300	
Na	23	45	1	He	20564.717	20564.717	4.40	30876463	0.07	500000	
Mg	24	45	1	He	7363.163	7363.163	3.98	6344519	0.12	500000	
Al	27	45	1	He	270.411	270.411	3.66	136433	0.20	200000	
K	39	45	1	He	1865.551	1865.551	3.31	1817282	0.10	500000	
Ca	44	45	1	He	27339.885	27339.885	2.79	1319041	2.07	500000	
Ti	47	45	1	He	6.267	6.267	6.59	1740	0.36	2500	
V	51	45	1	He	2.266	2.266	9.03	15849	0.01	10000	
Cr	52	45	1	He	1.982	1.982	7.35	18671	0.01	10000	
Mn	55	45	1	He	163.043	163.043	2.78	957705	0.02	10000	
Fe	56	45	1	He	514.350	514.350	2.32	3633915	0.01	200000	
Co	59	45	1	He	1.224	1.224	5.10	12807	0.01	10000	
Ni	60	45	1	He	4.986	4.986	3.34	13013	0.04	10000	
Cu	63	45	1	He	3.436	3.436	3.40	24335	0.01	10000	
Zn	66	45	1	He	15.732	15.732	2.59	22709	0.07	10000	
As	75	115	1	He	3.421	3.421	0.20	4125	0.08	10000	
Se	78	115	1	He	1.065	1.065	22.05	220	0.48	10000	
Sr	88	45	1	He	154.491	154.491	3.20	1074402	0.01	10000	
Mo	95	103	1	He	4.330	4.330	2.40	14709	0.03	2000	
Ag	107	103	1	He	0.010	0.010	21.57	116	0.01	300	
Cd	111	115	1	He	0.146	0.146	20.50	1385	0.01	4000	
Sn	118	115	1	He	1.165	1.165	3.31	6865	0.02	2000	
Sb	123	115	1	He	0.982	0.982	1.63	4593	0.02	300	
Ba	137	115	1	He	60.994	60.994	0.98	119277	0.05	10000	
W	182	159	1	He	0.601	0.601	15.40	7999	0.01	2500	
Tl	205	165	1	He	0.098	0.098	6.41	2398	0.00	5000	
Pb	208	165	1	He	1.960	1.960	2.65	52768	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1682977	0.71	1981019	84.96	30	120	
Sc	45	1	He	781215	4.21	833672	93.71	30	120	
Sc	45	2	NoGas	7134925	0.13	7685379	92.84	30	120	
Rh	103	1	He	1848590	1.07	1912940	96.64	30	120	
In	115	1	He	1062012	0.19	1142978	92.92	30	120	
Tb	159	1	He	2743129	2.19	2736958	100.23	30	120	
Ho	165	1	He	2770687	0.88	2784764	99.49	30	120	
Bi	209	1	He	1906204	0.65	1889571	100.88	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-5-a
Data File Name	078SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T14:58:51-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.406	0.406	4.38	2285	0.02	10000	
B	11	45	2	NoGas	116.622	116.622	2.30	422447	0.03	300	
Na	23	45	1	He	197858.613	197858.613	1.79	289341714	0.07	500000	
Mg	24	45	1	He	12285.469	12285.469	1.62	10320704	0.12	500000	
Al	27	45	1	He	111.900	111.900	2.57	55594	0.20	200000	
K	39	45	1	He	10235.087	10235.087	3.11	9400871	0.11	500000	
Ca	44	45	1	He	90291.480	90291.480	2.60	4244948	2.13	500000	
Ti	47	45	1	He	2.007	2.007	11.17	553	0.36	2500	
V	51	45	1	He	0.641	0.641	34.90	4666	0.01	10000	
Cr	52	45	1	He	3.827	3.827	1.09	31944	0.01	10000	
Mn	55	45	1	He	668.482	668.482	0.79	3827064	0.02	10000	
Fe	56	45	1	He	417.705	417.705	1.37	2878549	0.01	200000	
Co	59	45	1	He	0.321	0.321	6.19	3368	0.01	10000	
Ni	60	45	1	He	2.281	2.281	0.73	5974	0.04	10000	
Cu	63	45	1	He	8.129	8.129	2.77	54158	0.02	10000	
Zn	66	45	1	He	14.228	14.228	1.86	20101	0.07	10000	
As	75	115	1	He	1.830	1.830	1.41	2242	0.08	10000	
Se	78	115	1	He	0.420	0.420	35.54	153	0.27	10000	
Sr	88	45	1	He	357.163	357.163	1.68	2421139	0.01	10000	
Mo	95	103	1	He	387.988	387.988	0.60	1178597	0.03	2000	
Ag	107	103	1	He	1.345	1.345	1.29	12635	0.01	300	
Cd	111	115	1	He	0.141	0.141	65.62	1330	0.01	4000	
Sn	118	115	1	He	1.076	1.076	18.14	6272	0.02	2000	
Sb	123	115	1	He	0.625	0.625	0.80	2924	0.02	300	
Ba	137	115	1	He	88.552	88.552	1.38	167206	0.05	10000	
W	182	159	1	He	0.190	0.190	15.77	4542	0.00	2500	
Tl	205	165	1	He	0.042	0.042	14.90	1148	0.00	5000	
Pb	208	165	1	He	0.434	0.434	5.63	12130	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1644450	1.30	1981019	83.01	30	120	
Sc	45	1	He	761055	2.34	833672	91.29	30	120	
Sc	45	2	NoGas	7130846	1.80	7685379	92.78	30	120	
Rh	103	1	He	1747056	0.70	1912940	91.33	30	120	
In	115	1	He	1025614	0.56	1142978	89.73	30	120	
Tb	159	1	He	2758015	1.01	2736958	100.77	30	120	
Ho	165	1	He	2743499	0.97	2784764	98.52	30	120	
Bi	209	1	He	1772690	0.18	1889571	93.81	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-6-a
Data File Name	079SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:02:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.397	0.397	8.92	2311	0.02	10000	
B	11	45	2	NoGas	48.254	48.254	0.23	187070	0.03	300	
Na	23	45	1	He	14578.591	14578.591	2.66	21693733	0.07	500000	
Mg	24	45	1	He	6397.721	6397.721	1.55	5461232	0.12	500000	
Al	27	45	1	He	1483.044	1483.044	1.68	736880	0.20	200000	
K	39	45	1	He	1632.335	1632.335	2.90	1583437	0.10	500000	
Ca	44	45	1	He	25358.703	25358.703	1.36	1211649	2.09	500000	
Ti	47	45	1	He	21.384	21.384	17.75	5866	0.36	2500	
V	51	45	1	He	2.742	2.742	17.89	18886	0.01	10000	
Cr	52	45	1	He	3.084	3.084	5.37	26819	0.01	10000	
Mn	55	45	1	He	145.816	145.816	1.40	848253	0.02	10000	
Fe	56	45	1	He	2241.305	2241.305	1.80	15636004	0.01	200000	
Co	59	45	1	He	1.622	1.622	1.45	16781	0.01	10000	
Ni	60	45	1	He	4.393	4.393	2.68	11394	0.04	10000	
Cu	63	45	1	He	3.514	3.514	1.79	24623	0.01	10000	
Zn	66	45	1	He	21.229	21.229	1.28	30034	0.07	10000	
As	75	115	1	He	1.071	1.071	6.36	1469	0.07	10000	
Se	78	115	1	He	0.413	0.413	20.82	159	0.26	10000	
Sr	88	45	1	He	129.777	129.777	1.44	893907	0.01	10000	
Mo	95	103	1	He	3.629	3.629	21.01	12546	0.03	2000	
Ag	107	103	1	He	0.024	0.024	28.93	257	0.01	300	
Cd	111	115	1	He	0.128	0.128	9.60	1363	0.01	4000	
Sn	118	115	1	He	0.644	0.644	13.41	4705	0.01	2000	
Sb	123	115	1	He	0.412	0.412	3.06	2102	0.02	300	
Ba	137	115	1	He	57.262	57.262	0.88	112592	0.05	10000	
W	182	159	1	He	0.087	0.087	33.95	3715	0.00	2500	
Tl	205	165	1	He	0.036	0.036	7.79	1044	0.00	5000	
Pb	208	165	1	He	2.283	2.283	0.97	62013	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1700570	2.35	1981019	85.84	30	120	
Sc	45	1	He	773235	2.63	833672	92.75	30	120	
Sc	45	2	NoGas	7214068	0.86	7685379	93.87	30	120	
Rh	103	1	He	1864837	1.35	1912940	97.49	30	120	
In	115	1	He	1067828	0.55	1142978	93.43	30	120	
Tb	159	1	He	2798186	0.92	2736958	102.24	30	120	
Ho	165	1	He	2800321	0.43	2784764	100.56	30	120	
Bi	209	1	He	1923623	1.04	1889571	101.80	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-7-a
Data File Name	080SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:06:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.342	0.342	17.19	1948	0.02	10000	
B	11	45	2	NoGas	153.880	153.880	1.11	545323	0.03	300	
Na	23	45	1	He	258163.644	258163.644	3.52	375721318	0.07	500000	
Mg	24	45	1	He	8307.310	8307.310	2.93	6946767	0.12	500000	
Al	27	45	1	He	316.193	316.193	2.74	154657	0.20	200000	
K	39	45	1	He	2098.052	2098.052	2.17	1974638	0.11	500000	
Ca	44	45	1	He	32984.377	32984.377	0.57	1544961	2.13	500000	
Ti	47	45	1	He	2.731	2.731	12.11	747	0.37	2500	
V	51	45	1	He	0.758	0.758	41.18	5400	0.01	10000	
Cr	52	45	1	He	2.066	2.066	4.92	18742	0.01	10000	
Mn	55	45	1	He	417.313	417.313	3.39	2377439	0.02	10000	
Fe	56	45	1	He	720.868	720.868	2.90	4935536	0.01	200000	
Co	59	45	1	He	0.740	0.740	4.08	7563	0.01	10000	
Ni	60	45	1	He	4.446	4.446	4.86	11290	0.04	10000	
Cu	63	45	1	He	39.758	39.758	2.81	258148	0.02	10000	
Zn	66	45	1	He	13.927	13.927	4.75	19598	0.07	10000	
As	75	115	1	He	2.897	2.897	1.66	3391	0.09	10000	
Se	78	115	1	He	0.725	0.725	16.46	180	0.40	10000	
Sr	88	45	1	He	178.255	178.255	3.17	1202806	0.01	10000	
Mo	95	103	1	He	2.510	2.510	4.54	8342	0.03	2000	
Ag	107	103	1	He	0.017	0.017	10.47	174	0.01	300	
Cd	111	115	1	He	0.176	0.176	7.99	1378	0.01	4000	
Sn	118	115	1	He	0.709	0.709	15.87	4756	0.01	2000	
Sb	123	115	1	He	1.439	1.439	2.33	6337	0.02	300	
Ba	137	115	1	He	45.893	45.893	1.16	86212	0.05	10000	
W	182	159	1	He	0.156	0.156	5.60	4223	0.00	2500	
Tl	205	165	1	He	0.024	0.024	2.26	758	0.00	5000	
Pb	208	165	1	He	3.061	3.061	2.11	80666	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1651555	0.45	1981019	83.37	30	120	
Sc	45	1	He	757794	3.13	833672	90.90	30	120	
Sc	45	2	NoGas	7044159	0.47	7685379	91.66	30	120	
Rh	103	1	He	1739930	0.94	1912940	90.96	30	120	
In	115	1	He	1020127	0.70	1142978	89.25	30	120	
Tb	159	1	He	2738690	1.18	2736958	100.06	30	120	
Ho	165	1	He	2725476	1.56	2784764	97.87	30	120	
Bi	209	1	He	1786486	0.57	1889571	94.54	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-8-a@10
Data File Name	081SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:10:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.224	0.224	25.39	1415	0.02	10000	
B	11	45	2	NoGas	57.697	57.697	0.57	226172	0.03	300	
Na	23	45	1	He	2188853.000	2188853.000	1.73	3168656348	0.07	500000	>LDR
Mg	24	45	1	He	162.296	162.296	1.95	136996	0.12	500000	
Al	27	45	1	He	4.856	4.856	6.05	3288	0.15	200000	
K	39	45	1	He	598.770	598.770	2.00	610293	0.10	500000	
Ca	44	45	1	He	777.521	777.521	1.58	36569	2.13	500000	
Ti	47	45	1	He	0.027	0.027	150.67	22	0.12	2500	
V	51	45	1	He	0.197	0.197	24.90	1675	0.01	10000	
Cr	52	45	1	He	0.464	0.464	12.33	6857	0.01	10000	
Mn	55	45	1	He	15.032	15.032	3.31	85517	0.02	10000	
Fe	56	45	1	He	1.862	1.862	8.92	24959	0.01	200000	
Co	59	45	1	He	0.122	0.122	1.46	1348	0.01	10000	
Ni	60	45	1	He	2.584	2.584	4.76	6659	0.04	10000	
Cu	63	45	1	He	0.140	0.140	12.80	2324	0.01	10000	
Zn	66	45	1	He	0.717	0.717	12.93	1830	0.04	10000	
As	75	115	1	He	0.143	0.143	9.43	379	0.04	10000	
Se	78	115	1	He	0.409	0.409	37.25	147	0.28	10000	
Sr	88	45	1	He	6.620	6.620	2.64	44550	0.01	10000	
Mo	95	103	1	He	0.215	0.215	17.97	1308	0.02	2000	
Ag	107	103	1	He	0.012	0.012	32.71	119	0.01	300	
Cd	111	115	1	He	0.177	0.177	25.05	1335	0.01	4000	
Sn	118	115	1	He	0.047	0.047	46.89	2026	0.00	2000	
Sb	123	115	1	He	0.223	0.223	4.13	1173	0.02	300	
Ba	137	115	1	He	4.863	4.863	1.25	8868	0.05	10000	
W	182	159	1	He	0.042	0.042	72.88	3015	0.00	2500	
Tl	205	165	1	He	0.153	0.153	47.29	3339	0.00	5000	
Pb	208	165	1	He	0.158	0.158	33.25	4544	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1783231	0.41	1981019	90.02	30	120	
Sc	45	1	He	753452	1.95	833672	90.38	30	120	
Sc	45	2	NoGas	7407367	0.81	7685379	96.38	30	120	
Rh	103	1	He	1620025	0.19	1912940	84.69	30	120	
In	115	1	He	986307	0.82	1142978	86.29	30	120	
Tb	159	1	He	2536982	0.50	2736958	92.69	30	120	
Ho	165	1	He	2557264	0.71	2784764	91.83	30	120	
Bi	209	1	He	1364946	0.52	1889571	72.24	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-9-a
Data File Name	082SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:14:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.267	0.267	15.56	1678	0.02	10000	
B	11	45	2	NoGas	54.145	54.145	1.29	213456	0.03	300	
Na	23	45	1	He	19049.112	19049.112	4.15	29473241	0.06	500000	
Mg	24	45	1	He	6993.859	6993.859	3.73	6209576	0.11	500000	
Al	27	45	1	He	681.996	681.996	2.43	353134	0.19	200000	
K	39	45	1	He	3545.163	3545.163	3.02	3491412	0.10	500000	
Ca	44	45	1	He	27063.781	27063.781	3.93	1345086	2.01	500000	
Ti	47	45	1	He	11.073	11.073	10.84	3155	0.35	2500	
V	51	45	1	He	1.008	1.008	28.95	7440	0.01	10000	
Cr	52	45	1	He	24.992	24.992	3.41	200101	0.01	10000	
Mn	55	45	1	He	160.654	160.654	4.05	971927	0.02	10000	
Fe	56	45	1	He	2004.454	2004.454	4.51	14543822	0.01	200000	
Co	59	45	1	He	1.468	1.468	4.64	15809	0.01	10000	
Ni	60	45	1	He	13.785	13.785	4.25	36472	0.04	10000	
Cu	63	45	1	He	22.494	22.494	4.69	155677	0.01	10000	
Zn	66	45	1	He	47.739	47.739	4.49	69072	0.07	10000	
As	75	115	1	He	0.961	0.961	4.11	1385	0.07	10000	
Se	78	115	1	He	0.355	0.355	5.29	158	0.22	10000	
Sr	88	45	1	He	131.888	131.888	3.81	944875	0.01	10000	
Mo	95	103	1	He	1.612	1.612	4.55	6133	0.03	2000	
Ag	107	103	1	He	0.722	0.722	1.39	7376	0.01	300	
Cd	111	115	1	He	0.257	0.257	18.96	1628	0.02	4000	
Sn	118	115	1	He	0.954	0.954	3.11	6198	0.02	2000	
Sb	123	115	1	He	0.496	0.496	4.24	2551	0.02	300	
Ba	137	115	1	He	41.257	41.257	1.26	83664	0.05	10000	
W	182	159	1	He	0.169	0.169	12.82	4482	0.00	2500	
Tl	205	165	1	He	0.035	0.035	14.86	1051	0.00	5000	
Pb	208	165	1	He	2.238	2.238	0.54	62165	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1797737	1.25	1981019	90.75	30	120	
Sc	45	1	He	804990	4.65	833672	96.56	30	120	
Sc	45	2	NoGas	7411572	1.04	7685379	96.44	30	120	
Rh	103	1	He	1896349	0.93	1912940	99.13	30	120	
In	115	1	He	1101148	0.53	1142978	96.34	30	120	
Tb	159	1	He	2832683	0.74	2736958	103.50	30	120	
Ho	165	1	He	2863297	0.62	2784764	102.82	30	120	
Bi	209	1	He	1942323	1.27	1889571	102.79	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-10-a
Data File Name	083SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:18:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.206	0.206	9.11	1285	0.02	10000	
B	11	45	2	NoGas	99.302	99.302	1.91	374748	0.03	300	
Na	23	45	1	He	43834.606	43834.606	1.55	66101446	0.07	500000	
Mg	24	45	1	He	9915.280	9915.280	1.73	8584920	0.12	500000	
Al	27	45	1	He	121.755	121.755	0.35	62272	0.20	200000	
K	39	45	1	He	2308.187	2308.187	0.49	2242061	0.10	500000	
Ca	44	45	1	He	43488.975	43488.975	2.40	2107347	2.06	500000	
Ti	47	45	1	He	0.882	0.882	50.82	259	0.34	2500	
V	51	45	1	He	0.418	0.418	26.08	3247	0.01	10000	
Cr	52	45	1	He	1.519	1.519	3.17	15219	0.01	10000	
Mn	55	45	1	He	3119.474	3119.474	2.55	18398013	0.02	10000	
Fe	56	45	1	He	138.348	138.348	1.92	991099	0.01	200000	
Co	59	45	1	He	0.736	0.736	2.61	7802	0.01	10000	
Ni	60	45	1	He	1.566	1.566	3.66	4328	0.04	10000	
Cu	63	45	1	He	1.500	1.500	2.02	11509	0.01	10000	
Zn	66	45	1	He	7.612	7.612	2.93	11505	0.07	10000	
As	75	115	1	He	0.789	0.789	8.51	1166	0.07	10000	
Se	78	115	1	He	0.233	0.233	40.05	144	0.16	10000	
Sr	88	45	1	He	256.397	256.397	0.89	1791563	0.01	10000	
Mo	95	103	1	He	2.669	2.669	1.98	9519	0.03	2000	
Ag	107	103	1	He	0.005	0.005	40.21	67	0.01	300	
Cd	111	115	1	He	0.110	0.110	41.71	1353	0.01	4000	
Sn	118	115	1	He	0.530	0.530	8.62	4293	0.01	2000	
Sb	123	115	1	He	0.355	0.355	9.36	1880	0.02	300	
Ba	137	115	1	He	100.127	100.127	1.03	200023	0.05	10000	
W	182	159	1	He	0.093	0.093	31.50	3834	0.00	2500	
Tl	205	165	1	He	0.029	0.029	3.27	913	0.00	5000	
Pb	208	165	1	He	0.200	0.200	2.91	6236	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1744496	0.96	1981019	88.06	30	120	
Sc	45	1	He	784337	2.05	833672	94.08	30	120	
Sc	45	2	NoGas	7376140	1.34	7685379	95.98	30	120	
Rh	103	1	He	1877564	1.16	1912940	98.15	30	120	
In	115	1	He	1085062	0.19	1142978	94.93	30	120	
Tb	159	1	He	2849699	0.08	2736958	104.12	30	120	
Ho	165	1	He	2864568	0.94	2784764	102.87	30	120	
Bi	209	1	He	1914069	1.25	1889571	101.30	30	120	

Sample Report

Sample Table

Sample Name	240-49293-a-11-a
Data File Name	084SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:21:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.236	0.236	20.65	1463	0.02	10000	
B	11	45	2	NoGas	184.635	184.635	0.65	685653	0.03	300	
Na	23	45	1	He	64001.842	64001.842	2.60	96967411	0.07	500000	
Mg	24	45	1	He	9417.887	9417.887	1.27	8195927	0.11	500000	
Al	27	45	1	He	360.296	360.296	2.14	183259	0.20	200000	
K	39	45	1	He	2145.471	2145.471	2.18	2099239	0.10	500000	
Ca	44	45	1	He	37567.134	37567.134	2.53	1829671	2.05	500000	
Ti	47	45	1	He	7.874	7.874	14.42	2203	0.36	2500	
V	51	45	1	He	0.961	0.961	12.72	7015	0.01	10000	
Cr	52	45	1	He	2.172	2.172	2.32	20330	0.01	10000	
Mn	55	45	1	He	578.498	578.498	0.96	3430183	0.02	10000	
Fe	56	45	1	He	974.788	974.788	1.01	6941479	0.01	200000	
Co	59	45	1	He	0.862	0.862	1.05	9148	0.01	10000	
Ni	60	45	1	He	5.589	5.589	1.81	14695	0.04	10000	
Cu	63	45	1	He	102.055	102.055	1.44	687264	0.01	10000	
Zn	66	45	1	He	18.589	18.589	2.00	26929	0.07	10000	
As	75	115	1	He	1.689	1.689	0.90	2187	0.08	10000	
Se	78	115	1	He	0.453	0.453	19.24	164	0.28	10000	
Sr	88	45	1	He	235.542	235.542	2.97	1653956	0.01	10000	
Mo	95	103	1	He	1.779	1.779	3.18	6530	0.03	2000	
Ag	107	103	1	He	0.067	0.067	6.99	689	0.01	300	
Cd	111	115	1	He	0.286	0.286	16.58	1639	0.02	4000	
Sn	118	115	1	He	0.630	0.630	4.89	4679	0.01	2000	
Sb	123	115	1	He	2.166	2.166	2.14	9903	0.02	300	
Ba	137	115	1	He	53.568	53.568	1.88	106000	0.05	10000	
W	182	159	1	He	0.083	0.083	34.97	3741	0.00	2500	
Tl	205	165	1	He	0.025	0.025	4.85	816	0.00	5000	
Pb	208	165	1	He	5.785	5.785	2.51	158449	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1748578	1.62	1981019	88.27	30	120	
Sc	45	1	He	788273	1.73	833672	94.55	30	120	
Sc	45	2	NoGas	7420130	0.15	7685379	96.55	30	120	
Rh	103	1	He	1852722	0.45	1912940	96.85	30	120	
In	115	1	He	1074712	0.95	1142978	94.03	30	120	
Tb	159	1	He	2846563	1.32	2736958	104.00	30	120	
Ho	165	1	He	2844693	2.09	2784764	102.15	30	120	
Bi	209	1	He	1913504	1.67	1889571	101.27	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176331/1-a@2
Data File Name	085_Blk.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:25:39-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.189	17.9	1189	15.0	1	
B	11	45	2	NoGas	16.351	1.9	74858	2.1	20	
Na	23	45	1	He	161.530	0.5	288739	1.4	400	
Mg	24	45	1	He	59.754	2.4	54623	3.2	1000	
Al	27	45	1	He	7.374	4.1	4754	3.3	50	
K	39	45	1	He	25.484	2.8	97940	0.3	1000	
Ca	44	45	1	He	214.928	1.7	10962	2.6	1000	
Ti	47	45	1	He	0.375	147.2	121	128.0	20	
V	51	45	1	He	0.207	74.9	1827	58.9	2	
Cr	52	45	1	He	1.770	1.9	17390	0.9	2	
Mn	55	45	1	He	0.655	0.5	4294	1.1	2	
Fe	56	45	1	He	16.827	0.6	133677	1.1	50	
Co	59	45	1	He	0.063	13.7	800	11.2	1	
Ni	60	45	1	He	0.238	17.5	946	10.9	2	
Cu	63	45	1	He	1.557	8.0	12062	8.0	2	
Zn	66	45	1	He	5.597	0.6	8822	1.5	20	
As	75	115	1	He	0.215	5.3	513	2.5	2	
Se	78	115	1	He	-0.075	-64.4	117	4.1	2	
Sr	88	45	1	He	0.541	4.6	3968	4.9	10	
Mo	95	103	1	He	-0.065	-15.8	630	6.1	2	
Ag	107	103	1	He	0.005	24.6	70	16.5	0.2	
Cd	111	115	1	He	0.070	39.4	1315	3.8	0.2	
Sn	118	115	1	He	18.007	0.4	80940	0.5	10	Blank Failed
Sb	123	115	1	He	0.126	4.5	877	3.0	1	
Ba	137	115	1	He	1.073	4.5	2237	4.5	5	
W	182	159	1	He	0.178	19.3	4656	6.3	10	
Tl	205	165	1	He	0.045	39.6	1299	30.6	0.5	
Pb	208	165	1	He	0.286	4.8	8694	3.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1752139	1.31	1981019	88.45	30	120	
Sc	45	1	He	795248	0.97	833672	95.39	30	120	
Sc	45	2	NoGas	7210997	1.59	7685379	93.83	30	120	
Rh	103	1	He	1963296	1.35	1912940	102.63	30	120	
In	115	1	He	1110392	0.14	1142978	97.15	30	120	
Tb	159	1	He	2893318	0.63	2736958	105.71	30	120	
Ho	165	1	He	2900634	1.01	2784764	104.16	30	120	
Bi	209	1	He	2053309	0.66	1889571	108.67	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176331/2-a@2
Data File Name	086LCSS.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:29:31-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	490.247	490.247	1.160	2716464	1.33	500	98.0	78.6	110.5	
B	11	2	NoGas	67.306	67.306	1.711	253472	1.69	50	134.6	79.5	120.5	LCSS Failed
Na	23	1	He	5288.016	5288.016	1.365	7778567	1.41	5000	105.8	79.5	120.5	
Mg	24	1	He	5223.072	5223.072	0.662	4392399	0.62	5000	104.5	79.5	120.5	
Al	27	1	He	4829.510	4829.510	1.207	2361550	1.02	5000	96.6	79.5	120.5	
K	39	1	He	5073.801	5073.801	1.444	4700508	0.79	5000	101.5	79.5	120.5	
Ca	44	1	He	4824.563	4824.563	0.075	227393	1.11	5000	96.5	79.5	120.5	
Ti	47	1	He	50.744	50.744	2.978	13647	1.83	50	101.5	79.5	120.5	
V	51	1	He	517.642	517.642	1.536	3452424	0.39	500	103.5	71.5	110.5	
Cr	52	1	He	533.421	533.421	0.840	3973553	0.34	500	106.7	69.5	110.5	
Mn	55	1	He	520.058	520.058	1.150	2979178	1.05	500	104.0	79.5	120.5	
Fe	56	1	He	5341.500	5341.500	0.428	36693074	0.86	5000	106.8	79.5	120.5	
Co	59	1	He	551.694	551.694	2.030	5577702	0.85	500	110.3	73.9	110.5	
Ni	60	1	He	528.192	528.192	1.457	1311846	0.28	500	105.6	74.9	110.5	
Cu	63	1	He	576.375	576.375	1.362	3743316	0.93	500	115.3	72.6	110.5	LCSS Failed
Zn	66	1	He	514.292	514.292	0.755	696265	0.61	500	102.9	71.5	113.4	
As	75	1	He	475.134	475.134	0.412	528903	0.34	500	95.0	73.4	110.5	
Se	78	1	He	465.149	465.149	0.627	43184	0.61	500	93.0	64.6	110.5	
Sr	88	1	He	561.619	561.619	1.923	3809832	0.75	500	112.3	79.5	120.5	
Mo	95	1	He	52.089	52.089	0.813	172615	0.71	50	104.2	29.5	140.5	
Ag	107	1	He	49.607	49.607	0.691	505541	0.68	50	99.2	59.5	114.5	
Cd	111	1	He	510.582	510.582	0.375	840253	0.30	500	102.1	73.5	110.5	
Sn	118	1	He	608.860	608.860	0.203	2505616	0.24	500	121.8	79.5	120.5	LCSS Failed
Sb	123	1	He	51.910	51.910	0.969	223797	0.84	50	103.8	67.5	113.4	
Ba	137	1	He	509.120	509.120	0.706	977048	0.78	500	101.8	69.5	110.5	
W	182	1	He	50.845	50.845	1.534	448940	1.10	50	101.7	74.6	125.4	
Tl	205	1	He	129.883	129.883	1.482	2944450	0.77	125	103.9	70.6	110.5	
Pb	208	1	He	580.658	580.658	1.718	15935253	1.01	500	116.1	74.6	110.5	LCSS Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1697948	1.02	1981019	85.71	30	120	
Sc	45	1	He	761532	1.18	833672	91.35	30	120	
Sc	45	2	NoGas	7197342	0.15	7685379	93.65	30	120	
Rh	103	1	He	1898114	1.35	1912940	99.22	30	120	
In	115	1	He	1042531	0.13	1142978	91.21	30	120	
Tb	159	1	He	2831941	1.45	2736958	103.47	30	120	
Ho	165	1	He	2862795	0.73	2784764	102.80	30	120	
Bi	209	1	He	1951470	1.43	1889571	103.28	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	087_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:33:10-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.468	0.615	301824	1.31	50	98.9	89.5	110.5	
B	11	45	2	NoGas	58.276	1.894	239951	1.58	50	116.6	89.5	110.5	CCV Failed
Na	23	45	1	He	25506.849	3.501	41267841	0.68	25000	102.0	89.5	110.5	
Mg	24	45	1	He	25083.109	2.037	23296368	1.89	25000	100.3	89.5	110.5	
Al	27	45	1	He	243.635	3.184	132581	1.08	250	97.5	89.5	110.5	
K	39	45	1	He	25049.029	2.660	25328938	1.27	25000	100.2	89.5	110.5	
Ca	44	45	1	He	24854.503	4.549	1291783	2.26	25000	99.4	89.5	110.5	
Ti	47	45	1	He	50.037	4.911	14864	3.02	50	100.1	89.5	110.5	
V	51	45	1	He	50.874	3.505	375131	0.95	50	101.7	89.5	110.5	
Cr	52	45	1	He	51.289	2.426	425546	1.57	50	102.6	89.5	110.5	
Mn	55	45	1	He	261.629	4.110	1655195	0.87	250	104.7	89.5	110.5	
Fe	56	45	1	He	12939.486	2.467	98172245	1.51	12500	103.5	89.5	110.5	
Co	59	45	1	He	51.559	2.930	575966	0.98	50	103.1	89.5	110.5	
Ni	60	45	1	He	51.948	2.336	142859	1.58	50	103.9	89.5	110.5	
Cu	63	45	1	He	52.942	3.235	381231	1.32	50	105.9	89.5	110.5	
Zn	66	45	1	He	52.655	3.460	79603	0.60	50	105.3	89.5	110.5	
As	75	115	1	He	50.323	0.857	60556	1.49	50	100.6	89.5	110.5	
Se	78	115	1	He	49.520	1.376	5063	1.38	50	99.0	89.5	110.5	
Sr	88	45	1	He	51.002	2.765	382347	1.17	50	102.0	89.5	110.5	
Mo	95	103	1	He	49.278	2.687	168256	1.58	50	98.6	89.5	110.5	
Ag	107	103	1	He	50.131	2.045	526297	1.76	50	100.3	89.5	110.5	
Cd	111	115	1	He	51.214	1.457	91845	2.08	50	102.4	89.5	110.5	
Sn	118	115	1	He	50.077	1.245	223843	1.89	50	100.2	89.5	110.5	
Sb	123	115	1	He	52.300	0.205	242796	0.45	50	104.6	89.5	110.5	
Ba	137	115	1	He	50.691	1.454	104798	2.11	50	101.4	89.5	110.5	
W	182	159	1	He	48.798	0.400	446468	0.71	50	97.6	89.5	110.5	
Tl	205	165	1	He	45.354	0.342	1054654	0.69	50	90.7	89.5	110.5	
Pb	208	165	1	He	50.859	0.579	1432205	1.14	50	101.7	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1868962	1.05	1981019	94.34	30	120	
Sc	45	1	He	841767	3.94	833672	100.97	30	120	
Sc	45	2	NoGas	7786813	0.19	7685379	101.32	30	120	
Rh	103	1	He	1955432	1.19	1912940	102.22	30	120	
In	115	1	He	1122604	0.66	1142978	98.22	30	120	
Tb	159	1	He	2933309	0.36	2736958	107.17	30	120	
Ho	165	1	He	2935839	0.59	2784764	105.43	30	120	
Bi	209	1	He	1986898	0.70	1889571	105.15	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	088_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:37:00-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.230	12.8	1522	12.1	1	
B	11	45	2	NoGas	9.465	3.5	53363	1.6	20	
Na	23	45	1	He	51.114	3.6	118830	0.6	400	
Mg	24	45	1	He	0.733	73.5	2774	14.9	1000	
Al	27	45	1	He	0.751	30.0	1359	6.3	50	
K	39	45	1	He	3.584	71.5	76335	2.7	1000	
Ca	44	45	1	He	6.697	20.7	721	7.3	1000	
Ti	47	45	1	He	0.059	32.1	32	15.8	20	
V	51	45	1	He	-0.043	-136.4	84	485.3	2	
Cr	52	45	1	He	0.024	140.4	3776	4.8	2	
Mn	55	45	1	He	0.080	20.6	851	12.0	2	
Fe	56	45	1	He	15.363	38.2	121525	32.2	50	
Co	59	45	1	He	0.028	19.2	422	15.0	1	
Ni	60	45	1	He	-0.059	-1.8	176	2.9	2	
Cu	63	45	1	He	0.515	8.9	4942	5.0	2	
Zn	66	45	1	He	0.255	41.5	1267	11.7	20	
As	75	115	1	He	0.023	40.1	296	4.0	2	
Se	78	115	1	He	-0.025	-122.9	127	2.6	2	
Sr	88	45	1	He	0.023	34.6	294	17.0	10	
Mo	95	103	1	He	0.774	33.8	3594	26.1	2	
Ag	107	103	1	He	0.008	34.0	112	28.2	0.2	
Cd	111	115	1	He	0.073	56.2	1370	5.3	0.2	
Sn	118	115	1	He	0.425	20.6	4082	9.8	10	
Sb	123	115	1	He	0.516	9.8	2765	8.9	1	
Ba	137	115	1	He	0.042	14.0	134	9.4	5	
W	182	159	1	He	1.070	20.5	12694	14.6	10	
Tl	205	165	1	He	0.056	10.9	1549	9.3	0.5	
Pb	208	165	1	He	0.047	2.8	2075	2.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1867304	1.22	1981019	94.26	30	120	
Sc	45	1	He	787813	1.98	833672	94.50	30	120	
Sc	45	2	NoGas	7597485	1.06	7685379	98.86	30	120	
Rh	103	1	He	2018955	1.09	1912940	105.54	30	120	
In	115	1	He	1151800	0.14	1142978	100.77	30	120	
Tb	159	1	He	2906138	0.95	2736958	106.18	30	120	
Ho	165	1	He	2909661	0.78	2784764	104.49	30	120	
Bi	209	1	He	2018104	1.35	1889571	106.80	30	120	

Sample Report

Sample Table

Sample Name	240-49043-a-1-b@2
Data File Name	089SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:40:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	7.548	7.548	1.05	41150	0.02	10000	
B	11	45	2	NoGas	72.719	72.719	0.47	303623	0.02	300	
Na	23	45	1	He	8577.873	8577.873	2.25	14510374	0.06	500000	
Mg	24	45	1	He	61822.373	61822.373	1.36	59885007	0.10	500000	
Al	27	45	1	He	113098.772	113098.772	1.43	63704929	0.18	200000	
K	39	45	1	He	12126.277	12126.277	1.48	12832757	0.09	500000	
Ca	44	45	1	He	209937.140	209937.140	0.70	11383906	1.84	500000	
Ti	47	45	1	He	731.068	731.068	1.41	226373	0.32	2500	
V	51	45	1	He	286.235	286.235	1.89	2200020	0.01	10000	
Cr	52	45	1	He	384.520	384.520	1.07	3302016	0.01	10000	
Mn	55	45	1	He	2388.576	2388.576	1.61	15765566	0.02	10000	
Fe	56	45	1	He	180498.208	180498.208	1.25	1428309988	0.01	200000	
Co	59	45	1	He	76.821	76.821	1.48	895197	0.01	10000	
Ni	60	45	1	He	417.574	417.574	1.69	1195181	0.03	10000	
Cu	63	45	1	He	305.178	305.178	1.81	2284639	0.01	10000	
Zn	66	45	1	He	665.498	665.498	1.32	1037927	0.06	10000	
As	75	115	1	He	63.985	63.985	1.23	69578	0.09	10000	
Se	78	115	1	He	14.156	14.156	1.27	1391	1.02	10000	
Sr	88	45	1	He	434.962	434.962	2.18	3400184	0.01	10000	
Mo	95	103	1	He	31.366	31.366	2.40	97646	0.03	2000	
Ag	107	103	1	He	0.479	0.479	4.18	4593	0.01	300	
Cd	111	115	1	He	6.315	6.315	1.67	11200	0.06	4000	
Sn	118	115	1	He	24.927	24.927	1.31	101731	0.02	2000	
Sb	123	115	1	He	1.849	1.849	0.97	8025	0.02	300	
Ba	137	115	1	He	1030.808	1030.808	1.61	1926731	0.05	10000	
W	182	159	1	He	0.921	0.921	7.62	11282	0.01	2500	
Tl	205	165	1	He	2.587	2.587	2.09	60065	0.00	5000	
Pb	208	165	1	He	149.557	149.557	0.67	4187123	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1666353	1.12	1981019	84.12	30	120	
Sc	45	1	He	877659	2.17	833672	105.28	30	120	
Sc	45	2	NoGas	8020637	0.80	7685379	104.36	30	120	
Rh	103	1	He	1777728	1.36	1912940	92.93	30	120	
In	115	1	He	1015433	0.13	1142978	88.84	30	120	
Tb	159	1	He	2884810	1.10	2736958	105.40	30	120	
Ho	165	1	He	2919964	0.89	2784764	104.86	30	120	
Bi	209	1	He	1911376	0.79	1889571	101.15	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49043-a-1-b@10
Data File Name	090SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:44:32-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.772	1.772	4.62	10159	0.02	10000	
B	11	45	2	NoGas	22.073	22.073	2.03	100926	0.02	300	
Na	23	45	1	He	2004.057	2004.057	1.93	3239708	0.06	500000	
Mg	24	45	1	He	14203.336	14203.336	1.82	13013406	0.11	500000	
Al	27	45	1	He	25775.016	25775.016	0.71	13733662	0.19	200000	
K	39	45	1	He	2821.635	2821.635	2.75	2882670	0.10	500000	
Ca	44	45	1	He	48774.572	48774.572	2.28	2501272	1.95	500000	
Ti	47	45	1	He	167.123	167.123	2.48	48950	0.34	2500	
V	51	45	1	He	60.963	60.963	0.78	443552	0.01	10000	
Cr	52	45	1	He	85.788	85.788	1.07	699698	0.01	10000	
Mn	55	45	1	He	555.596	555.596	1.38	3468768	0.02	10000	
Fe	56	45	1	He	41482.717	41482.717	0.94	310519072	0.01	200000	
Co	59	45	1	He	17.829	17.829	0.71	196659	0.01	10000	
Ni	60	45	1	He	98.747	98.747	0.17	267638	0.04	10000	
Cu	63	45	1	He	67.140	67.140	0.95	476655	0.01	10000	
Zn	66	45	1	He	160.779	160.779	0.66	237912	0.07	10000	
As	75	115	1	He	12.651	12.651	0.26	15297	0.08	10000	
Se	78	115	1	He	2.837	2.837	4.80	406	0.70	10000	
Sr	88	45	1	He	89.360	89.360	1.00	660894	0.01	10000	
Mo	95	103	1	He	5.831	5.831	2.96	20247	0.03	2000	
Ag	107	103	1	He	0.093	0.093	5.98	977	0.01	300	
Cd	111	115	1	He	1.263	1.263	1.86	3414	0.04	4000	
Sn	118	115	1	He	4.839	4.839	2.73	23335	0.02	2000	
Sb	123	115	1	He	0.364	0.364	2.07	1975	0.02	300	
Ba	137	115	1	He	178.685	178.685	1.24	366354	0.05	10000	
W	182	159	1	He	0.181	0.181	12.86	4764	0.00	2500	
Tl	205	165	1	He	0.565	0.565	1.59	13531	0.00	5000	
Pb	208	165	1	He	29.205	29.205	1.40	830909	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1738644	1.08	1981019	87.77	30	120	
Sc	45	1	He	830071	2.01	833672	99.57	30	120	
Sc	45	2	NoGas	7663578	0.42	7685379	99.72	30	120	
Rh	103	1	He	1916973	1.50	1912940	100.21	30	120	
In	115	1	He	1113725	0.27	1142978	97.44	30	120	
Tb	159	1	He	2940646	0.86	2736958	107.44	30	120	
Ho	165	1	He	2965159	0.44	2784764	106.48	30	120	
Bi	209	1	He	1997894	0.28	1889571	105.73	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49043-a-1-b@2
Data File Name	091SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:48:19-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	986.032	986.032	1.57	5372725	0.02	10000	
B	11	45	2	NoGas	161.488	161.488	0.80	662014	0.02	300	
Na	23	45	1	He	16965.529	16965.529	1.66	28661200	0.06	500000	
Mg	24	45	1	He	67967.967	67967.967	2.44	65847162	0.10	500000	
Al	27	45	1	He	116617.756	116617.756	1.28	65703660	0.18	200000	
K	39	45	1	He	20408.803	20408.803	1.69	21547153	0.09	500000	
Ca	44	45	1	He	212734.474	212734.474	1.25	11537372	1.84	500000	
Ti	47	45	1	He	795.807	795.807	1.54	246480	0.32	2500	
V	51	45	1	He	1152.626	1152.626	1.27	8860745	0.01	10000	
Cr	52	45	1	He	1267.958	1267.958	1.43	10881186	0.01	10000	
Mn	55	45	1	He	3195.865	3195.865	1.61	21098887	0.02	10000	
Fe	56	45	1	He	184216.814	184216.814	0.74	1458142058	0.01	200000	
Co	59	45	1	He	1004.550	1004.550	1.32	11707679	0.01	10000	
Ni	60	45	1	He	1384.064	1384.064	1.44	3961759	0.03	10000	
Cu	63	45	1	He	1219.266	1219.266	1.10	9125730	0.01	10000	
Zn	66	45	1	He	1593.287	1593.287	1.03	2484179	0.06	10000	
As	75	115	1	He	1078.285	1078.285	0.47	1126809	0.10	10000	
Se	78	115	1	He	1014.921	1014.921	0.75	88346	1.15	10000	
Sr	88	45	1	He	1370.277	1370.277	1.26	10715097	0.01	10000	
Mo	95	103	1	He	144.119	144.119	1.14	442650	0.03	2000	
Ag	107	103	1	He	99.922	99.922	0.66	946646	0.01	300	
Cd	111	115	1	He	1188.309	1188.309	0.75	1834953	0.06	4000	
Sn	118	115	1	He	1244.360	1244.360	0.54	4806628	0.03	2000	
Sb	123	115	1	He	111.550	111.550	0.24	451296	0.02	300	
Ba	137	115	1	He	2240.068	2240.068	0.98	4036472	0.06	10000	
W	182	159	1	He	101.312	101.312	1.03	918174	0.01	2500	
Tl	205	165	1	He	244.455	244.455	2.00	5669323	0.00	5000	
Pb	208	165	1	He	1226.687	1226.687	2.66	34436856	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1669810	0.92	1981019	84.29	30	120	
Sc	45	1	He	877804	1.34	833672	105.29	30	120	
Sc	45	2	NoGas	8160972	1.03	7685379	106.19	30	120	
Rh	103	1	He	1764522	0.41	1912940	92.24	30	120	
In	115	1	He	978953	0.48	1142978	85.65	30	120	
Tb	159	1	He	2916161	0.42	2736958	106.55	30	120	
Ho	165	1	He	2929408	2.13	2784764	105.19	30	120	
Bi	209	1	He	1848125	1.59	1889571	97.81	30	120	

Sample Report

Sample Table

Sample Name	240-49043-a-1-c ms@2
Data File Name	092SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:51:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	484.007	484.007	1.11	2625598	0.02	10000	
B	11	45	2	NoGas	135.866	135.866	0.45	574058	0.02	300	
Na	23	45	1	He	12896.384	12896.384	1.08	21477380	0.06	500000	
Mg	24	45	1	He	64934.601	64934.601	0.82	61986735	0.10	500000	
Al	27	45	1	He	134488.533	134488.533	0.17	74656948	0.18	200000	
K	39	45	1	He	18674.206	18674.206	0.86	19432880	0.10	500000	
Ca	44	45	1	He	207023.711	207023.711	0.77	11062648	1.87	500000	
Ti	47	45	1	He	944.956	944.956	0.98	288358	0.33	2500	
V	51	45	1	He	755.917	755.917	1.32	5725584	0.01	10000	
Cr	52	45	1	He	857.203	857.203	0.42	7249546	0.01	10000	
Mn	55	45	1	He	2732.670	2732.670	0.20	17776189	0.02	10000	
Fe	56	45	1	He	192462.438	192462.438	0.89	1501002998	0.01	200000	
Co	59	45	1	He	542.863	542.863	0.89	6233501	0.01	10000	
Ni	60	45	1	He	951.111	951.111	0.47	2682597	0.04	10000	
Cu	63	45	1	He	769.192	769.192	1.14	5672728	0.01	10000	
Zn	66	45	1	He	1242.797	1242.797	1.12	1909314	0.07	10000	
As	75	115	1	He	539.231	539.231	0.77	578551	0.09	10000	
Se	78	115	1	He	477.141	477.141	1.24	42694	1.12	10000	
Sr	88	45	1	He	923.841	923.841	0.35	7117932	0.01	10000	
Mo	95	103	1	He	85.120	85.120	0.55	265040	0.03	2000	
Ag	107	103	1	He	49.012	49.012	0.22	470177	0.01	300	
Cd	111	115	1	He	501.820	501.820	0.53	796043	0.06	4000	
Sn	118	115	1	He	560.896	560.896	0.84	2225041	0.03	2000	
Sb	123	115	1	He	13.505	13.505	1.71	56319	0.02	300	
Ba	137	115	1	He	1655.034	1655.034	2.16	3061215	0.05	10000	
W	182	159	1	He	27.449	27.449	0.88	253325	0.01	2500	
Tl	205	165	1	He	120.520	120.520	0.64	2798012	0.00	5000	
Pb	208	165	1	He	694.684	694.684	0.77	19523486	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1662339	0.55	1981019	83.91	30	120	
Sc	45	1	He	864804	0.65	833672	103.73	30	120	
Sc	45	2	NoGas	8364055	0.68	7685379	108.83	30	120	
Rh	103	1	He	1786672	0.41	1912940	93.40	30	120	
In	115	1	He	1004921	0.62	1142978	87.92	30	120	
Tb	159	1	He	2943199	1.48	2736958	107.54	30	120	
Ho	165	1	He	2931619	0.84	2784764	105.27	30	120	
Bi	209	1	He	1870646	0.22	1889571	99.00	30	120	

Sample Report

Sample Table

Sample Name	240-49043-a-1-d msd@2
Data File Name	093SMPL.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:55:23-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	484.071	484.071	2.70	2635379	0.02	10000	
B	11	45	2	NoGas	135.106	135.106	0.74	559871	0.02	300	
Na	23	45	1	He	13008.459	13008.459	0.73	21407868	0.06	500000	
Mg	24	45	1	He	64051.019	64051.019	0.18	60421579	0.11	500000	
Al	27	45	1	He	133174.475	133174.475	0.81	73051044	0.18	200000	
K	39	45	1	He	18340.703	18340.703	0.40	18861879	0.10	500000	
Ca	44	45	1	He	201769.726	201769.726	1.44	10654011	1.89	500000	
Ti	47	45	1	He	980.927	980.927	0.59	295800	0.33	2500	
V	51	45	1	He	765.910	765.910	0.95	5732747	0.01	10000	
Cr	52	45	1	He	873.290	873.290	1.40	7297872	0.01	10000	
Mn	55	45	1	He	2764.067	2764.067	1.34	17767388	0.02	10000	
Fe	56	45	1	He	195440.913	195440.913	1.08	1506106393	0.01	200000	
Co	59	45	1	He	557.195	557.195	0.60	6322484	0.01	10000	
Ni	60	45	1	He	978.120	978.120	0.39	2726091	0.04	10000	
Cu	63	45	1	He	799.522	799.522	0.99	5826684	0.01	10000	
Zn	66	45	1	He	1275.955	1275.955	0.31	1937104	0.07	10000	
As	75	115	1	He	546.736	546.736	0.74	584872	0.09	10000	
Se	78	115	1	He	484.219	484.219	0.86	43199	1.12	10000	
Sr	88	45	1	He	916.751	916.751	0.31	6979679	0.01	10000	
Mo	95	103	1	He	87.631	87.631	0.33	272770	0.03	2000	
Ag	107	103	1	He	49.712	49.712	0.76	476765	0.01	300	
Cd	111	115	1	He	512.923	512.923	0.63	811231	0.06	4000	
Sn	118	115	1	He	561.968	561.968	1.58	2222697	0.03	2000	
Sb	123	115	1	He	13.446	13.446	0.89	55913	0.02	300	
Ba	137	115	1	He	1672.108	1672.108	0.93	3083873	0.05	10000	
W	182	159	1	He	28.174	28.174	1.22	259300	0.01	2500	
Tl	205	165	1	He	121.141	121.141	2.86	2835767	0.00	5000	
Pb	208	165	1	He	695.999	695.999	2.14	19724766	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1668566	1.06	1981019	84.23	30	120	
Sc	45	1	He	854568	0.25	833672	102.51	30	120	
Sc	45	2	NoGas	8201772	0.63	7685379	106.72	30	120	
Rh	103	1	He	1786238	0.71	1912940	93.38	30	120	
In	115	1	He	1001943	0.24	1142978	87.66	30	120	
Tb	159	1	He	2935735	0.08	2736958	107.26	30	120	
Ho	165	1	He	2957023	2.14	2784764	106.19	30	120	
Bi	209	1	He	1864640	1.28	1889571	98.68	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	094_CCV.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T15:58:56-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	79.069	18.864	294594	0.96	50	158.1	89.5	110.5	CCV Failed
B	11	45	2	NoGas	82.324	5.351	232363	0.51	50	164.6	89.5	110.5	CCV Failed
Na	23	45	1	He	25519.374	2.839	40069231	0.80	25000	102.1	89.5	110.5	
Mg	24	45	1	He	25537.000	3.158	23007135	0.34	25000	102.1	89.5	110.5	
Al	27	45	1	He	261.487	1.393	138046	1.76	250	104.6	89.5	110.5	
K	39	45	1	He	25399.482	3.159	24916598	0.17	25000	101.6	89.5	110.5	
Ca	44	45	1	He	24713.945	2.569	1246787	0.82	25000	98.9	89.5	110.5	
Ti	47	45	1	He	52.110	0.834	15031	2.79	50	104.2	89.5	110.5	
V	51	45	1	He	51.682	2.818	369841	1.18	50	103.4	89.5	110.5	
Cr	52	45	1	He	52.407	2.311	421822	0.72	50	104.8	89.5	110.5	
Mn	55	45	1	He	265.489	2.174	1630800	2.63	250	106.2	89.5	110.5	
Fe	56	45	1	He	13227.314	3.035	97361956	0.55	12500	105.8	89.5	110.5	
Co	59	45	1	He	52.979	1.787	574408	1.61	50	106.0	89.5	110.5	
Ni	60	45	1	He	53.603	1.321	143048	1.81	50	107.2	89.5	110.5	
Cu	63	45	1	He	54.365	2.005	379897	1.01	50	108.7	89.5	110.5	
Zn	66	45	1	He	53.169	2.097	78007	0.93	50	106.3	89.5	110.5	
As	75	115	1	He	49.596	1.668	59464	0.65	50	99.2	89.5	110.5	
Se	78	115	1	He	48.883	0.580	4982	0.60	50	97.8	89.5	110.5	
Sr	88	45	1	He	52.192	2.720	379645	0.56	50	104.4	89.5	110.5	
Mo	95	103	1	He	48.729	1.154	168235	2.78	50	97.5	89.5	110.5	
Ag	107	103	1	He	49.496	3.264	525067	1.45	50	99.0	89.5	110.5	
Cd	111	115	1	He	51.470	1.936	91952	0.91	50	102.9	89.5	110.5	
Sn	118	115	1	He	50.102	2.113	223115	1.26	50	100.2	89.5	110.5	
Sb	123	115	1	He	52.249	2.116	241665	1.15	50	104.5	89.5	110.5	
Ba	137	115	1	He	51.641	1.317	106365	0.56	50	103.3	89.5	110.5	
W	182	159	1	He	49.028	1.957	446085	1.23	50	98.1	89.5	110.5	
Tl	205	165	1	He	45.052	1.755	1054642	0.81	50	90.1	89.5	110.5	
Pb	208	165	1	He	51.114	2.172	1448948	1.26	50	102.2	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1167501	17.91	1981019	58.93	30	120	
Sc	45	1	He	816625	3.03	833672	97.96	30	120	
Sc	45	2	NoGas	5472888	5.61	7685379	71.21	30	120	
Rh	103	1	He	1976528	1.87	1912940	103.32	30	120	
In	115	1	He	1118601	1.02	1142978	97.87	30	120	
Tb	159	1	He	2917490	0.95	2736958	106.60	30	120	
Ho	165	1	He	2955843	1.00	2784764	106.14	30	120	
Bi	209	1	He	2007522	0.42	1889571	106.24	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	095_CCB.d
Data Path Name	D:\Analytical Runs\I10041515B.b
Acq Date Time	2015-04-15T16:02:45-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.399	0.8	2489	0.8	1	
B	11	45	2	NoGas	8.457	2.5	49979	1.8	20	
Na	23	45	1	He	26.864	9.5	81317	4.0	400	
Mg	24	45	1	He	2.606	5.4	4364	1.8	1000	
Al	27	45	1	He	4.954	5.0	3450	2.5	50	
K	39	45	1	He	0.859	303.1	73036	2.7	1000	
Ca	44	45	1	He	12.394	8.4	989	4.4	1000	
Ti	47	45	1	He	0.182	44.3	66	33.1	20	
V	51	45	1	He	0.015	896.9	482	186.0	2	
Cr	52	45	1	He	0.059	12.2	4010	2.8	2	
Mn	55	45	1	He	0.149	4.8	1242	2.3	2	
Fe	56	45	1	He	26.174	22.7	196621	20.3	50	
Co	59	45	1	He	0.032	31.0	459	21.5	1	
Ni	60	45	1	He	-0.033	-36.1	239	13.2	2	
Cu	63	45	1	He	0.293	5.9	3424	3.5	2	
Zn	66	45	1	He	0.319	27.6	1341	7.7	20	
As	75	115	1	He	0.027	77.9	300	9.4	2	
Se	78	115	1	He	-0.036	-62.9	125	2.1	2	
Sr	88	45	1	He	0.032	11.1	353	5.9	10	
Mo	95	103	1	He	0.737	30.0	3457	23.4	2	
Ag	107	103	1	He	0.009	4.1	118	3.3	0.2	
Cd	111	115	1	He	0.109	29.5	1428	4.3	0.2	
Sn	118	115	1	He	0.541	13.5	4582	7.5	10	
Sb	123	115	1	He	0.491	16.5	2627	13.8	1	
Ba	137	115	1	He	0.053	26.2	156	18.7	5	
W	182	159	1	He	1.038	18.4	12472	14.0	10	
Tl	205	165	1	He	0.065	9.7	1771	8.2	0.5	
Pb	208	165	1	He	0.050	11.5	2152	7.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1823507	1.50	1981019	92.05	30	120	
Sc	45	1	He	780013	1.46	833672	93.56	30	120	
Sc	45	2	NoGas	7649918	0.74	7685379	99.54	30	120	
Rh	103	1	He	2015359	0.95	1912940	105.35	30	120	
In	115	1	He	1145313	0.73	1142978	100.20	30	120	
Tb	159	1	He	2918036	1.20	2736958	106.62	30	120	
Ho	165	1	He	2920151	0.76	2784764	104.86	30	120	
Bi	209	1	He	2027670	0.75	1889571	107.31	30	120	

MTMSCCBDILH20-192 EPA Tune Solution Spex CL11-62YPY

TestAmerica ICP/MS Data Review Checklist

Run Date: 4/20/15 Analyst: AS Instrument: I10

Review Items A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels? Correlation coefficient > 0.995?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (*ICV*: = 90 – 110%) (*CCV*: 90 – 110%, 200.8 = 85 -115%)	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%) or project limits?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Were the internal standards within acceptance criteria for all results reported?	✓			✓
4. Sample analyses done within holding time?	✓			✓
D. Preparation/Matrix QC	✓			✓
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?				
E. Other	✓			✓
1. Are all nonconformance's documented appropriately?	✓			✓
2. Current IDL/LR data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

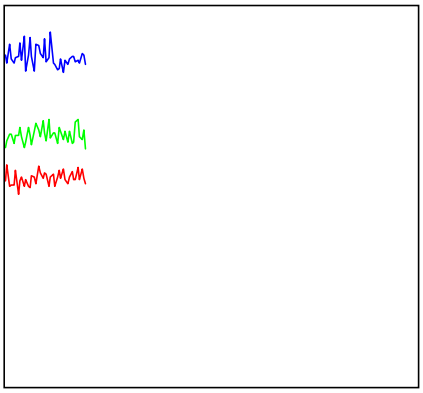
Level I Analyst: Anjali Sharma Date: 4/20/15 Time: 10:21 – 11:54
Level I Analyst: [signature] Date: 4/22/15 Time: 12:15 - 21:48

Level II Reviewer: [signature] Date: 4/20/15 Time: 10:21 - 11:54
Level II Reviewer: [signature] Date: 04/22/2015 Time: 10:21 - 21:48

Comments:

Current Signal

[NoGas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2676	2738.7	3.22
89	5000	3124	3309.1	3.11
205	5000	4243	4339.8	2.96
156/140	1	0.385 %	0.605 %	28.72
70/140	2	1.130 %	1.054 %	19.83
115	200	42	47.2	37.88
63	500	349	335.9	7.57
60	50	30	27.6	23.31
121	50	21	10.9	41.42
Integration Time [sec]		0.10		

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

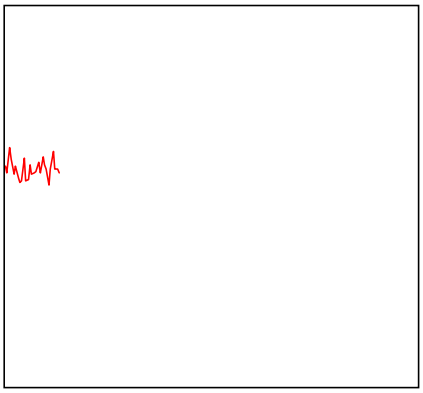
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	15.00	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	5.98E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	2000	1122	1142.2	4.30
51	50	43	34.7	20.79
52	200	152	130.1	11.15
51/59	5	3.831 %	3.040 %	20.85
52/59	20	13.544 %	11.413 %	12.10
7	50	12	12.7	34.09
89	2000	987	968.1	4.69
205	5000	2637	2699.8	2.23
6	20	0	1.0	120.89
Integration Time [sec]			0.10	

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	-2.0	V
Extract 2	-185.0	V	Cell Entrance	-50	V	Plate Bias	-70	V
Omega Bias	-85	V	Cell Exit	-70	V			

Cell Parameters

Use Gas	true		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	4.0	mL/min	OctP Bias	-20.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	14.96	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	5.99E+2	kPa			

US EPA Tune Check Sample Report

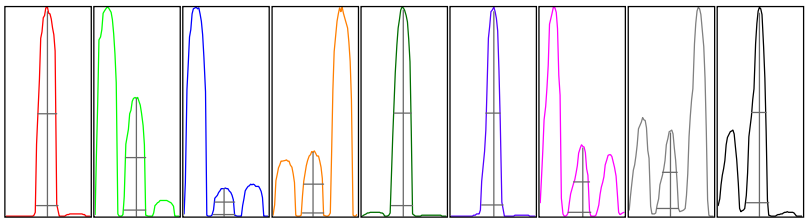
Batch Folder D:\Analytical Runs\I10042015A.b
Report Comment
Instrument Name I10 JP12452145

[NoGas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	38955	0.57	5.00	
24	116148	0.70	5.00	
25	15543	0.46	5.00	
26	17843	1.11	5.00	
59	121722	0.31	5.00	
115	177741	0.47	5.00	
206	67089	0.73	5.00	
207	59450	0.80	5.00	
208	141248	0.69	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	38879	38729	39235	39138	38793
24	117215	116559	116280	115461	115225
25	15626	15604	15473	15536	15473
26	18178	17828	17816	17706	17687
59	121286	121564	122263	121555	121942
115	178829	176828	176965	178198	177885
206	67780	66533	66753	67055	67321
207	60273	59204	59323	59384	59069
208	142385	140451	142008	141271	140124

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
9	6273	9.00	8.9 - 9.1		0.752	0.850	
24	18643	24.00	23.9 - 24.1		0.783	0.850	
25	2474	24.95	24.9 - 25.1		0.788	0.850	
26	2829	25.95	25.9 - 26.1		0.789	0.850	
59	20345	59.00	58.9 - 59.1		0.785	0.850	
115	33723	115.05	114.9 - 115.1		0.751	0.850	
206	12822	206.05	205.9 - 206.1		0.763	0.850	
207	11267	207.00	206.9 - 207.1		0.766	0.850	
208	27545	208.00	207.9 - 208.1		0.785	0.850	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 235 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

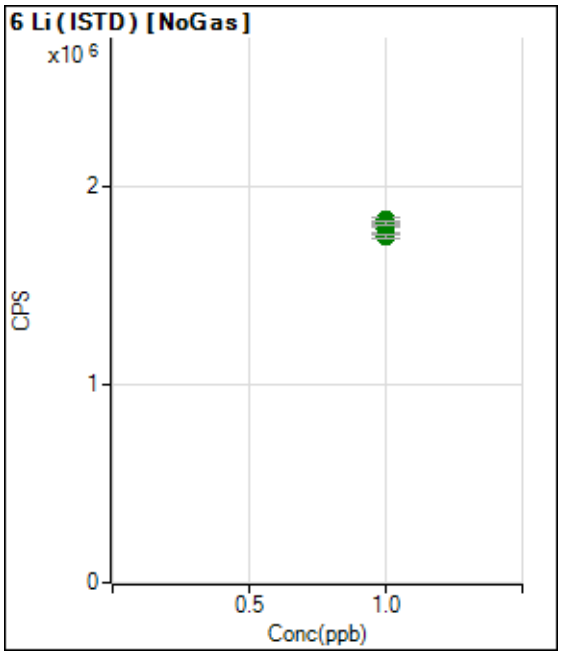
US EPA Tune Check Sample Report

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
ParameterName	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

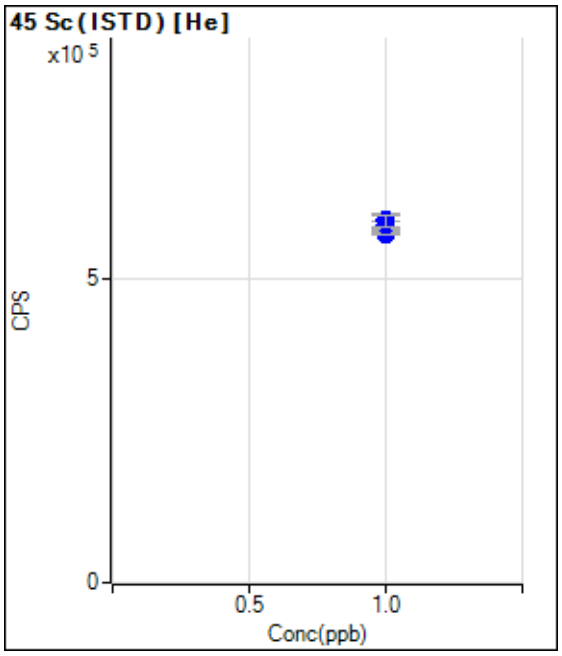
Calibration for 017_CCV.d

Batch Folder: D:\Analytical Runs\I10042015B.b\
Analysis File: I10042015B.batch.bin
DA Date-Time: 4/20/2015 11:54:19 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

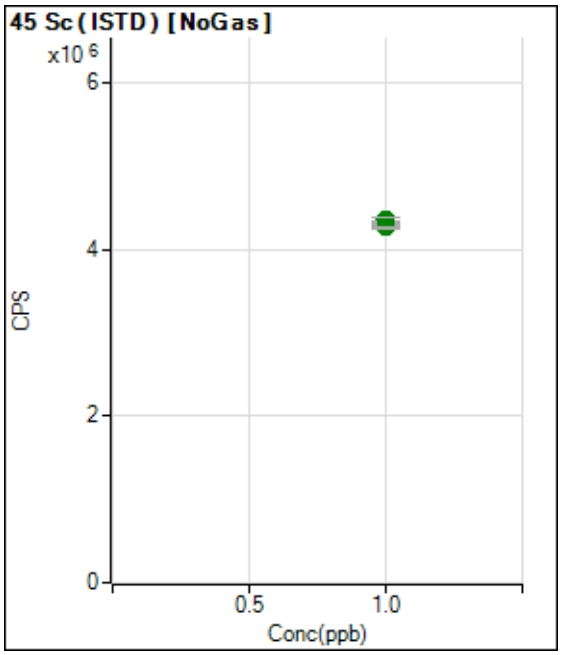
Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	ICIS	4/20/2015 10:25:17 AM
2	003CALS.d	STD1-1906323	4/20/2015 10:29:07 AM
3	004CALS.d	STD2-1904110	4/20/2015 10:32:55 AM
4	005CALS.d	STD3-1906333	4/20/2015 10:36:43 AM
5	006CALS.d	STD4-1906536	4/20/2015 10:40:29 AM



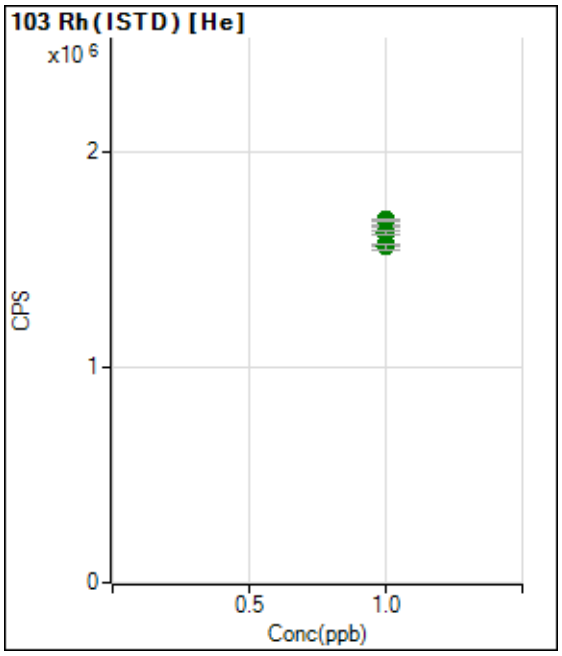
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1803796.89		A	1.2
2	☐	1.000		1829983.13		A	1.2
3	☐	1.000		1782193.55		A	1.6
4	☐	1.000		1742537.93		A	1.0
5	☐	1.000		1809459.47		A	1.0



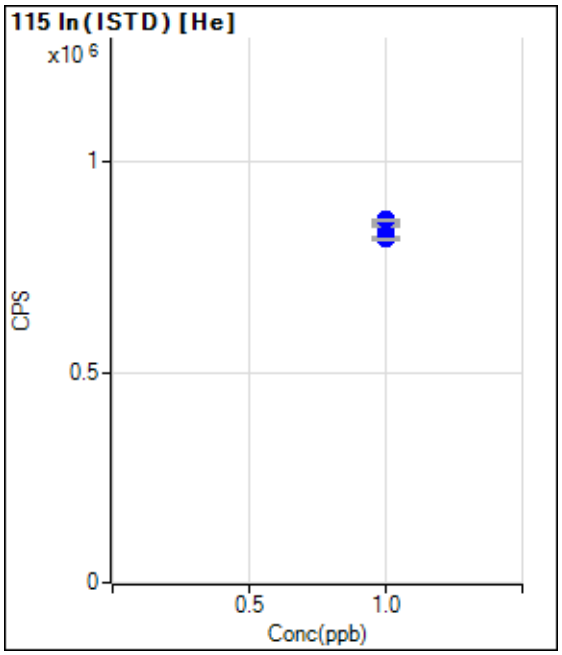
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		574766.30		P	0.8
2	☐	1.000		588684.67		P	2.5
3	☐	1.000		597812.59		P	4.0
4	☐	1.000		589733.43		P	2.3
5	☐	1.000		595610.05		P	3.0



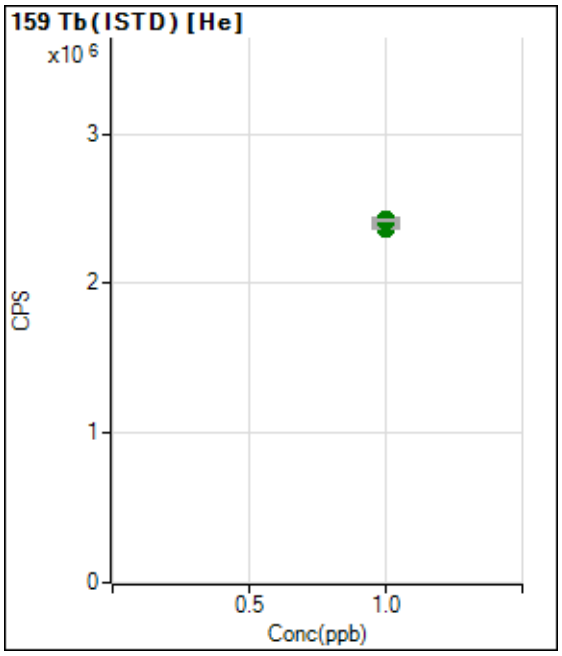
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4296856.77		A	0.3
2	☐	1.000		4298089.13		A	0.5
3	☐	1.000		4333353.30		A	0.1
4	☐	1.000		4352110.38		A	1.8
5	☐	1.000		4264431.08		A	0.5



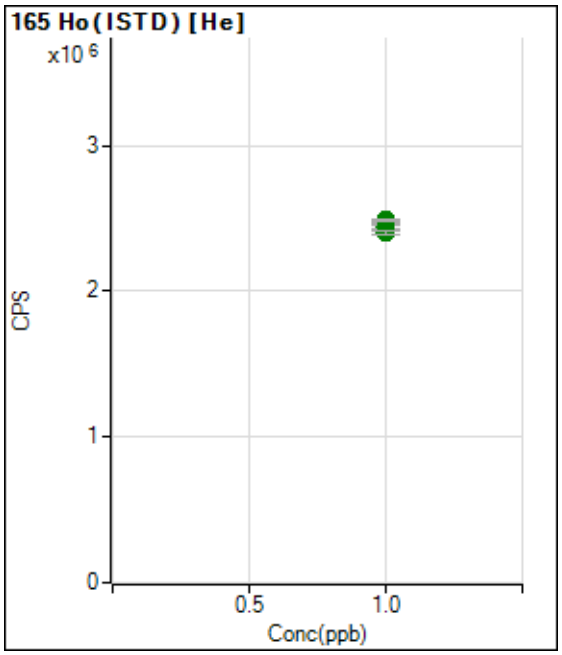
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1652712.47		A	1.0
2	☐	1.000		1620297.75		A	1.3
3	☐	1.000		1565924.42		A	0.5
4	☐	1.000		1556491.19		A	2.0
5	☐	1.000		1681733.06		A	0.4



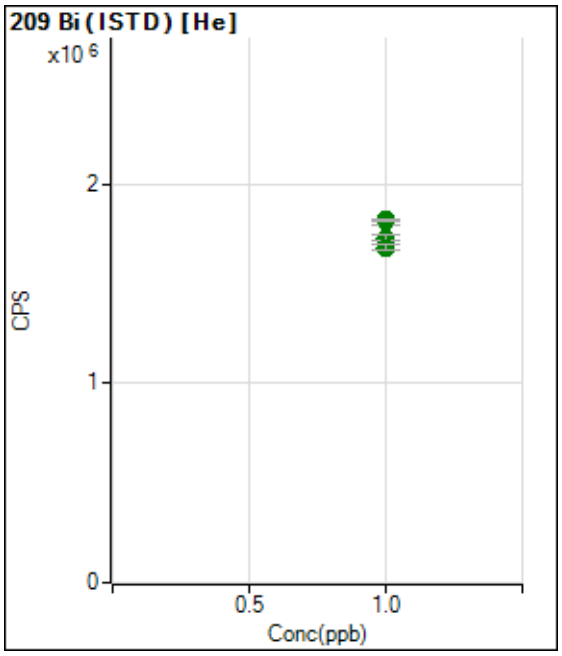
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		852389.20		P	0.8
2	☐	1.000		847101.31		P	0.4
3	☐	1.000		820615.51		P	0.6
4	☐	1.000		815922.78		P	0.5
5	☐	1.000		861709.70		P	0.7



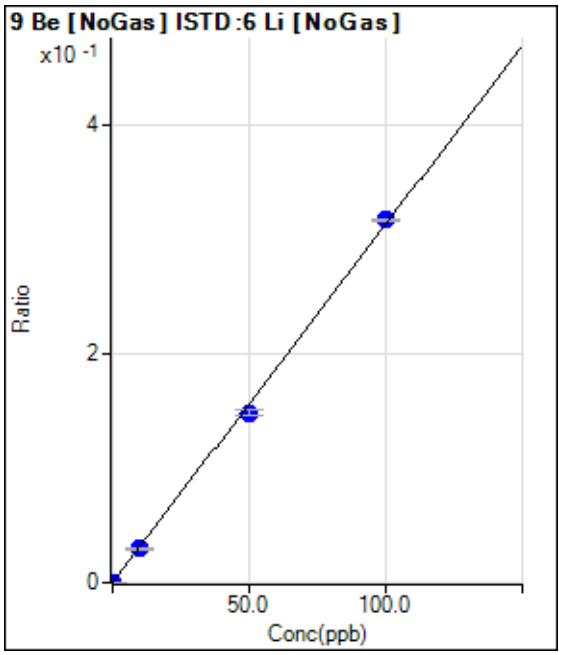
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2425956.29		A	1.3
2	☐	1.000		2406371.22		A	1.5
3	☐	1.000		2383879.77		A	1.2
4	☐	1.000		2370841.99		A	0.8
5	☐	1.000		2422876.64		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2452679.83		A	1.7
2	☐	1.000		2463165.67		A	0.9
3	☐	1.000		2444894.69		A	1.4
4	☐	1.000		2398504.97		A	0.8
5	☐	1.000		2489280.81		A	0.3



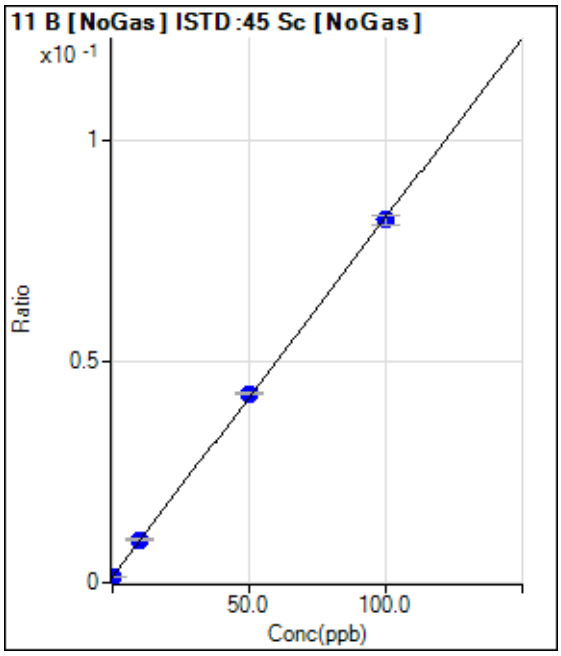
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1810472.84		A	1.3
2	☐	1.000		1809267.22		A	1.7
3	☐	1.000		1729560.25		A	2.0
4	☐	1.000		1682428.75		A	1.6
5	☐	1.000		1820015.13		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.70	0.0000	P	173.2
2	☐	10.000	9.493	54361.39	0.0297	P	5.6
3	☐	50.000	47.431	264560.43	0.1485	P	3.0
4	☐	100.000	101.335	552758.80	0.3172	P	0.5
5	☐			103.71	0.0001	P	17.4

y = 0.0031 * x + 2.0263E-006
R = 0.9994
DL = 0.003363
BEC = 0.0006473

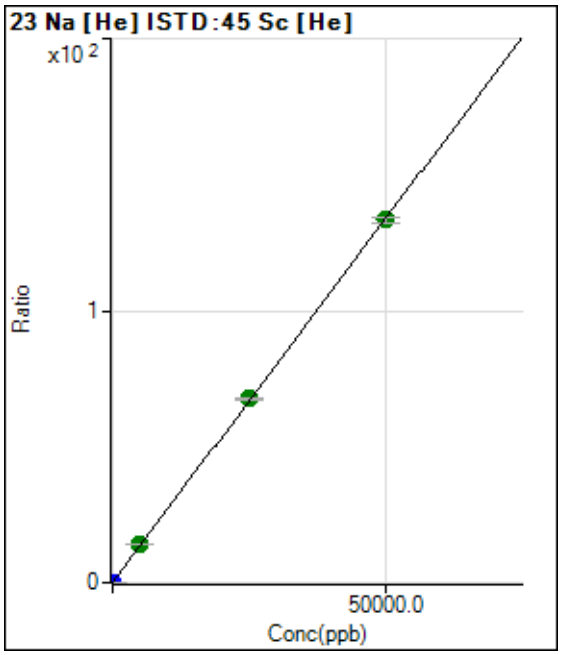
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5845.61	0.0014	P	7.2
2	☐	10.000	10.375	42104.10	0.0098	P	2.8
3	☐	50.000	51.094	185912.75	0.0429	P	1.4
4	☐			8795.10	0.0020	P	1.7
5	☐	100.000	99.415	350463.83	0.0822	P	2.7

y = 8.1306E-004 * x + 0.0014
R = 0.9999
DL = 0.359
BEC = 1.673

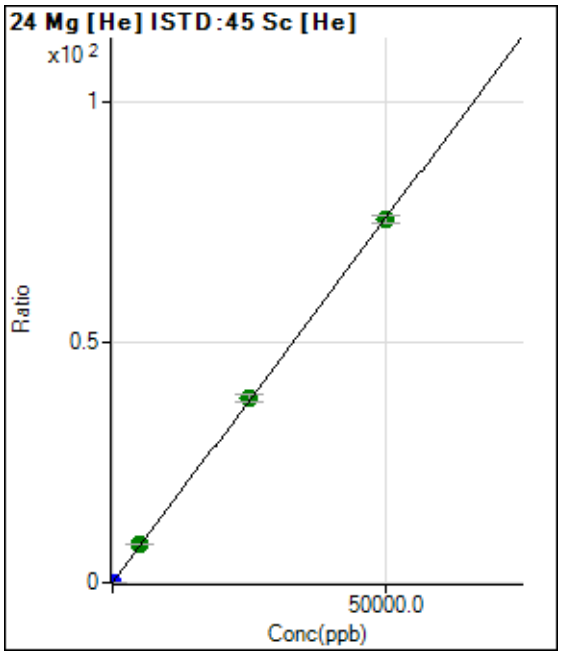
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33509.39	0.0583	P	5.1
2	☐	5000.000	5254.690	8305773.52	14.1169	A	3.4
3	☐	25000.000	25229.736	40367945.62	67.5589	A	1.8
4	☐	50000.000	49859.663	78687391.32	133.4548	A	1.4
5	☐			51450.97	0.0863	P	6.1

y = 0.0027 * x + 0.0583
R = 1.0000
DL = 3.336
BEC = 21.79

Weight: <None>
Min Conc: <None>

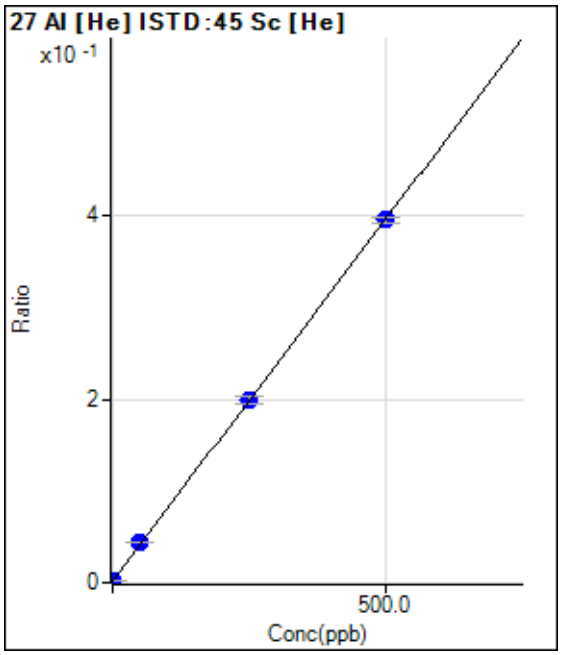


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	926.00	0.0016	P	2.4
2	☐	5000.000	5290.034	4722367.29	8.0264	A	3.5
3	☐	25000.000	25330.341	22951103.26	38.4268	A	3.4
4	☐	50000.000	49805.826	44543324.15	75.5552	A	2.1
5	☐			6953.57	0.0116	P	19.0

y = 0.0015 * x + 0.0016
R = 1.0000
DL = 0.07731
BEC = 1.062

Weight: <None>
Min Conc: <None>

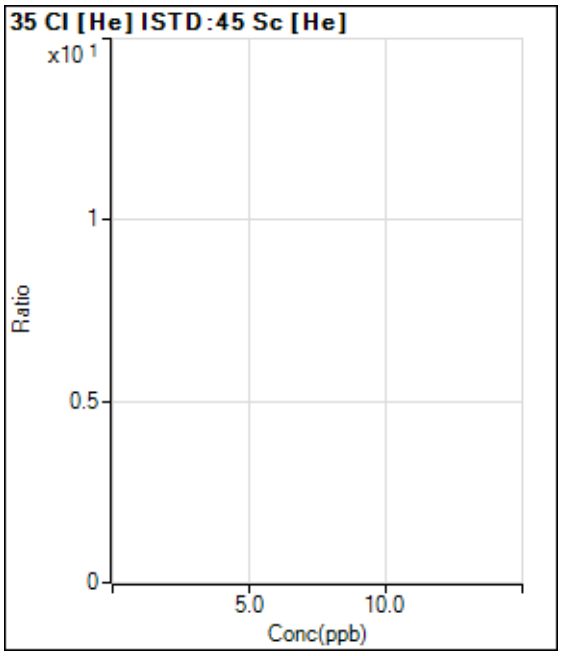
Calibration for 017_CCV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	748.92	0.0013	P	3.3
2	☐	50.000	54.305	25975.05	0.0441	P	2.8
3	☐	250.000	250.431	118769.83	0.1989	P	3.7
4	☐	500.000	499.354	233035.80	0.3952	P	1.6
5	☐			2339.07	0.0039	P	3.5

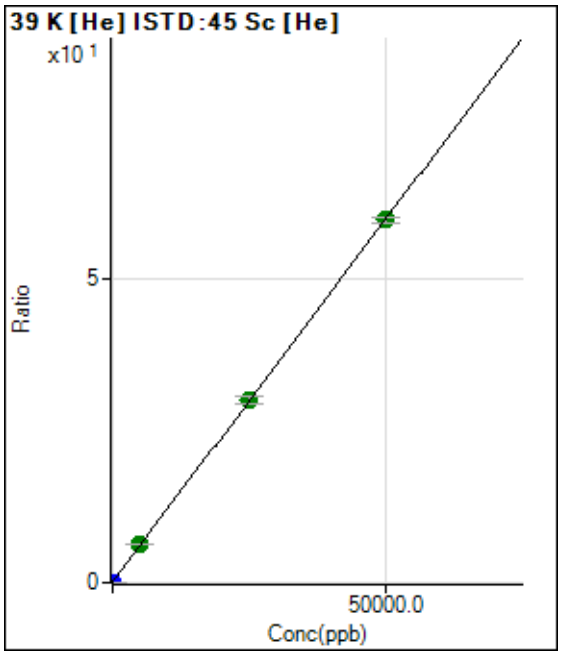
y = 7.8891E-004 * x + 0.0013
R = 1.0000
DL = 0.1646
BEC = 1.651

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13317558.27	23.1714	A	1.2
2	☐			13306259.19	22.6098	A	1.9
3	☐			13738800.84	23.0067	A	4.1
4	☐			13733662.88	23.2947	A	2.0
5	☐			13788611.95	23.1636	A	3.0

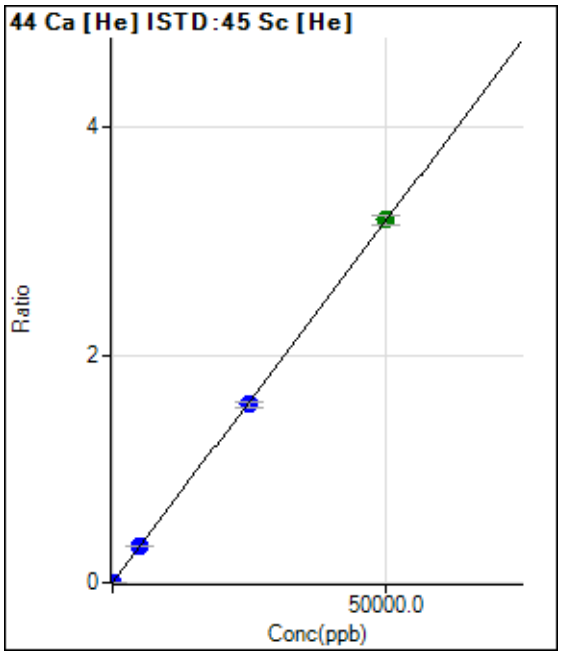
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64779.15	0.1127	P	0.1
2	☐	5000.000	5227.338	3730768.02	6.3381	A	1.3
3	☐	25000.000	25071.484	17899162.71	29.9709	A	3.7
4	☐	50000.000	49941.524	35133648.61	59.5891	A	1.6
5	☐			74501.09	0.1251	P	1.6

y = 0.0012 * x + 0.1127
R = 1.0000
DL = 0.2061
BEC = 94.64

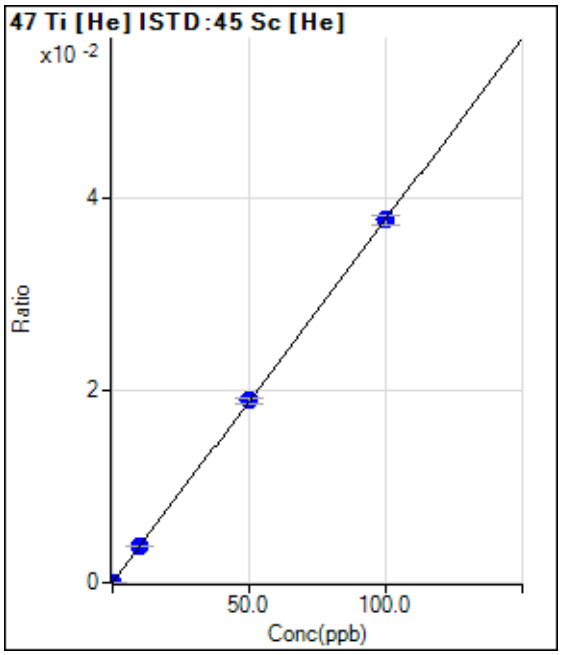
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	574.55	0.0010	P	5.4
2	☐	5000.000	5038.607	188854.50	0.3209	P	1.4
3	☐	25000.000	24635.115	934803.66	1.5650	P	3.0
4	☐	50000.000	50178.582	1878505.18	3.1866	A	2.7
5	☐			1412.29	0.0024	P	5.0

y = 6.3485E-005 * x + 9.9986E-004
R = 1.0000
DL = 2.534
BEC = 15.75

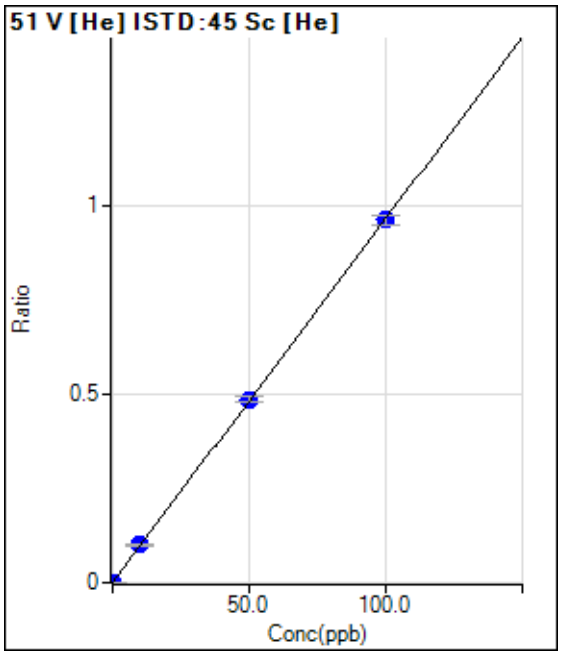
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	10.000	9.998	2224.61	0.0038	P	3.6
3	☐	50.000	50.088	11311.41	0.0189	P	3.1
4	☐			23.34	0.0000	P	47.0
5	☐	100.000	99.956	22495.20	0.0378	P	2.5

y = 3.7802E-004 * x + 1.9224E-006
R = 1.0000
DL = 0.02643
BEC = 0.005086

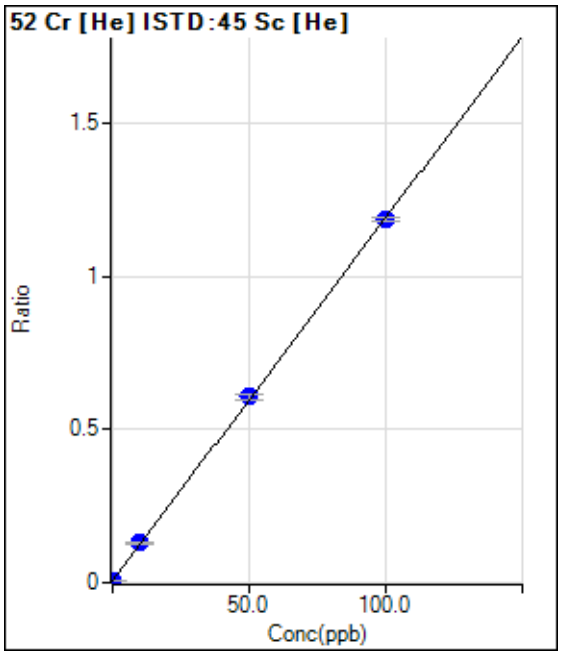
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	264.79	0.0005	P	182.4
2	☐	10.000	10.390	59298.95	0.1008	P	4.7
3	☐	50.000	50.381	290945.49	0.4870	P	2.8
4	☐	100.000	99.770	568327.17	0.9641	P	2.6
5	☐			584.23	0.0010	P	100.3

y = 0.0097 * x + 4.5623E-004
R = 1.0000
DL = 0.2585
BEC = 0.04724

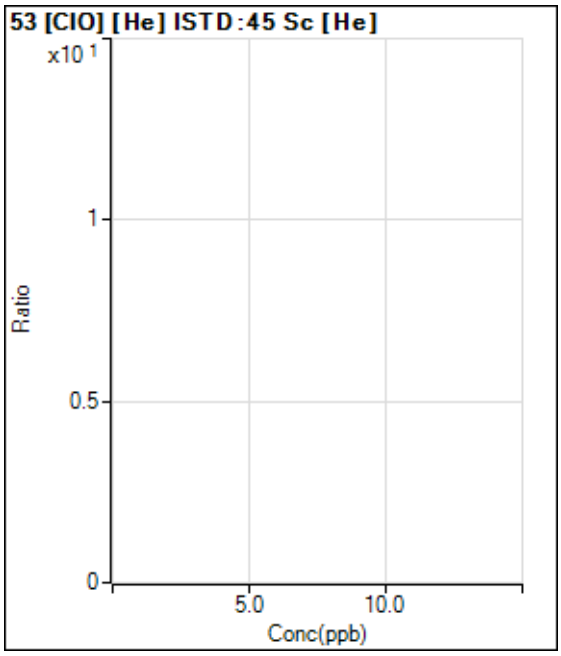
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3008.07	0.0052	P	4.9
2	☐	10.000	10.531	76509.00	0.1300	P	2.1
3	☐	50.000	50.821	362777.56	0.6074	P	3.3
4	☐	100.000	99.537	698462.14	1.1846	P	1.2
5	☐			3163.65	0.0053	P	1.4

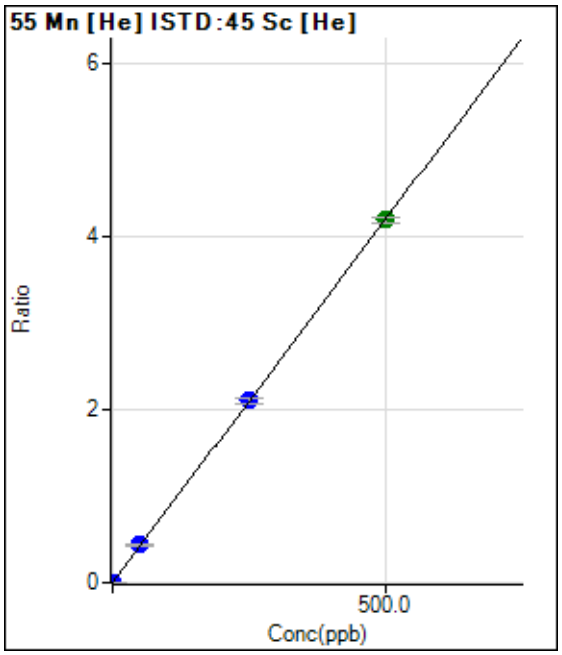
y = 0.0118 * x + 0.0052
R = 0.9999
DL = 0.06547
BEC = 0.4418

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			929.72	0.0016	P	20.9
2	☐			9451.07	0.0160	P	3.4
3	☐			44868.20	0.0751	P	4.4
4	☐			84923.37	0.1440	P	1.3
5	☐			640.78	0.0011	P	25.2

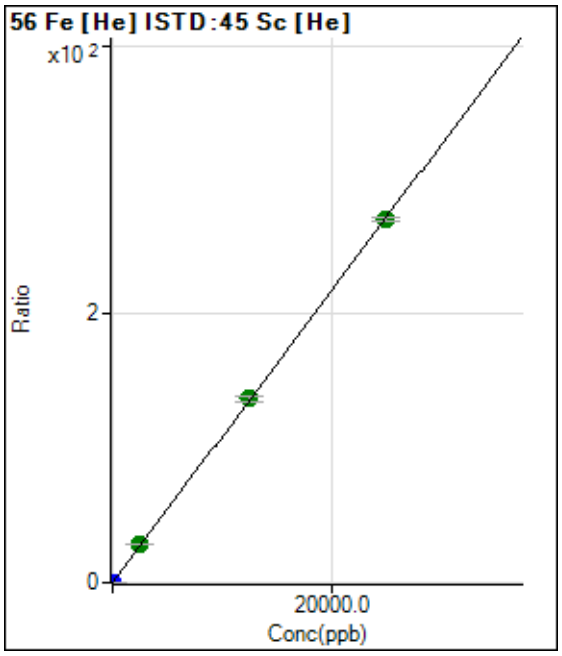
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	167.78	0.0003	P	11.3
2	☐	50.000	51.842	255892.60	0.4348	P	2.3
3	☐	250.000	251.149	1257657.31	2.1055	P	3.1
4	☐	500.000	499.241	2467533.30	4.1851	A	1.4
5	☐			780.03	0.0013	P	20.3

y = 0.0084 * x + 2.9200E-004
R = 1.0000
DL = 0.01179
BEC = 0.03483

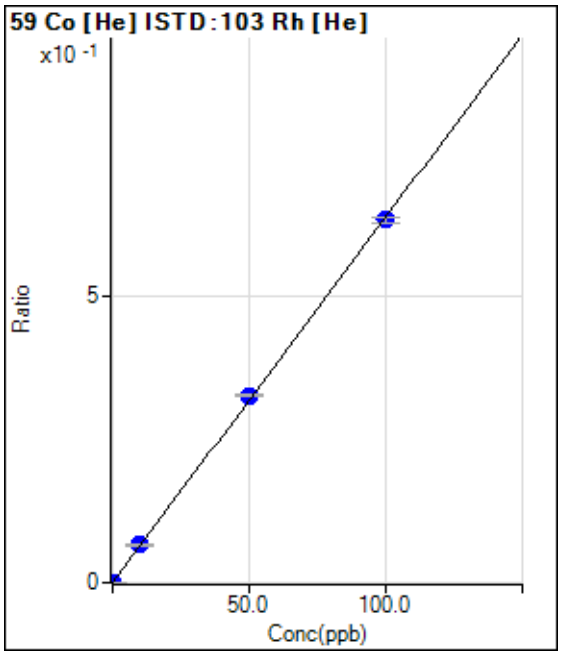
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6091.12	0.0106	P	3.4
2	☐	2500.000	2615.834	16713658.78	28.3945	A	0.6
3	☐	12500.000	12662.444	82076887.85	137.4083	A	3.3
4	☐	25000.000	24907.195	159363620.33	270.2737	A	1.1
5	☐			156745.49	0.2616	P	29.5

y = 0.0109 * x + 0.0106
R = 1.0000
DL = 0.1004
BEC = 0.9765

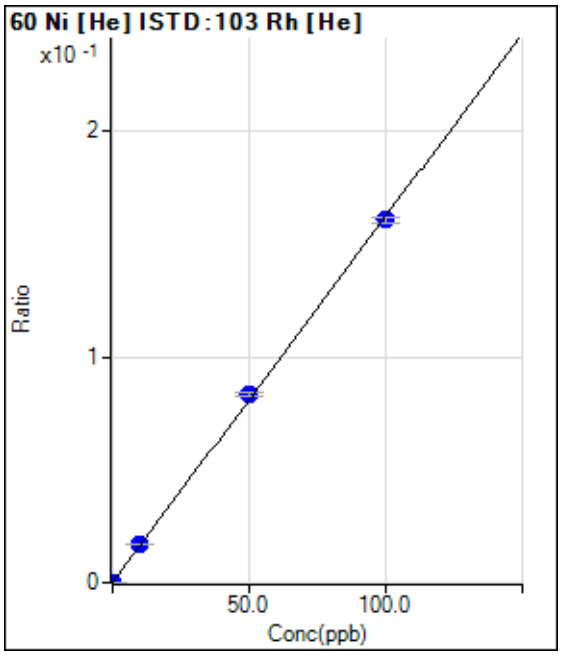
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.44	0.0000	P	37.5
2	☐	10.000	10.268	106199.60	0.0656	P	1.4
3	☐	50.000	51.277	512381.01	0.3272	P	1.4
4	☐	100.000	99.335	986451.91	0.6339	P	1.3
5	☐			173.34	0.0001	P	30.4

y = 0.0064 * x + 3.2979E-005
R = 0.9999
DL = 0.00581
BEC = 0.005169

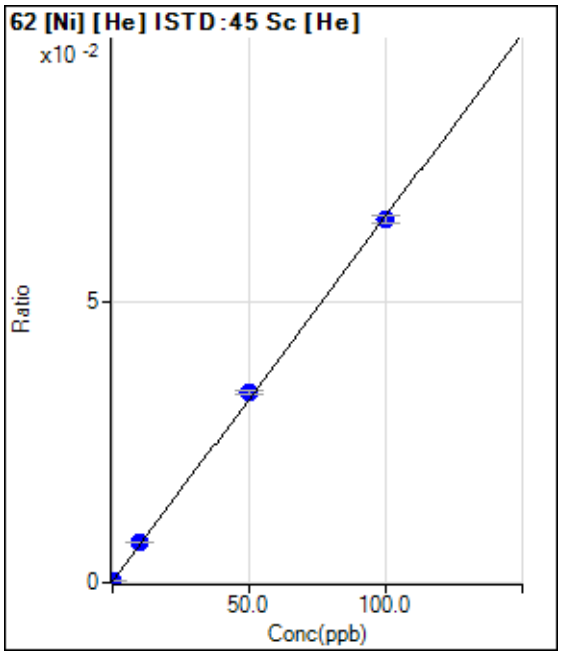
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	95.56	0.0001	P	57.0
2	☐	10.000	10.448	27565.71	0.0170	P	0.8
3	☐	50.000	51.677	131388.63	0.0839	P	1.9
4	☐	100.000	99.117	250363.12	0.1609	P	1.7
5	☐			251.12	0.0001	P	9.6

y = 0.0016 * x + 5.7991E-005
R = 0.9998
DL = 0.06111
BEC = 0.03574

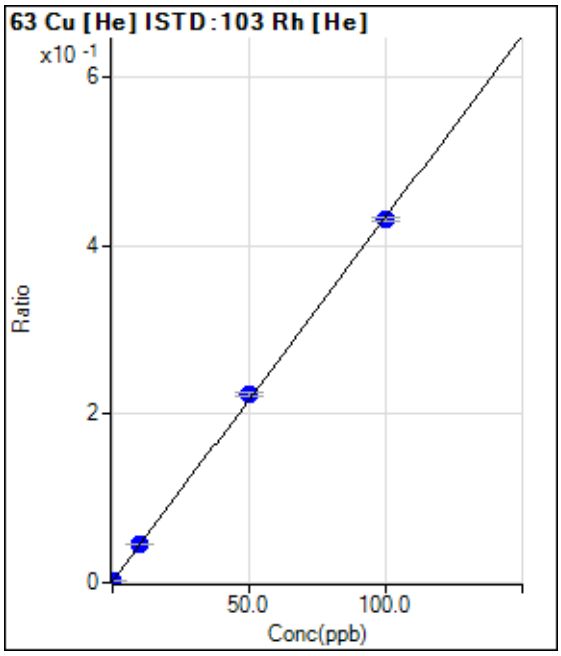
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0002	P	21.9
2	☐	10.000	10.708	4211.66	0.0072	P	2.3
3	☐	50.000	51.776	20229.39	0.0339	P	2.6
4	☐	100.000	99.041	38083.66	0.0646	P	2.0
5	☐			151.12	0.0003	P	17.5

y = 6.5028E-004 * x + 1.9313E-004
R = 0.9997
DL = 0.1952
BEC = 0.297

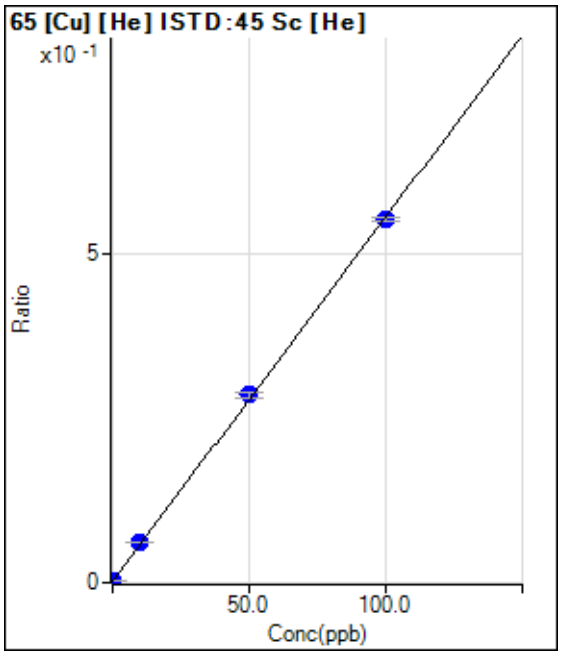
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2489.10	0.0015	P	4.6
2	☐	10.000	10.394	75327.95	0.0465	P	1.1
3	☐	50.000	51.334	350202.36	0.2237	P	2.0
4	☐	100.000	99.294	671068.15	0.4312	P	1.0
5	☐			3062.53	0.0018	P	2.4

y = 0.0043 * x + 0.0015
R = 0.9998
DL = 0.04755
BEC = 0.348

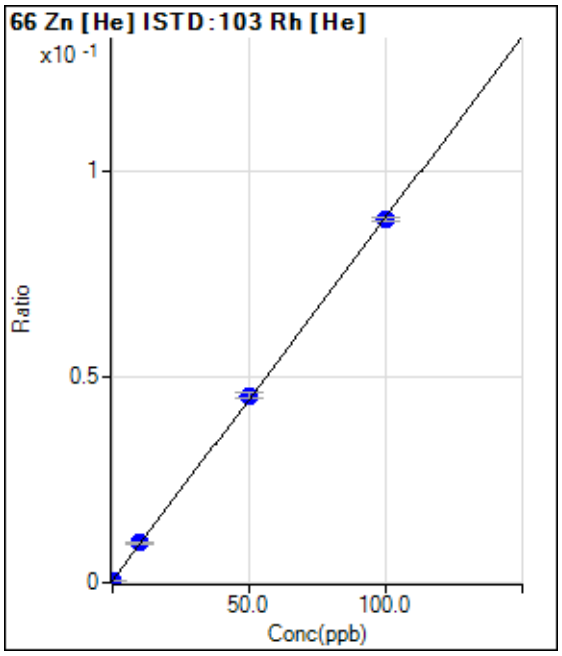
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1071.16	0.0019	P	7.5
2	☐	10.000	10.830	36473.84	0.0620	P	3.1
3	☐	50.000	51.213	170970.41	0.2862	P	2.5
4	☐	100.000	99.310	326181.73	0.5532	P	1.2
5	☐			1393.41	0.0023	P	1.4

y = 0.0056 * x + 0.0019
R = 0.9999
DL = 0.07546
BEC = 0.3357

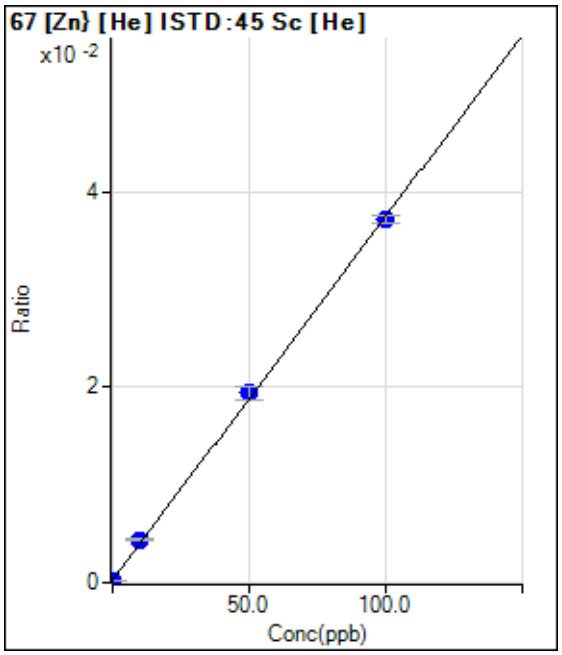
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	847.81	0.0005	P	10.1
2	☐	10.000	10.374	15620.29	0.0096	P	2.6
3	☐	50.000	51.083	71190.50	0.0455	P	2.6
4	☐	100.000	99.421	136960.26	0.0880	P	1.0
5	☐			2756.92	0.0016	P	1.0

y = 8.8000E-004 * x + 5.1281E-004
R = 0.9999
DL = 0.1768
BEC = 0.5827

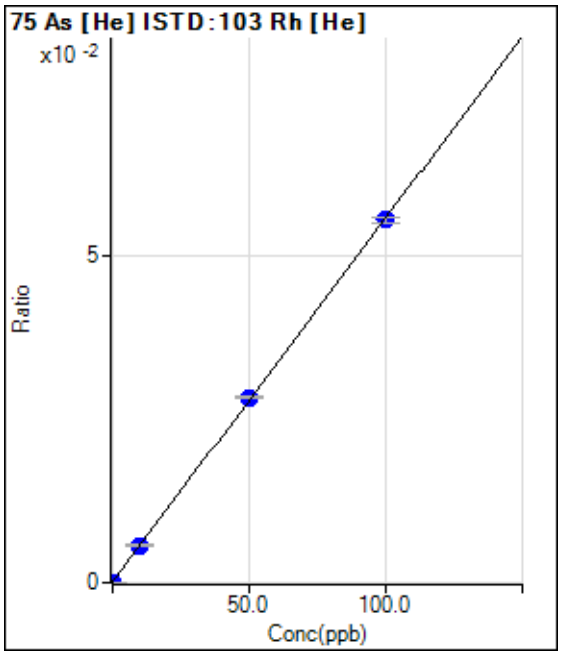
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0002	P	4.3
2	☐	10.000	11.180	2592.45	0.0044	P	4.0
3	☐	50.000	51.458	11578.33	0.0194	P	6.3
4	☐	100.000	99.153	21907.98	0.0372	P	2.1
5	☐			387.79	0.0007	P	18.5

y = 3.7232E-004 * x + 2.4170E-004
R = 0.9998
DL = 0.08392
BEC = 0.6492

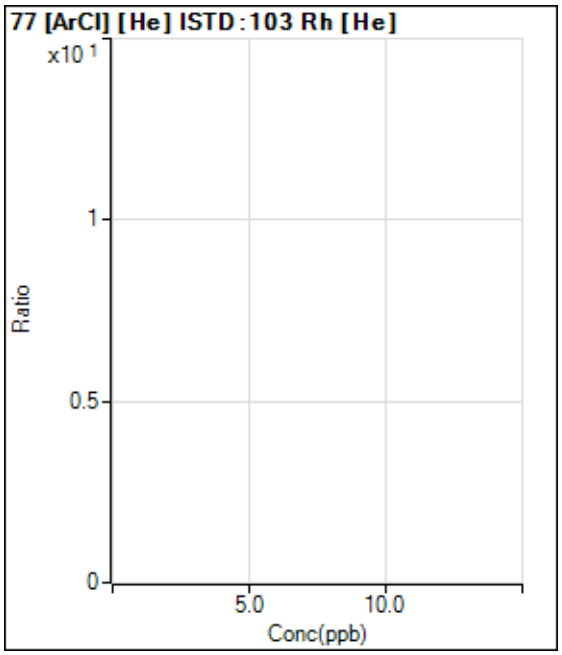
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.89	0.0001	P	10.6
2	☐	10.000	10.079	9289.18	0.0057	P	1.4
3	☐	50.000	50.822	44515.56	0.0284	P	1.2
4	☐	100.000	99.581	86503.94	0.0556	P	1.8
5	☐			179.23	0.0001	P	8.3

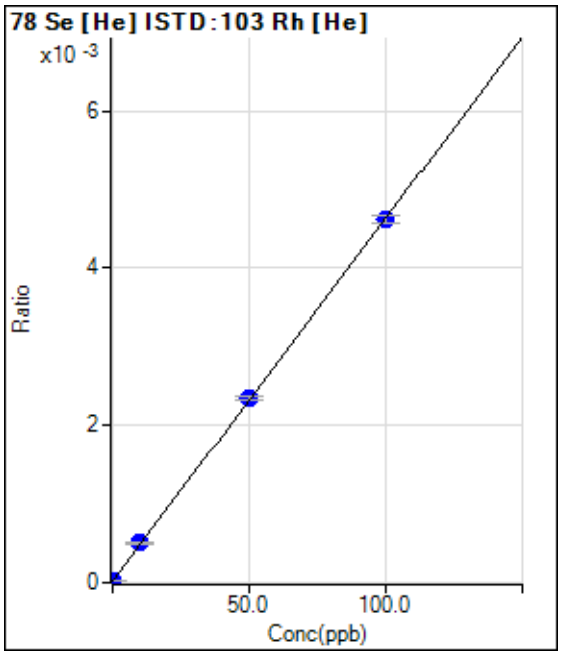
y = 5.5703E-004 * x + 1.1921E-004
R = 0.9999
DL = 0.06779
BEC = 0.214

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			29.63	0.0000	P	22.4
2	☐			262.98	0.0002	P	30.4
3	☐			1203.82	0.0008	P	3.2
4	☐			2144.67	0.0014	P	5.0
5	☐			44.45	0.0000	P	65.8

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29.69	0.0000	P	16.4
2	☐	10.000	10.563	818.10	0.0005	P	4.6
3	☐	50.000	50.587	3680.98	0.0024	P	1.4
4	☐	100.000	99.650	7178.73	0.0046	P	2.1
5	☐			33.83	0.0000	P	13.0

y = 4.6114E-005 * x + 1.7980E-005

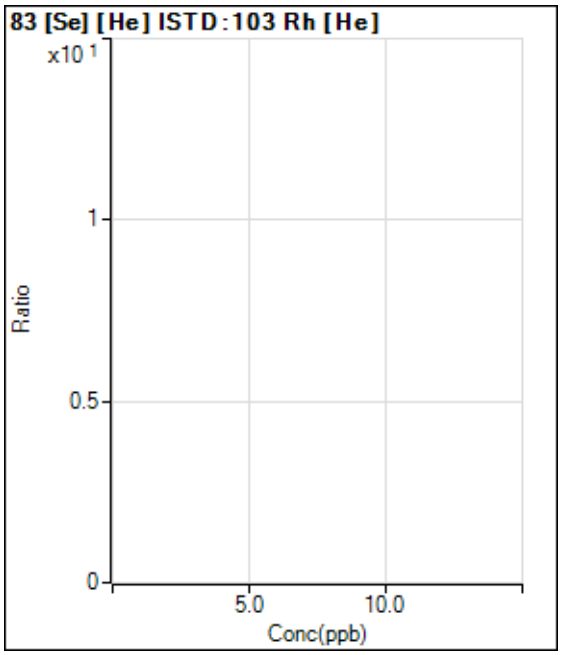
R = 1.0000

DL = 0.1916

BEC = 0.3899

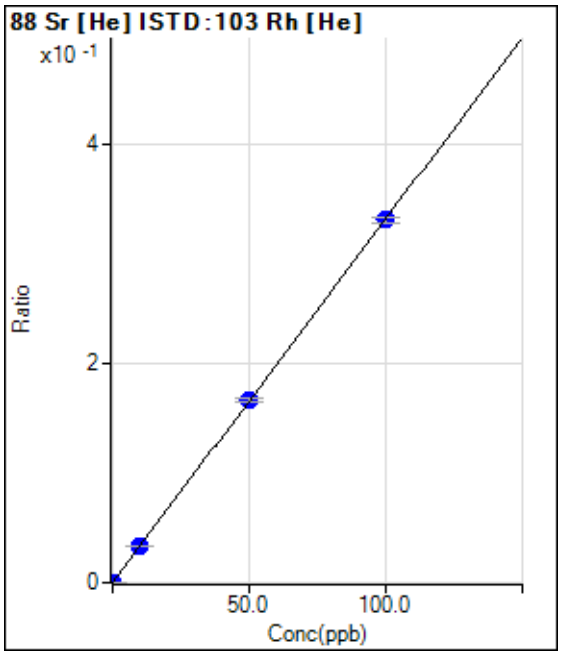
Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			208.08	0.0001	P	3.0
2	☐			199.66	0.0001	P	6.8
3	☐			198.32	0.0001	P	2.3
4	☐			212.12	0.0001	P	9.7
5	☐			208.42	0.0001	P	16.6

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.23	0.0001	P	22.0
2	☐	10.000	10.030	54009.08	0.0333	P	0.9
3	☐	50.000	50.340	261429.42	0.1670	P	1.6
4	☐	100.000	99.827	515085.29	0.3310	P	1.7
5	☐			148.89	0.0001	P	16.0

y = 0.0033 * x + 8.6169E-005

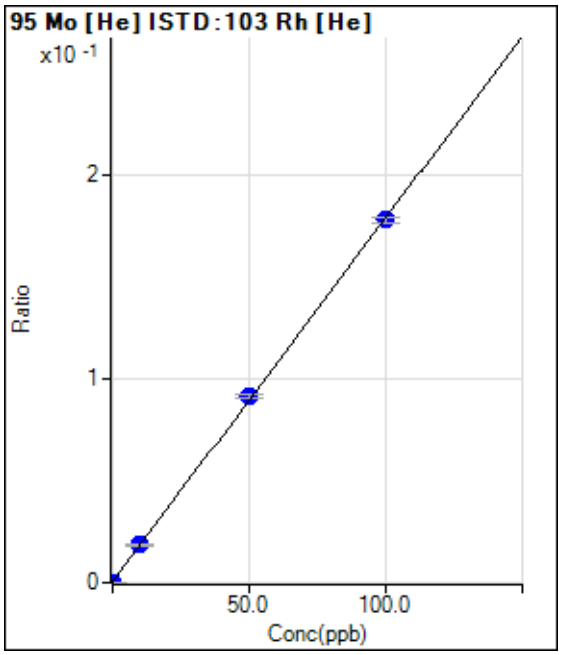
R = 1.0000

DL = 0.01713

BEC = 0.02599

Weight: <None>

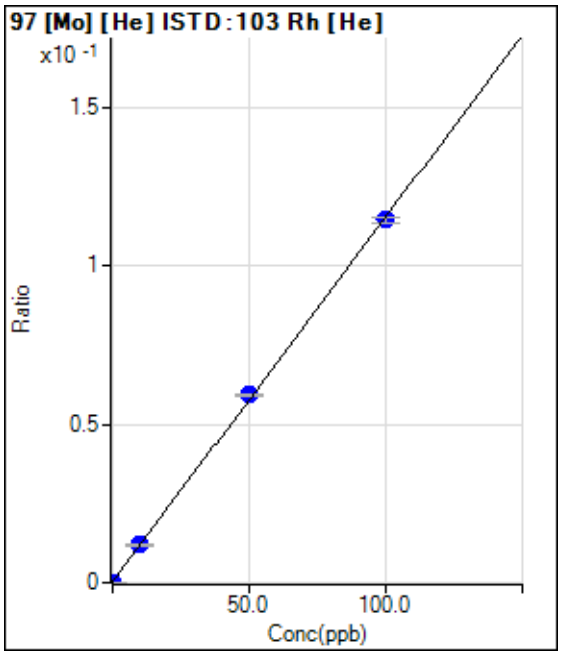
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	695.58	0.0004	P	7.7
2	☐	10.000	10.168	30097.13	0.0186	P	3.6
3	☐	50.000	50.923	143084.08	0.0914	P	2.2
4	☐			2521.33	0.0016	P	15.9
5	☐	100.000	99.522	299628.89	0.1782	P	1.6

y = 0.0018 * x + 4.2079E-004
R = 0.9999
DL = 0.05472
BEC = 0.2356

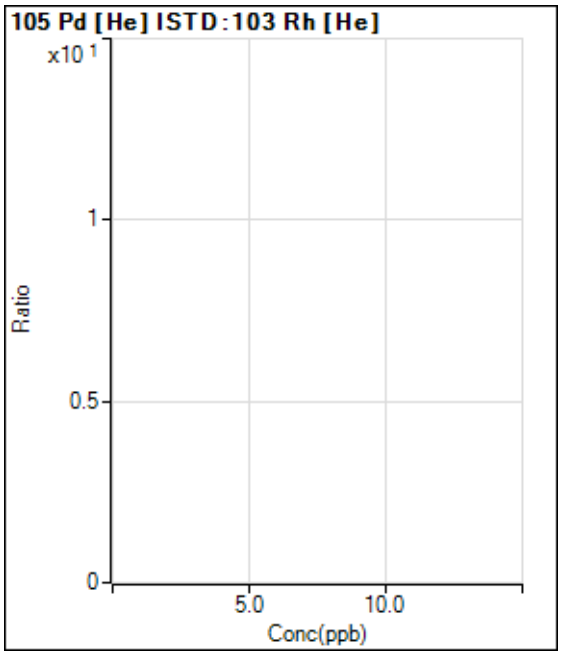
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	448.17	0.0003	P	13.0
2	☐	10.000	10.156	19359.72	0.0119	P	2.2
3	☐	50.000	51.346	92874.07	0.0593	P	1.5
4	☐			1622.38	0.0010	P	10.6
5	☐	100.000	99.312	192497.01	0.1145	P	1.7

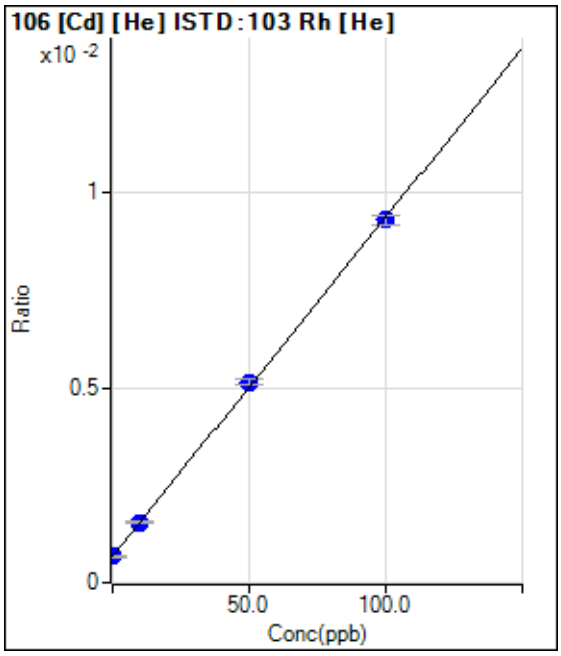
y = 0.0011 * x + 2.7132E-004
R = 0.9998
DL = 0.09188
BEC = 0.236

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1074.17	0.0006	P	10.0
2	☐			1129.73	0.0007	P	8.1
3	☐			1207.51	0.0008	P	1.9
4	☐			1211.22	0.0008	P	9.5
5	☐			1148.24	0.0007	P	17.2

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1110.48	0.0007	P	5.6
2	☐	10.000	9.930	2485.04	0.0015	P	2.7
3	☐	50.000	51.420	8043.97	0.0051	P	2.8
4	☐	100.000	99.297	14462.92	0.0093	P	2.8
5	☐			1160.99	0.0007	P	7.5

y = 8.6849E-005 * x + 6.7167E-004

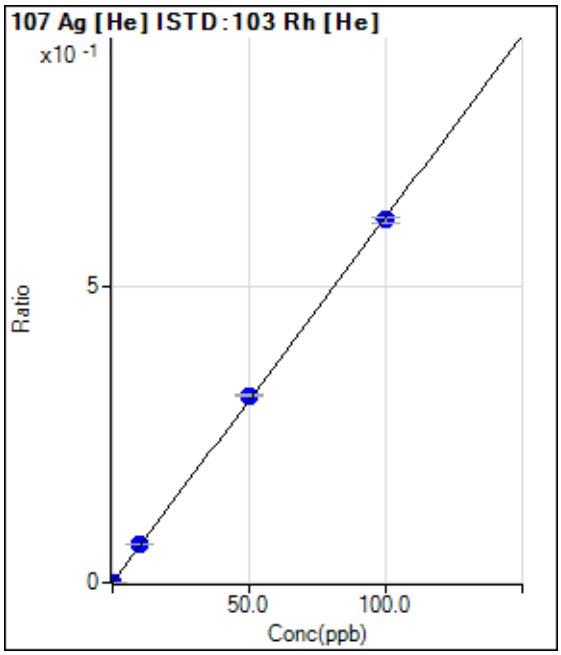
R = 0.9998

DL = 1.297

BEC = 7.734

Weight: <None>

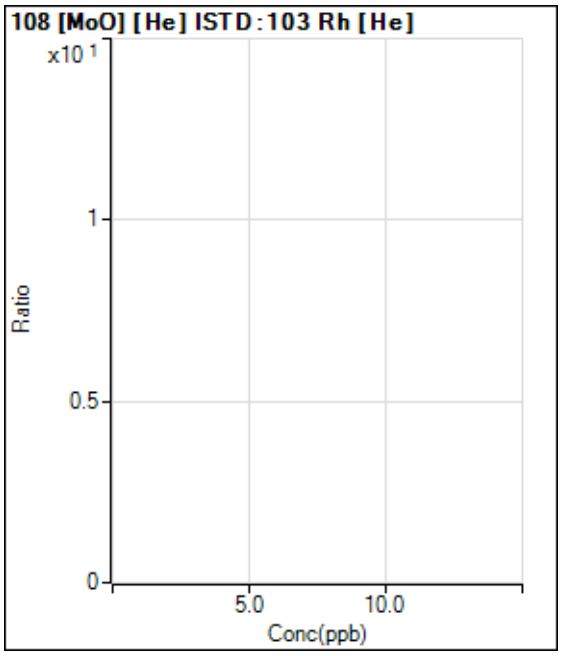
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	36.6
2	☐	10.000	10.371	103935.16	0.0642	P	1.9
3	☐	50.000	51.220	496033.94	0.3168	P	1.1
4	☐	100.000	99.353	956216.56	0.6145	P	1.4
5	☐			237.79	0.0001	P	22.5

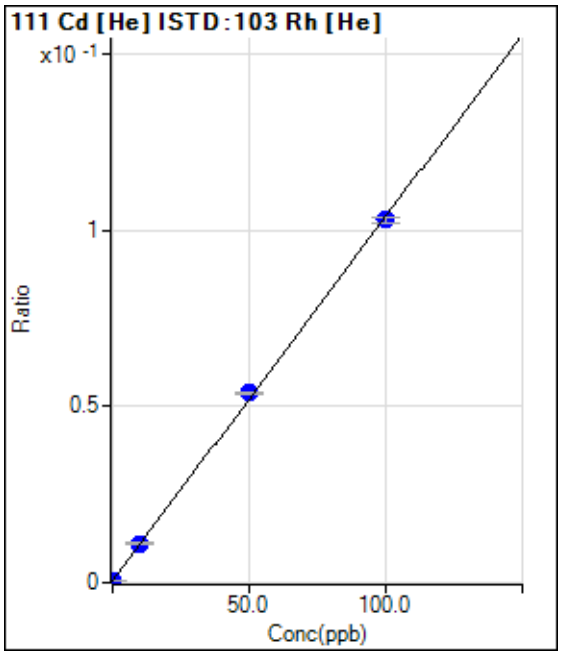
y = 0.0062 * x + 1.9521E-005
R = 0.9999
DL = 0.003468
BEC = 0.003157

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.41	0.0000	P	173.2
2	☐			1185.28	0.0007	P	1.7
3	☐			5364.06	0.0034	P	8.5
4	☐			10273.98	0.0066	P	5.8
5	☐			144.45	0.0001	P	34.9

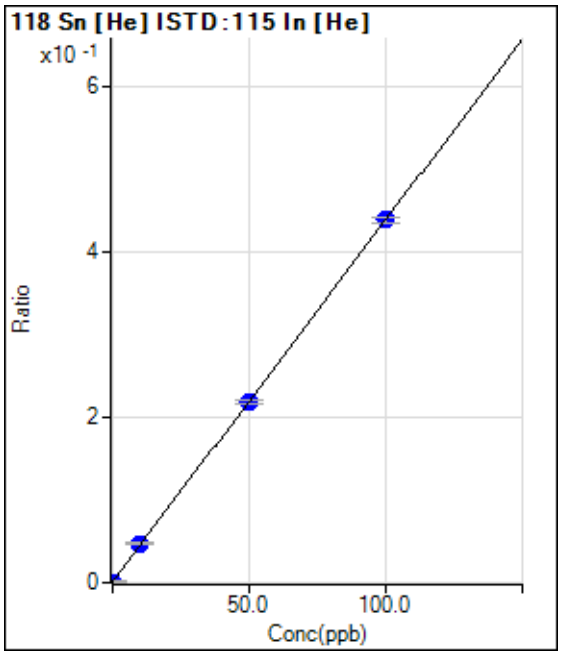
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	850.22	0.0005	P	5.0
2	☐	10.000	10.297	18064.48	0.0112	P	1.5
3	☐	50.000	51.615	84288.22	0.0538	P	1.3
4	☐	100.000	99.163	160190.11	0.1029	P	1.8
5	☐			873.75	0.0005	P	9.7

y = 0.0010 * x + 5.1428E-004
R = 0.9998
DL = 0.07421
BEC = 0.4979

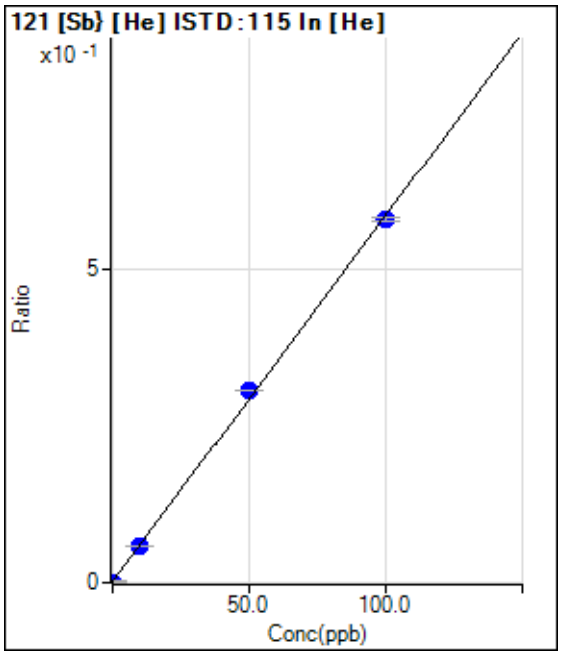
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	863.67	0.0010	P	77.2
2	☐	10.000	10.641	40323.00	0.0476	P	0.8
3	☐	50.000	49.690	179339.46	0.2185	P	2.1
4	☐			1874.27	0.0023	P	11.3
5	☐	100.000	100.091	378485.42	0.4392	P	1.7

y = 0.0044 * x + 0.0010
R = 1.0000
DL = 0.5379
BEC = 0.2323

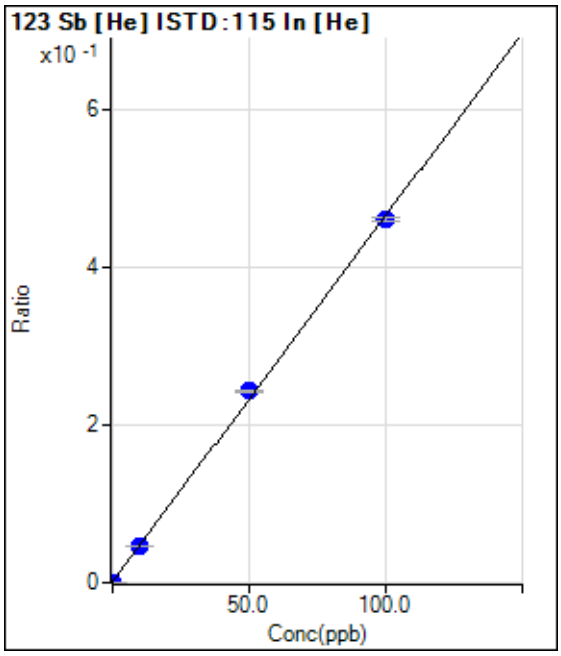
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1270.07	0.0015	P	10.9
2	☐	10.000	9.844	50036.10	0.0591	P	1.9
3	☐	50.000	52.256	252037.16	0.3071	P	0.5
4	☐			2603.57	0.0032	P	4.7
5	☐	100.000	98.888	499688.10	0.5799	P	1.1

y = 0.0058 * x + 0.0015
R = 0.9995
DL = 0.08319
BEC = 0.2546

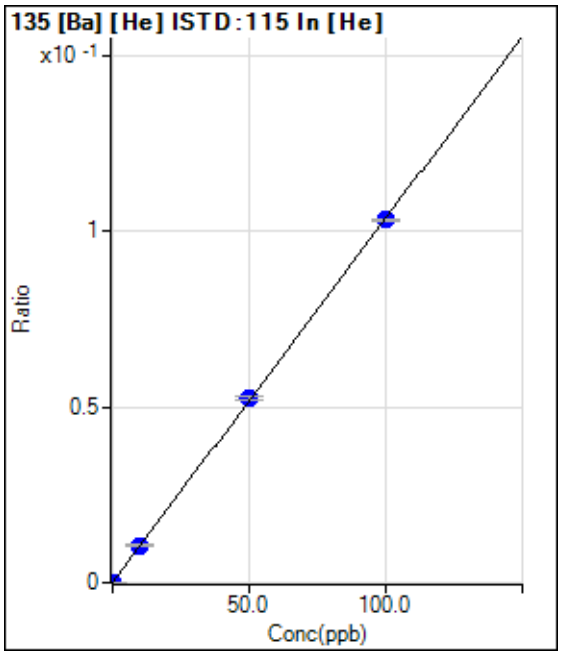
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	897.81	0.0011	P	2.6
2	☐	10.000	9.890	39777.24	0.0470	P	0.1
3	☐	50.000	52.138	199442.64	0.2430	P	0.4
4	☐			2011.26	0.0025	P	5.4
5	☐	100.000	98.942	396610.21	0.4603	P	1.0

y = 0.0046 * x + 0.0011
R = 0.9996
DL = 0.01776
BEC = 0.2269

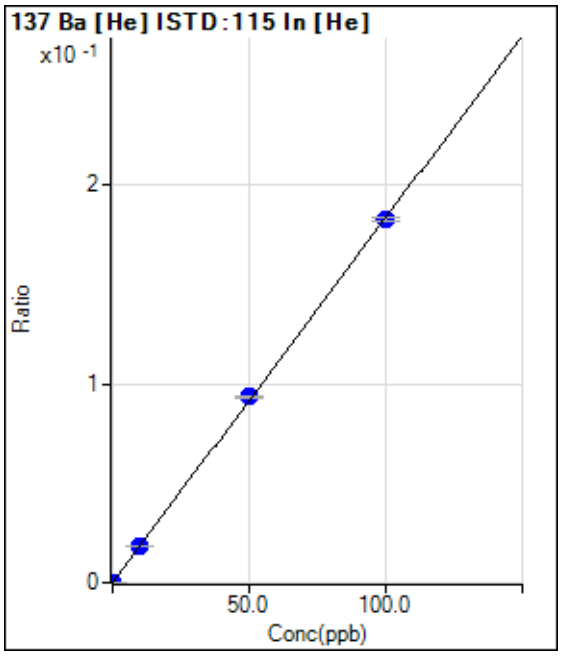
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.45	0.0000	P	27.8
2	☐	10.000	10.268	9028.08	0.0107	P	1.9
3	☐	50.000	50.618	43024.61	0.0524	P	1.6
4	☐	100.000	99.664	84200.88	0.1032	P	0.8
5	☐			46.67	0.0001	P	56.9

y = 0.0010 * x + 2.8640E-005
R = 1.0000
DL = 0.02304
BEC = 0.02767

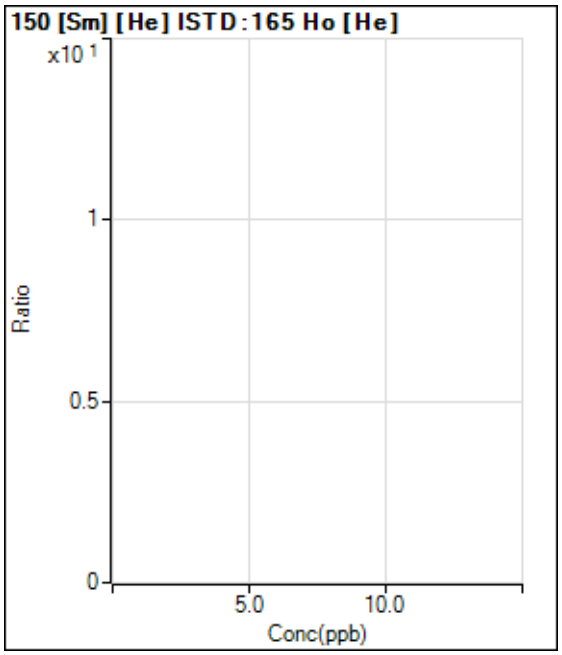
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	42.7
2	☐	10.000	10.158	15805.34	0.0187	P	1.5
3	☐	50.000	50.931	76712.62	0.0935	P	1.3
4	☐	100.000	99.519	149033.97	0.1827	P	0.9
5	☐			108.89	0.0001	P	32.1

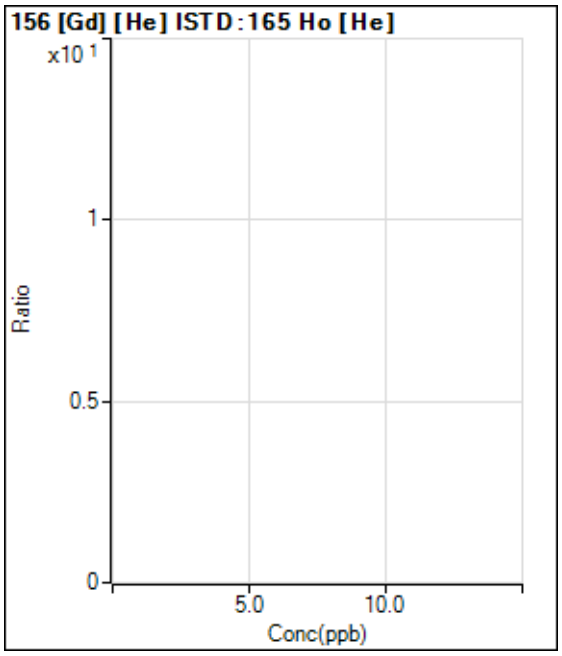
y = 0.0018 * x + 1.5621E-005
R = 0.9999
DL = 0.01092
BEC = 0.008512

Weight: <None>
Min Conc: <None>



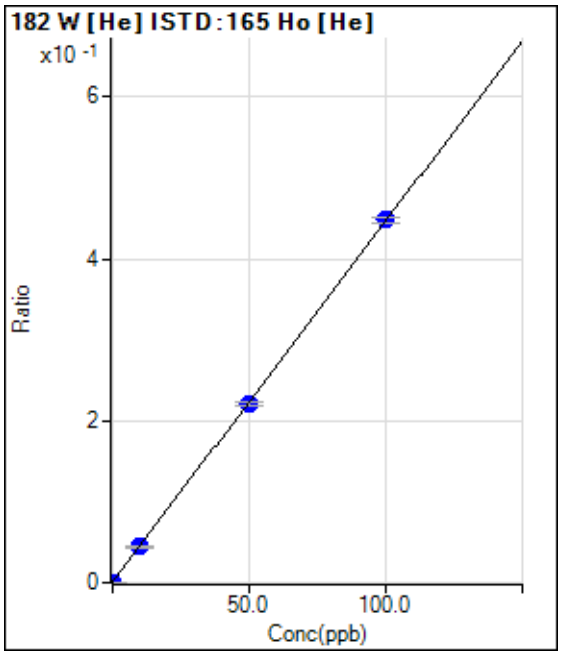
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			8.00	0.0000	P	113.8
2	☐			4.67	0.0000	P	98.8
3	☐			7.33	0.0000	P	79.5
4	☐			11.33	0.0000	P	36.4
5	☐			3.33	0.0000	P	91.5

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			10.67	0.0000	P	9.4
2	☐			8.00	0.0000	P	49.9
3	☐			12.67	0.0000	P	25.2
4	☐			23.33	0.0000	P	30.7
5	☐			12.00	0.0000	P	57.9

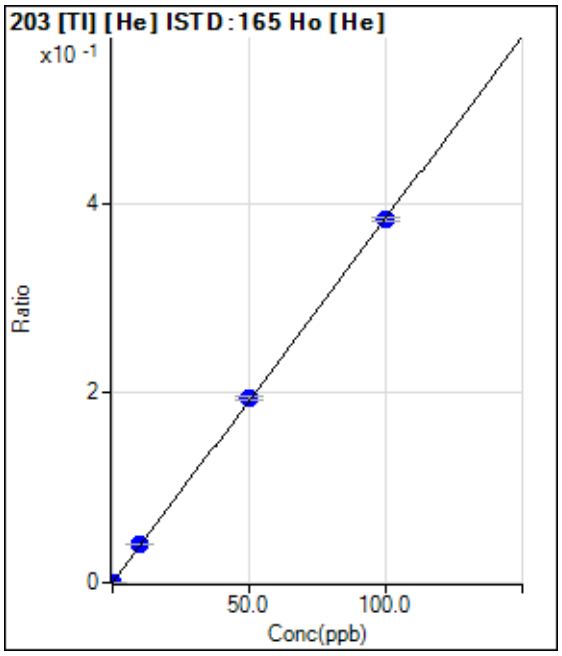
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2685.55	0.0011	P	3.2
2	☐	10.000	9.638	108334.51	0.0440	P	2.5
3	☐	50.000	49.208	537979.96	0.2201	P	1.9
4	☐			11093.20	0.0046	P	14.2
5	☐	100.000	100.432	1115299.47	0.4480	P	1.5

y = 0.0045 * x + 0.0011
R = 0.9999
DL = 0.02365
BEC = 0.246

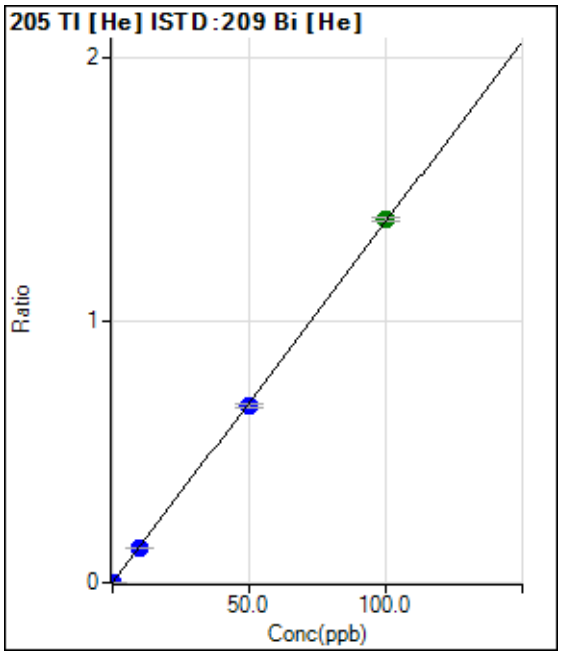
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	159.27	0.0001	P	45.8
2	☐	10.000	10.595	100381.30	0.0408	P	1.6
3	☐	50.000	50.600	475267.21	0.1944	P	1.6
4	☐	100.000	99.641	917907.78	0.3827	P	1.2
5	☐			1437.17	0.0006	P	13.6

y = 0.0038 * x + 6.4689E-005
R = 1.0000
DL = 0.02314
BEC = 0.01684

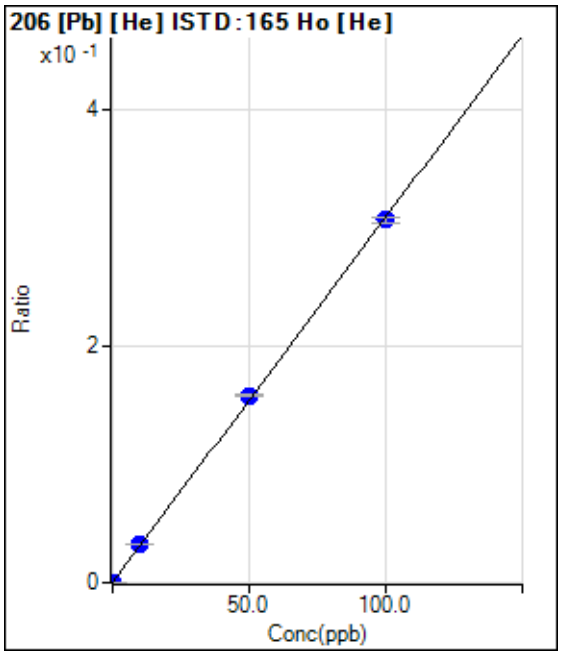
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	396.68	0.0002	P	9.7
2	☐	10.000	9.729	242680.86	0.1341	P	0.8
3	☐	50.000	48.996	1166609.26	0.6747	P	2.1
4	☐	100.000	100.529	2328363.66	1.3841	A	1.0
5	☐			2518.02	0.0014	P	22.6

y = 0.0138 * x + 2.1922E-004
R = 0.9999
DL = 0.004643
BEC = 0.01593

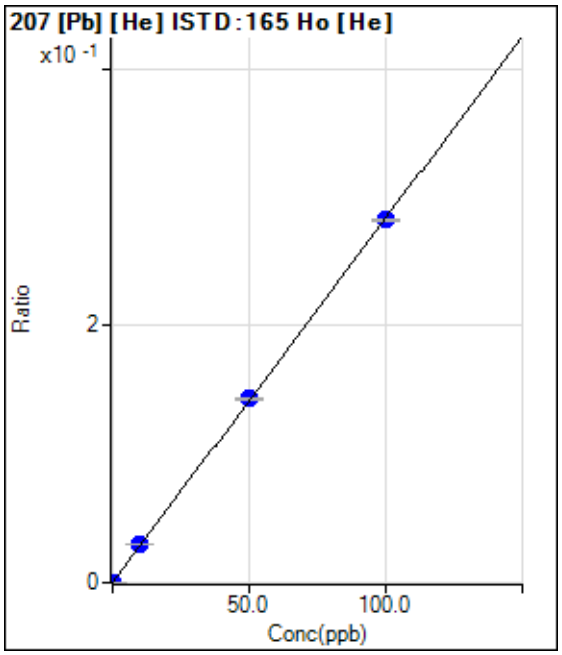
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0001	P	19.9
2	☐	10.000	10.521	80072.52	0.0325	P	0.0
3	☐	50.000	51.141	385419.91	0.1577	P	1.0
4	☐	100.000	99.378	734533.63	0.3063	P	1.3
5	☐			412.23	0.0002	P	10.0

y = 0.0031 * x + 9.4829E-005
R = 0.9999
DL = 0.01842
BEC = 0.03078

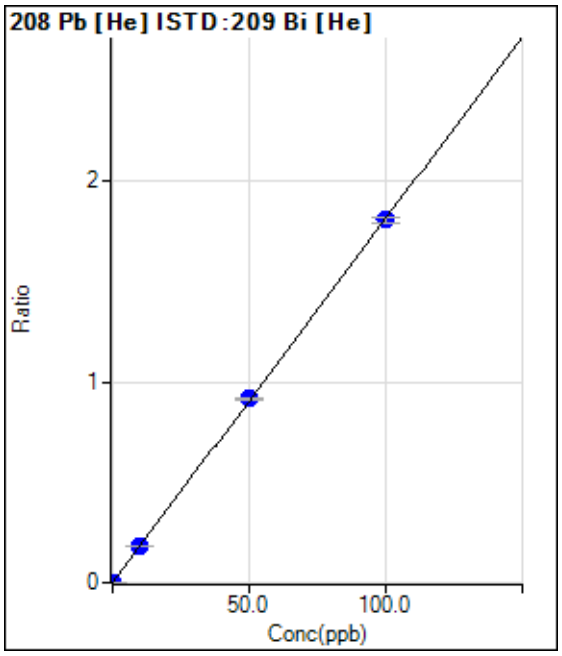
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	208.89	0.0001	P	7.8
2	☐	10.000	10.526	73731.49	0.0299	P	0.8
3	☐	50.000	50.629	351194.74	0.1437	P	1.2
4	☐	100.000	99.633	677846.48	0.2826	P	0.7
5	☐			367.79	0.0001	P	13.4

y = 0.0028 * x + 8.5230E-005
R = 1.0000
DL = 0.007045
BEC = 0.03006

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	886.69	0.0005	P	8.8
2	☐	10.000	10.055	330383.93	0.1826	P	0.8
3	☐	50.000	50.496	1582566.99	0.9152	P	1.4
4	☐	100.000	99.746	3040136.13	1.8073	P	1.4
5	☐			1635.61	0.0009	P	8.3

y = 0.0181 * x + 4.9001E-004
R = 1.0000
DL = 0.007179
BEC = 0.02705

Weight: <None>
Min Conc: <None>

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	001CALB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:21:26-04:00
Sample Type	CalBlk
Level	
Dilution	1
Comment	6020/200.8

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	37	123.76
B	11	45	2	NoGas	6338	0.08
Na	23	45	1	He	35728	0.00
Mg	24	45	1	He	1037	2.07
Al	27	45	1	He	909	0.27
K	39	45	1	He	65051	0.00
Ca	44	45	1	He	547	2.02
Ti	47	45	1	He	11	412.30
V	51	45	1	He	290	60.25
Cr	52	45	1	He	3050	0.09
Mn	55	45	1	He	188	23.47
Fe	56	45	1	He	16236	0.13
Co	59	103	1	He	39	12.71
Ni	60	103	1	He	81	7.74
Cu	63	103	1	He	2405	0.10
Zn	66	103	1	He	816	1.33
As	75	103	1	He	174	9.30
Se	78	103	1	He	33	44.40
Sr	88	103	1	He	134	17.13
Mo	95	103	1	He	6436	0.49
Ag	107	103	1	He	17	432.78
Cd	111	103	1	He	841	0.32
Sn	118	115	1	He	722	2.40
Sb	123	115	1	He	1014	1.04
Ba	137	115	1	He	27	214.81
W	182	165	1	He	2937	0.31
Tl	205	209	1	He	424	1.68
Pb	208	209	1	He	887	1.20

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	1769055	1.62
Sc	45	1	He	573396	0.75
Sc	45	2	NoGas	4318826	0.63
Rh	103	1	He	1618667	1.87
In	115	1	He	840916	0.36
Tb	159	1	He	2408243	0.83
Ho	165	1	He	2439408	1.85
Bi	209	1	He	1797343	2.47

Calibration Blank Report

Sample Table

Sample Name	ICIS
Data File Name	002CALB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:25:17-04:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	4	4677.00
B	11	45	2	NoGas	5846	0.13
Na	23	45	1	He	33509	0.02
Mg	24	45	1	He	926	0.33
Al	27	45	1	He	749	0.55
K	39	45	1	He	64779	0.00
Ca	44	45	1	He	575	0.82
Ti	47	45	1	He	1	15604.06
V	51	45	1	He	265	68.20
Cr	52	45	1	He	3008	0.15
Mn	55	45	1	He	168	6.52
Fe	56	45	1	He	6091	0.07
Co	59	103	1	He	54	67.79
Ni	60	103	1	He	96	58.68
Cu	63	103	1	He	2489	0.19
Zn	66	103	1	He	848	1.26
As	75	103	1	He	197	4.93
Se	78	103	1	He	30	52.45
Sr	88	103	1	He	142	14.77
Mo	95	103	1	He	696	1.17
Ag	107	103	1	He	32	112.75
Cd	111	103	1	He	850	0.70
Sn	118	115	1	He	864	8.85
Sb	123	115	1	He	898	0.35
Ba	137	115	1	He	13	324.76
W	182	165	1	He	2686	0.17
Tl	205	209	1	He	397	2.23
Pb	208	209	1	He	887	0.91

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	1803797	1.24
Sc	45	1	He	574766	0.80
Sc	45	2	NoGas	4296857	0.28
Rh	103	1	He	1652712	0.98
In	115	1	He	852389	0.75
Tb	159	1	He	2425956	1.35
Ho	165	1	He	2452680	1.70
Bi	209	1	He	1810473	1.35

Calibration Standard Report

Sample Table

Sample Name	STD1-1906323
Data File Name	003CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:29:07-04:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	54361	0.01
B	11	2	NoGas	42104	0.01
Na	23	1	He	8305774	0.00
Mg	24	1	He	4722367	0.00
Al	27	1	He	25975	0.00
K	39	1	He	3730768	0.00
Ca	44	1	He	188855	0.00
Ti	47	1	He	2225	0.06
V	51	1	He	59299	0.00
Cr	52	1	He	76509	0.00
Mn	55	1	He	255893	0.00
Fe	56	1	He	16713659	0.00
Co	59	1	He	106200	0.00
Ni	60	1	He	27566	0.01
Cu	63	1	He	75328	0.00
Zn	66	1	He	15620	0.01
As	75	1	He	9289	0.00
Se	78	1	He	818	0.41
Sr	88	1	He	54009	0.00
Mo	95	1	He	30097	0.01
Ag	107	1	He	103935	0.00
Cd	111	1	He	18064	0.00
Sn	118	1	He	40323	0.00
Sb	123	1	He	39777	0.00
Ba	137	1	He	15805	0.01
W	182	1	He	108335	0.00
Tl	205	1	He	242681	0.00
Pb	208	1	He	330384	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1829983	1.25	1803797	101.45	30	120	
Sc	45	1	He	588685	2.48	574766	102.42	30	120	
Sc	45	2	NoGas	4298089	0.50	4296857	100.03	30	120	
Rh	103	1	He	1620298	1.28	1652712	98.04	30	120	
In	115	1	He	847101	0.44	852389	99.38	30	120	
Tb	159	1	He	2406371	1.55	2425956	99.19	30	120	
Ho	165	1	He	2463166	0.85	2452680	100.43	30	120	
Bi	209	1	He	1809267	1.68	1810473	99.93	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD2-1904110
Data File Name	004CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:32:55-04:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	264560	0.00
B	11	2	NoGas	185913	0.00
Na	23	1	He	40367946	0.00
Mg	24	1	He	22951103	0.00
Al	27	1	He	118770	0.00
K	39	1	He	17899163	0.00
Ca	44	1	He	934804	0.00
Ti	47	1	He	11311	0.01
V	51	1	He	290945	0.00
Cr	52	1	He	362778	0.00
Mn	55	1	He	1257657	0.00
Fe	56	1	He	82076888	0.00
Co	59	1	He	512381	0.00
Ni	60	1	He	131389	0.00
Cu	63	1	He	350202	0.00
Zn	66	1	He	71190	0.00
As	75	1	He	44516	0.00
Se	78	1	He	3681	0.03
Sr	88	1	He	261429	0.00
Mo	95	1	He	143084	0.00
Ag	107	1	He	496034	0.00
Cd	111	1	He	84288	0.00
Sn	118	1	He	179339	0.00
Sb	123	1	He	199443	0.00
Ba	137	1	He	76713	0.00
W	182	1	He	537980	0.00
Tl	205	1	He	1166609	0.00
Pb	208	1	He	1582567	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1782194	1.59	1803797	98.80	30	120	
Sc	45	1	He	597813	4.04	574766	104.01	30	120	
Sc	45	2	NoGas	4333353	0.11	4296857	100.85	30	120	
Rh	103	1	He	1565924	0.54	1652712	94.75	30	120	
In	115	1	He	820616	0.59	852389	96.27	30	120	
Tb	159	1	He	2383880	1.20	2425956	98.27	30	120	
Ho	165	1	He	2444895	1.41	2452680	99.68	30	120	
Bi	209	1	He	1729560	1.96	1810473	95.53	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD3-1906333
Data File Name	005CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:36:43-04:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	552759	0.00
B	11	2	NoGas	8795	0.03
Na	23	1	He	78687391	0.00
Mg	24	1	He	44543324	0.00
Al	27	1	He	233036	0.00
K	39	1	He	35133649	0.00
Ca	44	1	He	1878505	0.00
Ti	47	1	He	23	212.03
V	51	1	He	568327	0.00
Cr	52	1	He	698462	0.00
Mn	55	1	He	2467533	0.00
Fe	56	1	He	159363620	0.00
Co	59	1	He	986452	0.00
Ni	60	1	He	250363	0.00
Cu	63	1	He	671068	0.00
Zn	66	1	He	136960	0.00
As	75	1	He	86504	0.00
Se	78	1	He	7179	0.01
Sr	88	1	He	515085	0.00
Mo	95	1	He	2521	0.71
Ag	107	1	He	956217	0.00
Cd	111	1	He	160190	0.00
Sn	118	1	He	1874	0.59
Sb	123	1	He	2011	0.25
Ba	137	1	He	149034	0.00
W	182	1	He	11093	0.12
Tl	205	1	He	2328364	0.00
Pb	208	1	He	3040136	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1742538	0.95	1803797	96.60	30	120	
Sc	45	1	He	589733	2.32	574766	102.60	30	120	
Sc	45	2	NoGas	4352110	1.80	4296857	101.29	30	120	
Rh	103	1	He	1556491	2.05	1652712	94.18	30	120	
In	115	1	He	815923	0.48	852389	95.72	30	120	
Tb	159	1	He	2370842	0.83	2425956	97.73	30	120	
Ho	165	1	He	2398505	0.81	2452680	97.79	30	120	
Bi	209	1	He	1682429	1.64	1810473	92.93	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD4-1906536
Data File Name	006CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:40:29-04:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	104	15.78
B	11	2	NoGas	350464	0.00
Na	23	1	He	51451	0.02
Mg	24	1	He	6954	0.32
Al	27	1	He	2339	0.24
K	39	1	He	74501	0.00
Ca	44	1	He	1412	0.38
Ti	47	1	He	22495	0.00
V	51	1	He	584	16.75
Cr	52	1	He	3164	0.10
Mn	55	1	He	780	2.96
Fe	56	1	He	156745	0.02
Co	59	1	He	173	17.61
Ni	60	1	He	251	3.97
Cu	63	1	He	3063	0.09
Zn	66	1	He	2757	0.05
As	75	1	He	179	4.46
Se	78	1	He	34	39.14
Sr	88	1	He	149	10.88
Mo	95	1	He	299629	0.00
Ag	107	1	He	238	9.44
Cd	111	1	He	874	1.11
Sn	118	1	He	378485	0.00
Sb	123	1	He	396610	0.00
Ba	137	1	He	109	30.06
W	182	1	He	1115299	0.00
Tl	205	1	He	2518	0.93
Pb	208	1	He	1636	0.55

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1809459	1.04	1803797	100.31	30	120	
Sc	45	1	He	595610	3.05	574766	103.63	30	120	
Sc	45	2	NoGas	4264431	0.55	4296857	99.25	30	120	
Rh	103	1	He	1681733	0.43	1652712	101.76	30	120	
In	115	1	He	861710	0.74	852389	101.09	30	120	
Tb	159	1	He	2422877	0.68	2425956	99.87	30	120	
Ho	165	1	He	2489281	0.34	2452680	101.49	30	120	
Bi	209	1	He	1820015	0.70	1810473	100.53	30	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV-1905741
Data File Name	007_ICV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:44:19-04:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	NoGas	40.965	1.605	230876	0.61	40	102.4	89.5	110.5	
B	11	45	NoGas	45.370	1.287	170418	0.84	40	113.4	89.5	110.5	ICV Failed
Na	23	45	He	20795.316	1.676	33581053	0.97	20000	104.0	89.5	110.5	
Mg	24	45	He	20805.660	1.284	19031299	0.73	20000	104.0	89.5	110.5	
Al	27	45	He	206.303	1.209	98922	0.83	200	103.2	89.5	110.5	
K	39	45	He	20829.253	2.095	15024729	1.62	20000	104.1	89.5	110.5	
Ca	44	45	He	20086.972	0.584	769535	0.35	20000	100.4	89.5	110.5	
Ti	47	45	He	42.257	2.065	9633	1.51	40	105.6	89.5	110.5	
V	51	45	He	41.190	1.421	240167	1.89	40	103.0	89.5	110.5	
Cr	52	45	He	41.828	0.567	301986	0.57	40	104.6	89.5	110.5	
Mn	55	45	He	205.489	0.544	1038796	0.43	200	102.7	89.5	110.5	
Fe	56	45	He	10360.675	0.701	67794453	0.55	10000	103.6	89.5	110.5	
Co	59	103	He	40.900	1.658	420531	1.12	40	102.2	89.5	110.5	
Ni	60	103	He	42.303	2.218	110687	1.78	40	105.8	89.5	110.5	
Cu	63	103	He	41.961	0.491	295006	0.53	40	104.9	89.5	110.5	
Zn	66	103	He	42.373	0.631	60907	0.36	40	105.9	89.5	110.5	
As	75	103	He	38.994	0.557	35189	0.15	40	97.5	89.5	110.5	
Se	78	103	He	42.244	1.122	3168	1.52	40	105.6	89.5	110.5	
Sr	88	103	He	41.708	0.268	222908	0.29	40	104.3	89.5	110.5	
Mo	95	103	He	42.867	1.729	124048	2.03	40	107.2	89.5	110.5	
Ag	107	103	He	41.783	1.228	416376	0.77	40	104.5	89.5	110.5	
Cd	111	103	He	41.701	0.762	70231	0.34	40	104.3	89.5	110.5	
Sn	118	115	He	40.842	0.285	152100	0.48	40	102.1	89.5	110.5	
Sb	123	115	He	38.278	1.488	151174	1.90	40	95.7	89.5	110.5	
Ba	137	115	He	41.258	0.589	64062	1.06	40	103.1	89.5	110.5	
W	182	165	He	38.736	1.039	437847	1.42	40	96.8	89.5	110.5	
Tl	205	209	He	38.983	2.080	976920	0.35	40	97.5	89.5	110.5	
Pb	208	209	He	40.332	2.151	1330335	0.42	40	100.8	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	NoGas	1800589	1.38	1803797	99.82	30	120	
Sc	45	He	603000	0.88	574766	104.91	30	120	
Sc	45	NoGas	4456082	1.67	4296857	103.71	30	120	
Rh	103	He	1611284	0.55	1652712	97.49	30	120	
In	115	He	845874	0.48	852389	99.24	30	120	
Tb	159	He	2454423	0.98	2425956	101.17	30	120	
Ho	165	He	2523947	0.68	2452680	102.91	30	120	
Bi	209	He	1820352	2.42	1810473	100.55	30	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	008_ICB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:48:07-04:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Ti	47	1	He	0.065	24.4	16	24.8	20	
W	182	1	He	0.924	11.0	13332	10.3	10	
Ca	44	1	He	0.873	218.1	621	13.4	1000	
Na	23	1	He	4.822	52.2	41774	7.3	400	
Mg	24	1	He	2.282	33.9	2971	21.1	1000	
K	39	1	He	8.026	24.2	71820	0.7	1000	
V	51	1	He	0.011	694.5	327	126.7	2	
Cr	52	1	He	-0.008	-186.6	3019	4.9	2	
Mn	55	1	He	0.044	22.4	387	12.1	2	
Fe	56	1	He	12.742	33.3	87092	28.9	50	
Co	59	1	He	0.002	52.7	73	12.0	1	
Ni	60	1	He	-0.003	-101.0	91	8.4	2	
Cu	63	1	He	-0.011	-34.5	2474	1.7	2	
Zn	66	1	He	-0.093	-30.3	731	6.3	20	
As	75	1	He	-0.005	-387.9	197	10.1	2	
Se	78	1	He	-0.097	-41.0	23	13.6	2	
Sr	88	1	He	0.003	181.8	162	17.7	10	
Mo	95	1	He	0.603	22.7	2538	16.4	2	
Ag	107	1	He	0.004	63.6	76	35.9	0.2	
Cd	111	1	He	0.020	121.9	907	4.1	0.2	
Ba	137	1	He	0.016	64.1	40	41.7	5	
Sn	118	1	He	0.339	5.3	2222	3.1	10	
Tl	205	1	He	0.031	18.5	1207	11.7	0.5	
Pb	208	1	He	0.008	64.2	1199	14.3	1	
Al	27	1	He	3.511	6.7	2394	5.8	50	
Sb	123	1	He	1.144	17.4	5658	14.7	1	ICB Failed
B	11	2	NoGas	1.720	6.6	12575	2.8	20	
Be	9	2	NoGas	0.004	89.8	30	78.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1875044	0.26	1803797	103.95	30	120	
Sc	45	1	He	587571	2.16	574766	102.23	30	120	
Sc	45	2	NoGas	4558911	0.87	4296857	106.10	30	120	
Rh	103	1	He	1694640	0.62	1652712	102.54	30	120	
In	115	1	He	888773	0.18	852389	104.27	30	120	

Tb	159	1	He	2511691	0.78	2425956	103.53	30	120	
Ho	165	1	He	2559212	1.70	2452680	104.34	30	120	
Bi	209	1	He	1878525	0.79	1810473	103.76	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	XCRI-1912660
Data File Name	009CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:51:57-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.771	0.771	8.192	4527	7.19	1	77.1	69.5	130.5	
B	11	2	NoGas	18.995	18.995	2.194	75449	1.05	20	95.0	69.5	130.5	
Na	23	1	He	1093.029	1093.029	1.599	1826107	0.45	1000	109.3	69.5	130.5	
Mg	24	1	He	1082.098	1082.098	1.201	1006047	0.90	1000	108.2	69.5	130.5	
Al	27	1	He	53.980	53.980	0.349	26874	1.50	50	108.0	69.5	130.5	
K	39	1	He	1063.572	1063.572	1.618	844506	0.57	1000	106.4	69.5	130.5	
Ca	44	1	He	1035.093	1035.093	2.574	40846	2.22	1000	103.5	69.5	130.5	
Ti	47	1	He	10.408	10.408	1.427	2410	1.23	10	104.1	69.5	130.5	
V	51	1	He	5.416	5.416	0.762	32315	2.45	5	108.3	69.5	130.5	
Cr	52	1	He	2.110	2.110	2.464	18516	3.10	2	105.5	69.5	130.5	
Mn	55	1	He	5.267	5.267	4.091	27202	2.79	5	105.3	69.5	130.5	
Fe	56	1	He	107.243	107.243	0.986	719018	1.36	100	107.2	69.5	130.5	
Co	59	1	He	1.021	1.021	0.322	11297	0.68	1	102.1	69.5	130.5	
Ni	60	1	He	2.107	2.107	2.881	5997	1.97	2	105.3	69.5	130.5	
Cu	63	1	He	2.054	2.054	3.254	17935	1.84	2	102.7	69.5	130.5	
Zn	66	1	He	21.027	21.027	2.084	32806	1.15	20	105.1	69.5	130.5	
As	75	1	He	5.004	5.004	4.785	5013	3.64	5	100.1	69.5	130.5	
Se	78	1	He	5.008	5.008	4.359	429	3.40	5	100.2	69.5	130.5	
Sr	88	1	He	9.826	9.826	2.542	56338	1.94	10	98.3	69.5	130.5	
Mo	95	1	He	10.346	10.346	2.664	32603	1.68	10	103.5	69.5	130.5	
Ag	107	1	He	1.031	1.031	0.360	11033	1.36	1	103.1	69.5	130.5	
Cd	111	1	He	1.035	1.035	4.114	2731	2.65	1	103.5	69.5	130.5	
Sn	118	1	He	9.741	9.741	2.572	39053	2.48	10	97.4	69.5	130.5	
Sb	123	1	He	2.255	2.255	3.570	10303	3.19	2	112.7	69.5	130.5	
Ba	137	1	He	5.125	5.125	2.006	8427	2.05	5	102.5	69.5	130.5	
W	182	1	He	9.909	9.909	3.027	115587	2.36	10	99.1	69.5	130.5	
Tl	205	1	He	1.945	1.945	0.449	51140	1.06	2	97.2	69.5	130.5	
Pb	208	1	He	1.018	1.018	1.354	35872	0.29	1	101.8	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1875342	1.04	1803797	103.97	30	120	
Sc	45	1	He	612363	1.84	574766	106.54	30	120	
Sc	45	2	NoGas	4491024	2.03	4296857	104.52	30	120	
Rh	103	1	He	1725327	1.00	1652712	104.39	30	120	
In	115	1	He	894477	0.07	852389	104.94	30	120	
Tb	159	1	He	2490587	1.23	2425956	102.66	30	120	
Ho	165	1	He	2558230	1.23	2452680	104.30	30	120	
Bi	209	1	He	1894755	1.09	1810473	104.66	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	010CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:55:45-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.864	0.864	5.977	5034	6.10	1	86.4	69.5	130.5	
B	11	2	NoGas	20.277	20.277	2.601	80459	1.70	20	101.4	69.5	130.5	
Na	23	1	He	1082.374	1082.374	0.735	1797738	0.80	1000	108.2	69.5	130.5	
Mg	24	1	He	1076.324	1076.324	0.629	994587	0.63	1000	107.6	69.5	130.5	
Al	27	1	He	50.620	50.620	0.625	25097	1.71	50	101.2	69.5	130.5	
K	39	1	He	1051.718	1051.718	1.760	830739	0.51	1000	105.2	69.5	130.5	
Ca	44	1	He	1018.514	1018.514	1.269	39955	0.22	1000	101.9	69.5	130.5	
Ti	47	1	He	10.517	10.517	2.873	2420	1.81	10	105.2	69.5	130.5	
V	51	1	He	5.259	5.259	0.958	31192	1.97	5	105.2	69.5	130.5	
Cr	52	1	He	2.144	2.144	1.472	18645	1.06	2	107.2	69.5	130.5	
Mn	55	1	He	5.314	5.314	1.742	27286	2.19	5	106.3	69.5	130.5	
Fe	56	1	He	106.639	106.639	0.703	710614	0.70	100	106.6	69.5	130.5	
Co	59	1	He	1.052	1.052	2.449	11483	1.39	1	105.2	69.5	130.5	
Ni	60	1	He	2.078	2.078	2.089	5841	1.05	2	103.9	69.5	130.5	
Cu	63	1	He	2.029	2.029	1.801	17513	0.52	2	101.4	69.5	130.5	
Zn	66	1	He	20.233	20.233	1.286	31193	0.58	20	101.2	69.5	130.5	
As	75	1	He	4.959	4.959	2.001	4907	0.88	5	99.2	69.5	130.5	
Se	78	1	He	5.265	5.265	6.605	444	5.39	5	105.3	69.5	130.5	
Sr	88	1	He	9.777	9.777	1.164	55338	0.12	10	97.8	69.5	130.5	
Mo	95	1	He	10.532	10.532	1.755	32749	0.90	10	105.3	69.5	130.5	
Ag	107	1	He	1.054	1.054	1.797	11136	0.75	1	105.4	69.5	130.5	
Cd	111	1	He	1.039	1.039	2.111	2704	1.60	1	103.9	69.5	130.5	
Sn	118	1	He	9.889	9.889	3.545	39146	3.47	10	98.9	69.5	130.5	
Sb	123	1	He	2.061	2.061	4.285	9379	3.53	2	103.0	69.5	130.5	
Ba	137	1	He	4.979	4.979	0.821	8088	1.06	5	99.6	69.5	130.5	
W	182	1	He	10.116	10.116	3.077	116750	1.53	10	101.2	69.5	130.5	
Tl	205	1	He	1.953	1.953	2.828	50895	1.09	2	97.7	69.5	130.5	
Pb	208	1	He	1.046	1.046	4.419	36473	2.44	1	104.6	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1860202	0.65	1803797	103.13	30	120	
Sc	45	1	He	608582	1.25	574766	105.88	30	120	
Sc	45	2	NoGas	4508914	0.75	4296857	104.94	30	120	
Rh	103	1	He	1703021	1.04	1652712	103.04	30	120	
In	115	1	He	883492	0.34	852389	103.65	30	120	
Tb	159	1	He	2493784	1.34	2425956	102.80	30	120	
Ho	165	1	He	2532687	1.51	2452680	103.26	30	120	
Bi	209	1	He	1878254	1.91	1810473	103.74	30	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA-1912681
Data File Name	011ICSA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:59:37-04:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.012	29.7	67	28.9	1	
B	11	45	2	NoGas	0.906	11.2	8680	4.1	20	
Na	23	45	1	He	48899.721	4.6	75663828	0.5	75200	
Mg	24	45	1	He	49308.370	4.8	43237583	0.3	75200	
Al	27	45	1	He	47667.175	4.6	21739361	0.5	75200	
K	39	45	1	He	49452.379	3.4	34125213	1.8	75200	
Ca	44	45	1	He	49074.734	5.0	1801510	1.6	75200	
Ti	47	45	1	He	989.188	4.1	216202	1.0	1505	
V	51	45	1	He	0.029	572.9	407	217.6	4	
Cr	52	45	1	He	0.665	8.6	7581	1.4	4	
Mn	55	45	1	He	0.357	5.7	1900	0.8	4	
Fe	56	45	1	He	49432.637	4.4	310102370	1.0	75200	
Co	59	103	1	He	0.026	5.1	286	3.8	2	
Ni	60	103	1	He	0.115	13.4	356	11.3	4	
Cu	63	103	1	He	0.336	1.9	4308	2.1	4	
Zn	66	103	1	He	1.015	5.6	2045	2.7	10	
As	75	103	1	He	0.061	84.5	223	19.1	4	
Se	78	103	1	He	0.085	145.4	32	26.1	4	
Sr	88	103	1	He	0.336	7.2	1746	8.1	20	
Mo	95	103	1	He	1074.771	2.6	2792445	2.7	1505	
Ag	107	103	1	He	0.008	11.0	97	6.9	1	
Cd	111	103	1	He	0.119	46.7	926	7.6	1	
Sn	118	115	1	He	0.320	15.4	1919	9.0	20	
Sb	123	115	1	He	0.218	11.6	1638	5.6	1	
Ba	137	115	1	He	0.060	28.6	100	25.2	2	
W	182	165	1	He	0.275	14.5	5583	7.3	20	
Tl	205	209	1	He	0.003	122.8	422	18.2	1	
Pb	208	209	1	He	0.100	1.4	3779	0.5	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1663903	0.65	1803797	92.24	30	120	
Sc	45	1	He	579008	5.21	574766	100.74	30	120	
Sc	45	2	NoGas	4139083	1.16	4296857	96.33	30	120	
Rh	103	1	He	1454480	1.71	1652712	88.01	30	120	
In	115	1	He	793250	0.23	852389	93.06	30	120	
Tb	159	1	He	2331791	1.13	2425956	96.12	30	120	
Ho	165	1	He	2408673	0.72	2452680	98.21	30	120	
Bi	209	1	He	1643463	0.67	1810473	90.78	30	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB-1883162
Data File Name	012ICAB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:04:36-04:00
Sample Type	ICSAB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	2	NoGas	110.524	2.123	576296	1.96	100	110.5	79.5	120.5	
B	11	45	2	NoGas	116.481	0.645	397951	2.23	100	116.5	79.5	120.5	
Na	23	45	1	He	49722.182	5.040	76840101	0.60	50000	99.4	79.5	120.5	
Mg	24	45	1	He	49742.960	4.510	43576156	0.77	50000	99.5	79.5	120.5	
Al	27	45	1	He	47833.884	4.121	21794703	0.39	50000	95.7	79.5	120.5	
K	39	45	1	He	49467.828	4.942	34081673	1.30	50000	98.9	79.5	120.5	
Ca	44	45	1	He	50012.837	3.861	1834470	1.19	50000	100.0	79.5	120.5	
Ti	47	45	1	He	1097.078	4.668	239473	0.49	1100	99.7	79.5	120.5	
V	51	45	1	He	100.543	4.525	561018	0.06	100	100.5	79.5	120.5	
Cr	52	45	1	He	101.480	4.748	697295	0.35	100	101.5	79.5	120.5	
Mn	55	45	1	He	100.102	4.137	484761	0.34	100	100.1	79.5	120.5	
Fe	56	45	1	He	49899.187	4.385	312681570	0.10	50000	99.8	79.5	120.5	
Co	59	103	1	He	104.365	1.568	985989	0.78	100	104.4	79.5	120.5	
Ni	60	103	1	He	104.976	1.513	252277	0.58	100	105.0	79.5	120.5	
Cu	63	103	1	He	103.575	1.497	665828	0.46	100	103.6	79.5	120.5	
Zn	66	103	1	He	105.734	1.910	138514	1.02	100	105.7	79.5	120.5	
As	75	103	1	He	104.869	1.344	86662	0.31	100	104.9	79.5	120.5	
Se	78	103	1	He	106.356	1.587	7288	0.74	100	106.4	79.5	120.5	
Sr	88	103	1	He	105.046	1.778	515656	0.87	100	105.0	79.5	120.5	
Mo	95	103	1	He	1187.610	1.129	3141395	1.54	1100	108.0	79.5	120.5	
Ag	107	103	1	He	103.004	1.433	943145	0.42	100	103.0	79.5	120.5	
Cd	111	103	1	He	105.831	1.518	162609	0.90	100	105.8	79.5	120.5	
Sn	118	115	1	He	100.152	1.437	350361	1.33	100	100.2	79.5	120.5	
Sb	123	115	1	He	106.343	1.013	394335	0.85	100	106.3	79.5	120.5	
Ba	137	115	1	He	103.974	0.508	152144	0.33	100	104.0	79.5	120.5	
W	182	165	1	He	99.019	1.407	1077620	0.14	100	99.0	79.5	120.5	
Tl	205	209	1	He	102.342	1.354	2397189	1.53	100	102.3	79.5	120.5	
Pb	208	209	1	He	102.533	1.387	3160447	0.70	100	102.5	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1665825	1.58	1803797	92.35	30	120	
Sc	45	1	He	578252	4.55	574766	100.61	30	120	
Sc	45	2	NoGas	4142398	2.04	4296857	96.41	30	120	
Rh	103	1	He	1480677	1.04	1652712	89.59	30	120	
In	115	1	He	797267	0.18	852389	93.53	30	120	
Tb	159	1	He	2355384	0.55	2425956	97.09	30	120	
Ho	165	1	He	2439765	1.31	2452680	99.47	30	120	
Bi	209	1	He	1701344	0.79	1810473	93.97	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	013_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:08:20-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.225	2.425	261374	2.81	50	96.5	89.5	110.5	
B	11	45	2	NoGas	53.743	2.374	191061	3.04	50	107.5	89.5	110.5	
Na	23	45	1	He	25852.707	2.209	40235570	0.86	25000	103.4	89.5	110.5	
Mg	24	45	1	He	26017.402	2.763	22937867	0.58	25000	104.1	89.5	110.5	
Al	27	45	1	He	259.046	2.219	119536	0.40	250	103.6	89.5	110.5	
K	39	45	1	He	25513.553	2.352	17724977	0.25	25000	102.1	89.5	110.5	
Ca	44	45	1	He	25138.273	2.432	928102	0.21	25000	100.6	89.5	110.5	
Ti	47	45	1	He	52.979	3.785	11638	1.66	50	106.0	89.5	110.5	
V	51	45	1	He	51.610	1.146	290022	1.17	50	103.2	89.5	110.5	
Cr	52	45	1	He	51.995	1.440	361150	1.22	50	104.0	89.5	110.5	
Mn	55	45	1	He	257.081	2.132	1252656	0.44	250	102.8	89.5	110.5	
Fe	56	45	1	He	12931.990	2.048	81566581	0.83	12500	103.5	89.5	110.5	
Co	59	103	1	He	49.813	4.036	510104	0.57	50	99.6	89.5	110.5	
Ni	60	103	1	He	50.118	3.456	130610	0.07	50	100.2	89.5	110.5	
Cu	63	103	1	He	50.242	4.031	351314	0.66	50	100.5	89.5	110.5	
Zn	66	103	1	He	50.821	4.076	72589	0.84	50	101.6	89.5	110.5	
As	75	103	1	He	49.534	3.588	44473	0.44	50	99.1	89.5	110.5	
Se	78	103	1	He	50.456	4.039	3763	1.46	50	100.9	89.5	110.5	
Sr	88	103	1	He	49.815	3.436	265163	0.77	50	99.6	89.5	110.5	
Mo	95	103	1	He	76.495	9.731	219633	6.21	50	153.0	89.5	110.5	CCV Failed
Ag	107	103	1	He	50.853	3.948	504702	0.52	50	101.7	89.5	110.5	
Cd	111	103	1	He	50.776	3.781	84994	0.35	50	101.6	89.5	110.5	
Sn	118	115	1	He	50.506	0.665	184281	0.27	50	101.0	89.5	110.5	
Sb	123	115	1	He	53.192	0.104	205697	0.60	50	106.4	89.5	110.5	
Ba	137	115	1	He	51.332	0.072	78173	0.51	50	102.7	89.5	110.5	
W	182	165	1	He	51.559	0.845	569157	1.00	50	103.1	89.5	110.5	
Tl	205	209	1	He	48.485	0.067	1193984	0.73	50	97.0	89.5	110.5	
Pb	208	209	1	He	50.075	0.673	1622945	0.08	50	100.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1731215	0.41	1803797	95.98	30	120	
Sc	45	1	He	581408	2.33	574766	101.16	30	120	
Sc	45	2	NoGas	4239984	0.73	4296857	98.68	30	120	
Rh	103	1	He	1606171	3.43	1652712	97.18	30	120	
In	115	1	He	829658	0.50	852389	97.33	30	120	
Tb	159	1	He	2438423	1.00	2425956	100.51	30	120	
Ho	165	1	He	2468805	0.49	2452680	100.66	30	120	
Bi	209	1	He	1788372	0.75	1810473	98.78	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	014_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:12:10-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.011	45.9	67	44.1	1	
B	11	45	2	NoGas	1.448	8.4	10763	3.0	20	
Na	23	45	1	He	10.355	20.6	48245	4.6	400	
Mg	24	45	1	He	4.438	36.0	4668	26.9	1000	
Al	27	45	1	He	1.844	25.1	1546	11.3	50	
K	39	45	1	He	14.728	38.1	73084	3.0	1000	
Ca	44	45	1	He	3.764	85.0	696	17.5	1000	
Ti	47	45	1	He	0.256	23.9	56	25.0	20	
V	51	45	1	He	0.019	918.8	356	273.6	2	
Cr	52	45	1	He	0.007	163.4	2985	0.8	2	
Mn	55	45	1	He	0.018	57.5	247	17.6	2	
Fe	56	45	1	He	18.650	27.3	119188	23.9	50	
Co	59	103	1	He	0.007	46.6	131	26.0	1	
Ni	60	103	1	He	0.018	45.6	147	15.9	2	
Cu	63	103	1	He	-0.018	-8.5	2387	0.6	2	
Zn	66	103	1	He	0.027	229.4	898	9.2	20	
As	75	103	1	He	-0.018	-85.1	183	6.5	2	
Se	78	103	1	He	0.008	1158.9	31	23.5	2	
Sr	88	103	1	He	0.005	49.9	173	8.4	10	
Mo	95	103	1	He	4.338	10.2	13662	8.9	2	CCB Failed
Ag	107	103	1	He	0.007	10.3	108	6.4	0.2	
Cd	111	103	1	He	0.008	309.6	874	4.6	0.2	
Sn	118	115	1	He	0.370	18.4	2274	11.4	10	
Sb	123	115	1	He	0.273	4.9	2001	2.9	1	
Ba	137	115	1	He	0.011	47.1	31	27.0	5	
W	182	165	1	He	1.086	19.9	14745	15.6	10	
Tl	205	209	1	He	0.050	19.8	1681	14.6	0.5	
Pb	208	209	1	He	0.011	45.1	1273	12.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1788417	2.49	1803797	99.15	30	120	
Sc	45	1	He	561517	2.03	574766	97.69	30	120	
Sc	45	2	NoGas	4242354	1.28	4296857	98.73	30	120	
Rh	103	1	He	1673248	1.10	1652712	101.24	30	120	
In	115	1	He	863146	0.38	852389	101.26	30	120	
Tb	159	1	He	2456728	0.96	2425956	101.27	30	120	
Ho	165	1	He	2490020	0.60	2452680	101.52	30	120	
Bi	209	1	He	1853457	0.91	1810473	102.37	30	120	

Sample Report

Sample Table

Sample Name	LIN 2
Data File Name	015SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:16:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.061	3.061	1.93	17012	0.02	10000	
B	11	45	2	NoGas	11.858	11.858	2.28	50121	0.02	300	
Na	23	45	1	He	120.183	120.183	2.78	243944	0.05	500000	
Mg	24	45	1	He	7435.125	7435.125	1.43	7245908	0.10	500000	
Al	27	45	1	He	38687.656	38687.656	2.30	19602610	0.20	200000	
K	39	45	1	He	3184.621	3184.621	0.69	2508724	0.13	500000	
Ca	44	45	1	He	628.842	628.842	4.34	26275	2.39	500000	
Ti	47	45	1	He	329.204	329.204	0.97	79940	0.41	2500	
V	51	45	1	He	110.212	110.212	1.29	684071	0.02	10000	
Cr	52	45	1	He	94.299	94.299	1.62	720992	0.01	10000	
Mn	55	45	1	He	7717.550	7717.550	1.56	41554453	0.02	10000	
Fe	56	45	1	He	195732.989	195732.989	2.33	1364036035	0.01	200000	
Co	59	103	1	He	60.540	60.540	1.43	633251	0.01	10000	
Ni	60	103	1	He	91.634	91.634	1.25	243825	0.04	10000	
Cu	63	103	1	He	60.839	60.839	0.67	434052	0.01	10000	
Zn	66	103	1	He	204.714	204.714	1.68	296128	0.07	10000	
As	75	103	1	He	73.865	73.865	0.77	67643	0.11	10000	
Se	78	103	1	He	5.025	5.025	7.07	409	1.23	10000	
Sr	88	103	1	He	21.855	21.855	0.91	118913	0.02	10000	
Mo	95	103	1	He	9.907	9.907	1.87	29702	0.03	2000	
Ag	107	103	1	He	0.091	0.091	2.51	958	0.01	300	
Cd	111	103	1	He	0.547	0.547	6.64	1769	0.03	4000	
Sn	118	115	1	He	17.678	17.678	2.89	65594	0.03	2000	
Sb	123	115	1	He	1.035	1.035	9.71	4899	0.02	300	
Ba	137	115	1	He	304.437	304.437	0.32	467360	0.07	10000	
W	182	165	1	He	0.535	0.535	9.14	8873	0.01	2500	
Tl	205	209	1	He	0.809	0.809	1.10	20887	0.00	5000	
Pb	208	209	1	He	69.044	69.044	1.79	2300013	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1774961	0.31	1803797	98.40	30	120	
Sc	45	1	He	642438	2.04	574766	111.77	30	120	
Sc	45	2	NoGas	4555411	1.31	4296857	106.02	30	120	
Rh	103	1	He	1639351	1.31	1652712	99.19	30	120	
In	115	1	He	836463	0.76	852389	98.13	30	120	
Tb	159	1	He	2517791	0.64	2425956	103.79	30	120	
Ho	165	1	He	2553262	1.19	2452680	104.10	30	120	
Bi	209	1	He	1838786	2.13	1810473	101.56	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	016_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:19:53-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.571	6.3	2767	5.6	1	
B	11	45	2	NoGas	2.957	9.2	13706	5.6	20	
Na	23	45	1	He	28.371	1.4	69315	1.4	400	
Mg	24	45	1	He	1630.488	2.7	1278062	1.0	1000	Blank Failed
Al	27	45	1	He	8279.169	1.3	3374000	0.6	50	Blank Failed
K	39	45	1	He	651.591	1.0	459009	1.0	1000	
Ca	44	45	1	He	132.218	1.9	4852	1.2	1000	
Ti	47	45	1	He	69.559	0.9	13583	1.8	20	Blank Failed
V	51	45	1	He	22.530	0.8	112628	1.1	2	Blank Failed
Cr	52	45	1	He	20.066	1.8	125487	0.3	2	Blank Failed
Mn	55	45	1	He	1658.479	1.3	7180059	0.6	2	Blank Failed
Fe	56	45	1	He	41793.746	1.1	234227777	0.8	50	Blank Failed
Co	59	103	1	He	11.970	0.3	109026	0.9	1	Blank Failed
Ni	60	103	1	He	18.014	1.7	41786	0.8	2	Blank Failed
Cu	63	103	1	He	12.261	0.6	77856	0.9	2	Blank Failed
Zn	66	103	1	He	42.181	1.9	53691	1.0	20	Blank Failed
As	75	103	1	He	14.561	0.5	11743	0.7	2	Blank Failed
Se	78	103	1	He	0.944	10.5	88	6.9	2	
Sr	88	103	1	He	4.254	1.9	20244	2.7	10	
Mo	95	103	1	He	1.846	3.4	5306	3.3	2	
Ag	107	103	1	He	0.020	32.4	202	29.0	0.2	
Cd	111	103	1	He	0.105	10.8	888	2.8	0.2	
Sn	118	115	1	He	3.373	1.9	11704	1.7	10	
Sb	123	115	1	He	0.182	1.9	1407	0.9	1	
Ba	137	115	1	He	61.185	0.9	83280	0.8	5	Blank Failed
W	182	165	1	He	0.070	39.2	3275	8.7	10	
Tl	205	209	1	He	0.161	2.4	4045	2.3	0.5	
Pb	208	209	1	He	14.353	2.9	432795	1.0	1	Blank Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1545848	2.94	1803797	85.70	30	120	
Sc	45	1	He	516554	1.88	574766	89.87	30	120	
Sc	45	2	NoGas	3641954	1.70	4296857	84.76	30	120	
Rh	103	1	He	1426887	0.98	1652712	86.34	30	120	
In	115	1	He	741560	0.24	852389	87.00	30	120	
Tb	159	1	He	2263899	1.89	2425956	93.32	30	120	
Ho	165	1	He	2330877	0.12	2452680	95.03	30	120	
Bi	209	1	He	1662485	2.94	1810473	91.83	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	017_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:23:44-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.835	3.532	218134	2.34	50	91.7	89.5	110.5	
B	11	45	2	NoGas	51.677	1.845	160197	1.43	50	103.4	89.5	110.5	
Na	23	45	1	He	25724.312	2.623	35484959	1.03	25000	102.9	89.5	110.5	
Mg	24	45	1	He	25636.297	3.807	20029243	0.64	25000	102.5	89.5	110.5	
Al	27	45	1	He	250.535	2.564	102492	0.95	250	100.2	89.5	110.5	
K	39	45	1	He	25167.075	3.297	15495805	0.55	25000	100.7	89.5	110.5	
Ca	44	45	1	He	24660.498	3.108	806925	0.43	25000	98.6	89.5	110.5	
Ti	47	45	1	He	49.817	5.237	9697	2.46	50	99.6	89.5	110.5	
V	51	45	1	He	50.571	4.734	251726	1.40	50	101.1	89.5	110.5	
Cr	52	45	1	He	51.573	3.414	317422	0.27	50	103.1	89.5	110.5	
Mn	55	45	1	He	255.401	3.009	1102900	0.37	250	102.2	89.5	110.5	
Fe	56	45	1	He	12876.573	3.544	71967057	0.19	12500	103.0	89.5	110.5	
Co	59	103	1	He	50.318	0.939	452525	0.58	50	100.6	89.5	110.5	
Ni	60	103	1	He	50.428	2.002	115394	1.57	50	100.9	89.5	110.5	
Cu	63	103	1	He	51.297	1.743	314956	1.36	50	102.6	89.5	110.5	
Zn	66	103	1	He	51.218	1.261	64242	1.19	50	102.4	89.5	110.5	
As	75	103	1	He	49.760	1.226	39230	0.82	50	99.5	89.5	110.5	
Se	78	103	1	He	50.058	2.171	3278	1.39	50	100.1	89.5	110.5	
Sr	88	103	1	He	49.668	0.399	232154	0.50	50	99.3	89.5	110.5	
Mo	95	103	1	He	51.852	3.317	131128	3.83	50	103.7	89.5	110.5	
Ag	107	103	1	He	51.941	0.776	452719	0.36	50	103.9	89.5	110.5	
Cd	111	103	1	He	52.349	1.156	76927	0.40	50	104.7	89.5	110.5	
Sn	118	115	1	He	50.660	2.049	166232	2.50	50	101.3	89.5	110.5	
Sb	123	115	1	He	53.102	0.868	184662	0.61	50	106.2	89.5	110.5	
Ba	137	115	1	He	50.923	0.904	69735	0.37	50	101.8	89.5	110.5	
W	182	165	1	He	49.789	1.852	518291	1.06	50	99.6	89.5	110.5	
Tl	205	209	1	He	50.649	0.286	1122247	0.62	50	101.3	89.5	110.5	
Pb	208	209	1	He	52.256	0.302	1523914	0.83	50	104.5	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1520695	1.41	1803797	84.31	30	120	
Sc	45	1	He	515454	3.42	574766	89.68	30	120	
Sc	45	2	NoGas	3693378	0.80	4296857	85.96	30	120	
Rh	103	1	He	1409341	0.81	1652712	85.27	30	120	
In	115	1	He	746084	0.53	852389	87.53	30	120	
Tb	159	1	He	2261577	0.29	2425956	93.22	30	120	
Ho	165	1	He	2328023	1.43	2452680	94.92	30	120	
Bi	209	1	He	1609126	0.54	1810473	88.88	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	018_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:27:36-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.008	112.0	41	103.3	1	
B	11	45	2	NoGas	1.153	8.8	8558	2.9	20	
Na	23	45	1	He	7.427	12.5	39031	2.1	400	
Mg	24	45	1	He	2.389	21.4	2611	13.7	1000	
Al	27	45	1	He	1.460	16.1	1226	6.8	50	
K	39	45	1	He	19.837	14.3	68080	1.4	1000	
Ca	44	45	1	He	2.649	40.0	583	5.8	1000	
Ti	47	45	1	He	0.113	36.9	22	34.7	20	
V	51	45	1	He	0.021	446.3	330	135.6	2	
Cr	52	45	1	He	0.007	258.7	2655	2.9	2	
Mn	55	45	1	He	0.185	21.3	921	16.9	2	
Fe	56	45	1	He	19.205	24.1	109193	21.8	50	
Co	59	103	1	He	0.005	49.5	101	24.7	1	
Ni	60	103	1	He	-0.002	-200.1	82	9.4	2	
Cu	63	103	1	He	0.015	12.9	2341	1.0	2	
Zn	66	103	1	He	-0.010	-266.4	751	4.5	20	
As	75	103	1	He	-0.037	-40.9	147	9.4	2	
Se	78	103	1	He	0.066	102.9	31	15.6	2	
Sr	88	103	1	He	0.004	140.8	147	18.0	10	
Mo	95	103	1	He	0.832	21.2	2840	16.3	2	
Ag	107	103	1	He	0.002	99.4	47	37.1	0.2	
Cd	111	103	1	He	0.000	-62476.3	766	4.1	0.2	
Sn	118	115	1	He	0.200	17.4	1482	8.8	10	
Sb	123	115	1	He	0.186	20.7	1499	8.9	1	
Ba	137	115	1	He	0.019	80.0	39	55.1	5	
W	182	165	1	He	0.836	17.5	11423	13.6	10	
Tl	205	209	1	He	0.039	26.3	1315	17.8	0.5	
Pb	208	209	1	He	0.016	3.8	1341	1.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1540364	0.52	1803797	85.40	30	120	
Sc	45	1	He	499468	1.12	574766	86.90	30	120	
Sc	45	2	NoGas	3724923	0.80	4296857	86.69	30	120	
Rh	103	1	He	1489356	0.79	1652712	90.12	30	120	
In	115	1	He	781890	0.83	852389	91.73	30	120	
Tb	159	1	He	2290537	1.88	2425956	94.42	30	120	
Ho	165	1	He	2373285	0.41	2452680	96.76	30	120	
Bi	209	1	He	1730085	1.32	1810473	95.56	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-4 RAW
Data File Name	019SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:31:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.008	0.008	97.81	44	0.02	10000	
B	11	45	2	NoGas	28.938	28.938	1.36	82602	0.04	300	
Na	23	45	1	He	29578.952	29578.952	8.23	29069430	0.10	500000	
Mg	24	45	1	He	11478.239	11478.239	8.70	6390132	0.18	500000	
Al	27	45	1	He	2.993	2.993	13.34	1346	0.22	200000	
K	39	45	1	He	2424.269	2424.269	8.66	1101046	0.22	500000	
Ca	44	45	1	He	68993.117	68993.117	9.38	1607044	4.29	500000	
Ti	47	45	1	He	0.204	0.204	14.65	29	0.71	2500	
V	51	45	1	He	0.135	0.135	22.86	646	0.02	10000	
Cr	52	45	1	He	0.018	0.018	168.03	2002	0.00	10000	
Mn	55	45	1	He	0.672	0.672	6.19	2178	0.03	10000	
Fe	56	45	1	He	9.373	9.373	7.34	41258	0.02	200000	
Co	59	103	1	He	0.103	0.103	14.93	1030	0.01	10000	
Ni	60	103	1	He	0.233	0.233	17.04	651	0.04	10000	
Cu	63	103	1	He	0.214	0.214	7.47	3628	0.01	10000	
Zn	66	103	1	He	0.794	0.794	14.76	1807	0.04	10000	
As	75	103	1	He	0.213	0.213	13.30	355	0.06	10000	
Se	78	103	1	He	0.170	0.170	54.42	38	0.44	10000	
Sr	88	103	1	He	93.649	93.649	2.09	463383	0.02	10000	
Mo	95	103	1	He	15.222	15.222	7.78	41179	0.04	2000	
Ag	107	103	1	He	0.003	0.003	65.72	56	0.01	300	
Cd	111	103	1	He	0.022	0.022	45.03	801	0.00	4000	
Sn	118	115	1	He	-0.163	-0.163	-0.35	241	-0.07	2000	
Sb	123	115	1	He	0.319	0.319	14.91	1990	0.02	300	
Ba	137	115	1	He	72.018	72.018	8.03	103827	0.07	10000	
W	182	165	1	He	248.491	248.491	2.07	2722891	0.01	2500	
Tl	205	209	1	He	0.032	0.032	21.78	487	0.01	5000	
Pb	208	209	1	He	0.084	0.084	17.89	1486	0.01	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1610468	1.18	1803797	89.28	30	120	
Sc	45	1	He	368770	8.46	574766	64.16	30	120	
Sc	45	2	NoGas	3319068	0.62	4296857	77.24	30	120	
Rh	103	1	He	1492683	1.93	1652712	90.32	30	120	
In	115	1	He	788106	6.26	852389	92.46	30	120	
Tb	159	1	He	2402791	2.16	2425956	99.05	30	120	
Ho	165	1	He	2459462	1.42	2452680	100.28	30	120	
Bi	209	1	He	743339	7.61	1810473	41.06	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176862/1-a
Data File Name	020_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:35:20-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.005	121.4	26	107.9	1	
B	11	45	2	NoGas	4.215	5.2	17190	4.6	20	
Na	23	45	1	He	70.872	3.6	127048	2.3	400	
Mg	24	45	1	He	59.216	5.1	46838	2.9	1000	
Al	27	45	1	He	5.430	2.3	2864	2.8	50	
K	39	45	1	He	46.226	15.6	85903	0.8	1000	
Ca	44	45	1	He	197.410	6.5	6928	1.9	1000	
Ti	47	45	1	He	0.162	34.4	32	31.6	20	
V	51	45	1	He	0.203	86.7	1256	71.9	2	
Cr	52	45	1	He	1.098	2.5	9363	6.2	2	
Mn	55	45	1	He	0.357	9.9	1680	4.8	2	
Fe	56	45	1	He	17.065	2.1	100396	4.7	50	
Co	59	103	1	He	0.007	25.8	113	15.6	1	
Ni	60	103	1	He	0.167	5.3	468	3.6	2	
Cu	63	103	1	He	1.084	9.7	8831	6.6	2	
Zn	66	103	1	He	6.259	2.6	8580	1.7	20	
As	75	103	1	He	0.344	3.3	443	2.1	2	
Se	78	103	1	He	0.068	190.9	30	27.5	2	
Sr	88	103	1	He	0.386	8.8	1947	8.2	10	
Mo	95	103	1	He	1.379	25.5	4106	21.0	2	
Ag	107	103	1	He	0.000	-50.3	24	7.9	0.2	
Cd	111	103	1	He	-0.012	-246.2	715	5.6	0.2	
Sn	118	115	1	He	0.620	10.2	2774	6.8	10	
Sb	123	115	1	He	0.386	10.7	2116	6.6	1	
Ba	137	115	1	He	0.939	1.1	1293	1.1	5	
W	182	165	1	He	21.408	23.4	221072	23.2	10	Blank Failed
Tl	205	209	1	He	0.011	10.2	639	4.3	0.5	
Pb	208	209	1	He	0.139	6.2	5188	5.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1562757	2.04	1803797	86.64	30	120	
Sc	45	1	He	512870	4.59	574766	89.23	30	120	
Sc	45	2	NoGas	3589745	0.90	4296857	83.54	30	120	
Rh	103	1	He	1425311	0.89	1652712	86.24	30	120	
In	115	1	He	743617	0.62	852389	87.24	30	120	
Tb	159	1	He	2201295	1.62	2425956	90.74	30	120	
Ho	165	1	He	2293927	0.30	2452680	93.53	30	120	
Bi	209	1	He	1727727	2.48	1810473	95.43	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176862/2-a
Data File Name	021_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:39:09-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1021.217	1021.217	4.124	4865319	2.21	1000	102.1	79.5	120.5	
B	11	2	NoGas	126.871	126.871	1.142	373085	0.68	100	126.9	79.5	120.5	LCS Failed
Na	23	1	He	10463.892	10463.892	3.081	13989874	1.81	10000	104.6	79.5	120.5	
Mg	24	1	He	10353.980	10353.980	1.905	7834380	1.06	10000	103.5	79.5	120.5	
Al	27	1	He	9465.293	9465.293	1.096	3725935	2.67	10000	94.7	79.5	120.5	
K	39	1	He	9950.713	9950.713	1.592	5966699	0.77	10000	99.5	79.5	120.5	
Ca	44	1	He	9624.847	9624.847	1.405	305263	0.98	10000	96.2	79.5	120.5	
Ti	47	1	He	100.468	100.468	0.983	18947	2.20	100	100.5	79.5	120.5	
V	51	1	He	993.447	993.447	1.794	4785592	0.55	1000	99.3	79.5	120.5	
Cr	52	1	He	1016.538	1016.538	2.168	6009206	0.53	1000	101.7	79.5	120.5	
Mn	55	1	He	1004.315	1004.315	3.058	4197917	0.74	1000	100.4	79.5	120.5	
Fe	56	1	He	10336.654	10336.654	1.709	55945024	0.70	10000	103.4	79.5	120.5	
Co	59	1	He	985.877	985.877	1.817	8665185	1.59	1000	98.6	79.5	120.5	
Ni	60	1	He	1017.188	1017.188	0.899	2273721	1.26	1000	101.7	79.5	120.5	
Cu	63	1	He	1011.315	1011.315	0.972	6030643	1.16	1000	101.1	79.5	120.5	
Zn	66	1	He	990.864	990.864	0.530	1201816	0.47	1000	99.1	79.5	120.5	
As	75	1	He	942.804	942.804	0.211	723587	0.65	1000	94.3	79.5	120.5	
Se	78	1	He	971.239	971.239	0.417	61720	0.70	1000	97.1	79.5	120.5	
Sr	88	1	He	979.396	979.396	0.214	4472263	0.65	1000	97.9	79.5	120.5	
Mo	95	1	He	107.004	107.004	0.618	263841	0.18	100	107.0	79.5	120.5	
Ag	107	1	He	103.464	103.464	1.178	881409	1.00	100	103.5	79.5	120.5	
Cd	111	1	He	1017.685	1017.685	0.203	1448729	0.56	1000	101.8	79.5	120.5	
Sn	118	1	He	1055.371	1055.371	1.666	3258825	1.54	1000	105.5	79.5	120.5	
Sb	123	1	He	102.289	102.289	0.531	335537	0.65	100	102.3	79.5	120.5	
Ba	137	1	He	997.521	997.521	1.012	1290984	0.51	1000	99.8	79.5	120.5	
W	182	1	He	102.278	102.278	0.459	1036578	0.63	100	102.3	79.5	120.5	
Tl	205	1	He	247.190	247.190	0.963	5340216	1.14	250	98.9	79.5	120.5	
Pb	208	1	He	1014.066	1014.066	0.169	28826383	0.30	1000	101.4	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1522762	2.10	1803797	84.42	30	120	
Sc	45	1	He	498876	2.34	574766	86.80	30	120	
Sc	45	2	NoGas	3569975	1.15	4296857	83.08	30	120	
Rh	103	1	He	1377496	0.44	1652712	83.35	30	120	
In	115	1	He	705215	0.70	852389	82.73	30	120	
Tb	159	1	He	2227901	0.83	2425956	91.84	30	120	
Ho	165	1	He	2272050	1.08	2452680	92.64	30	120	
Bi	209	1	He	1569295	0.40	1810473	86.68	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176862/1-a
Data File Name	022_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:42:48-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.111	30.7	533	28.9	1	
B	11	45	2	NoGas	5.431	2.3	20568	3.4	20	
Na	23	45	1	He	69.264	3.8	122066	1.3	400	
Mg	24	45	1	He	61.332	1.1	47447	2.6	1000	
Al	27	45	1	He	4.300	9.5	2351	4.6	50	
K	39	45	1	He	48.889	5.1	85667	1.5	1000	
Ca	44	45	1	He	199.841	5.6	6859	4.6	1000	
Ti	47	45	1	He	0.264	43.1	51	42.4	20	
V	51	45	1	He	0.111	138.6	755	95.8	2	
Cr	52	45	1	He	1.113	1.4	9234	1.7	2	
Mn	55	45	1	He	0.429	11.1	1955	13.0	2	
Fe	56	45	1	He	17.323	3.9	99597	6.1	50	
Co	59	103	1	He	0.101	9.9	972	9.1	1	
Ni	60	103	1	He	0.330	4.6	851	4.3	2	
Cu	63	103	1	He	1.246	9.4	9906	7.1	2	
Zn	66	103	1	He	6.864	0.8	9410	0.9	20	
As	75	103	1	He	0.497	9.2	569	6.1	2	
Se	78	103	1	He	0.504	11.1	59	6.6	2	
Sr	88	103	1	He	0.431	8.3	2175	7.5	10	
Mo	95	103	1	He	0.704	12.9	2410	9.5	2	
Ag	107	103	1	He	0.010	34.9	118	26.3	0.2	
Cd	111	103	1	He	0.203	28.4	1039	7.8	0.2	Blank Failed
Sn	118	115	1	He	1.848	21.7	6757	19.0	10	
Sb	123	115	1	He	0.674	7.9	3104	5.7	1	
Ba	137	115	1	He	1.085	6.1	1489	5.9	5	
W	182	165	1	He	2.142	5.1	24112	2.9	10	
Tl	205	209	1	He	0.187	31.3	4671	28.2	0.5	
Pb	208	209	1	He	0.243	15.7	8192	13.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1527820	2.20	1803797	84.70	30	120	
Sc	45	1	He	501317	2.65	574766	87.22	30	120	
Sc	45	2	NoGas	3560094	1.69	4296857	82.85	30	120	
Rh	103	1	He	1435938	0.47	1652712	86.88	30	120	
In	115	1	He	742133	0.23	852389	87.07	30	120	
Tb	159	1	He	2237654	1.78	2425956	92.24	30	120	
Ho	165	1	He	2270264	2.04	2452680	92.56	30	120	
Bi	209	1	He	1674636	3.30	1810473	92.50	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-4-c
Data File Name	023SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:46:40-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.042	0.042	26.74	207	0.02	10000	
B	11	45	2	NoGas	32.016	32.016	0.65	99074	0.03	300	
Na	23	45	1	He	20488.236	20488.236	2.48	27182449	0.08	500000	
Mg	24	45	1	He	8014.370	8014.370	3.59	6022005	0.13	500000	
Al	27	45	1	He	7.132	7.132	2.41	3433	0.21	200000	
K	39	45	1	He	1611.788	1611.788	1.99	1006732	0.16	500000	
Ca	44	45	1	He	45115.306	45115.306	2.78	1419185	3.18	500000	
Ti	47	45	1	He	0.251	0.251	44.28	48	0.53	2500	
V	51	45	1	He	0.411	0.411	57.57	2191	0.02	10000	
Cr	52	45	1	He	1.251	1.251	5.68	9934	0.01	10000	
Mn	55	45	1	He	0.660	0.660	11.30	2882	0.02	10000	
Fe	56	45	1	He	7.842	7.842	2.58	47405	0.02	200000	
Co	59	103	1	He	0.149	0.149	7.32	1362	0.01	10000	
Ni	60	103	1	He	0.468	0.468	6.71	1129	0.04	10000	
Cu	63	103	1	He	1.137	1.137	4.81	8875	0.01	10000	
Zn	66	103	1	He	4.504	4.504	2.09	6180	0.07	10000	
As	75	103	1	He	0.907	0.907	2.62	862	0.11	10000	
Se	78	103	1	He	0.233	0.233	3.29	40	0.59	10000	
Sr	88	103	1	He	89.905	89.905	0.36	411609	0.02	10000	
Mo	95	103	1	He	26.321	26.321	0.99	65492	0.04	2000	
Ag	107	103	1	He	0.006	0.006	81.37	74	0.01	300	
Cd	111	103	1	He	0.042	0.042	166.08	769	0.01	4000	
Sn	118	115	1	He	0.742	0.742	9.33	3078	0.02	2000	
Sb	123	115	1	He	0.936	0.936	1.95	3896	0.02	300	
Ba	137	115	1	He	69.376	69.376	1.36	91908	0.08	10000	
W	182	165	1	He	419.245	419.245	1.04	4265468	0.01	2500	
Tl	205	209	1	He	0.032	0.032	7.29	1054	0.00	5000	
Pb	208	209	1	He	0.069	0.069	12.57	2746	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1542984	1.48	1803797	85.54	30	120	
Sc	45	1	He	495515	2.09	574766	86.21	30	120	
Sc	45	2	NoGas	3616941	0.22	4296857	84.18	30	120	
Rh	103	1	He	1380763	0.69	1652712	83.55	30	120	
In	115	1	He	721796	0.47	852389	84.68	30	120	
Tb	159	1	He	2195525	0.90	2425956	90.50	30	120	
Ho	165	1	He	2285058	1.07	2452680	93.17	30	120	
Bi	209	1	He	1584624	0.40	1810473	87.53	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	024_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:50:31-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.516	2.192	237932	3.34	50	93.0	89.5	110.5	
B	11	45	2	NoGas	52.634	2.442	175447	1.47	50	105.3	89.5	110.5	
Na	23	45	1	He	25616.060	2.658	37949572	0.52	25000	102.5	89.5	110.5	
Mg	24	45	1	He	25495.275	3.188	21396286	0.59	25000	102.0	89.5	110.5	
Al	27	45	1	He	248.641	2.259	109258	1.22	250	99.5	89.5	110.5	
K	39	45	1	He	25079.458	2.817	16586378	0.21	25000	100.3	89.5	110.5	
Ca	44	45	1	He	24715.180	2.692	868631	0.23	25000	98.9	89.5	110.5	
Ti	47	45	1	He	50.422	4.367	10543	1.76	50	100.8	89.5	110.5	
V	51	45	1	He	51.002	2.342	272799	0.65	50	102.0	89.5	110.5	
Cr	52	45	1	He	51.395	2.388	339816	0.56	50	102.8	89.5	110.5	
Mn	55	45	1	He	252.886	2.326	1173015	0.60	250	101.2	89.5	110.5	
Fe	56	45	1	He	12918.178	2.524	77562781	1.19	12500	103.3	89.5	110.5	
Co	59	103	1	He	50.748	1.936	480324	1.14	50	101.5	89.5	110.5	
Ni	60	103	1	He	50.810	2.056	122369	1.22	50	101.6	89.5	110.5	
Cu	63	103	1	He	51.354	1.199	331860	0.43	50	102.7	89.5	110.5	
Zn	66	103	1	He	51.527	2.870	68014	2.37	50	103.1	89.5	110.5	
As	75	103	1	He	50.482	0.918	41887	0.60	50	101.0	89.5	110.5	
Se	78	103	1	He	51.996	2.358	3583	1.99	50	104.0	89.5	110.5	
Sr	88	103	1	He	50.413	1.335	247994	0.49	50	100.8	89.5	110.5	
Mo	95	103	1	He	51.702	1.431	137604	1.68	50	103.4	89.5	110.5	
Ag	107	103	1	He	52.507	1.173	481683	0.68	50	105.0	89.5	110.5	
Cd	111	103	1	He	52.411	0.490	81065	0.79	50	104.8	89.5	110.5	
Sn	118	115	1	He	50.093	1.407	173918	1.13	50	100.2	89.5	110.5	
Sb	123	115	1	He	52.533	1.194	193308	0.83	50	105.1	89.5	110.5	
Ba	137	115	1	He	51.054	0.717	73980	0.76	50	102.1	89.5	110.5	
W	182	165	1	He	53.701	0.334	585698	1.54	50	107.4	89.5	110.5	
Tl	205	209	1	He	49.174	2.968	1156283	0.87	50	98.3	89.5	110.5	
Pb	208	209	1	He	50.819	2.474	1572878	0.30	50	101.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1633705	1.25	1803797	90.57	30	120	
Sc	45	1	He	553547	2.96	574766	96.31	30	120	
Sc	45	2	NoGas	3974103	1.27	4296857	92.49	30	120	
Rh	103	1	He	1483353	0.85	1652712	89.75	30	120	
In	115	1	He	789448	0.48	852389	92.62	30	120	
Tb	159	1	He	2360098	0.34	2425956	97.29	30	120	
Ho	165	1	He	2439601	1.23	2452680	99.47	30	120	
Bi	209	1	He	1708419	2.35	1810473	94.36	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	025_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:54:22-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.028	16.4	152	15.2	1	
B	11	45	2	NoGas	1.575	17.5	10681	8.8	20	
Na	23	45	1	He	5.036	27.8	38422	3.9	400	
Mg	24	45	1	He	2.197	19.3	2645	11.7	1000	
Al	27	45	1	He	0.900	33.1	1079	12.7	50	
K	39	45	1	He	13.784	10.1	69154	0.8	1000	
Ca	44	45	1	He	2.200	34.4	611	5.2	1000	
Ti	47	45	1	He	0.105	7.8	22	8.7	20	
V	51	45	1	He	0.033	91.3	418	38.6	2	
Cr	52	45	1	He	0.000	-57446.9	2804	7.0	2	
Mn	55	45	1	He	0.043	10.6	348	5.5	2	
Fe	56	45	1	He	13.338	32.9	82989	29.4	50	
Co	59	103	1	He	0.005	42.3	109	23.0	1	
Ni	60	103	1	He	0.006	89.6	110	13.9	2	
Cu	63	103	1	He	0.002	1089.1	2436	7.5	2	
Zn	66	103	1	He	0.007	498.7	833	6.4	20	
As	75	103	1	He	-0.023	-59.4	171	5.6	2	
Se	78	103	1	He	0.071	54.5	34	8.3	2	
Sr	88	103	1	He	0.009	61.1	189	17.7	10	
Mo	95	103	1	He	0.671	25.7	2602	19.8	2	
Ag	107	103	1	He	0.004	40.6	72	21.3	0.2	
Cd	111	103	1	He	-0.002	-1410.5	822	4.9	0.2	
Sn	118	115	1	He	0.234	22.9	1689	12.0	10	
Sb	123	115	1	He	0.250	7.0	1831	3.8	1	
Ba	137	115	1	He	0.021	47.4	46	34.6	5	
W	182	165	1	He	1.794	10.2	21994	8.9	10	
Tl	205	209	1	He	0.044	8.8	1491	5.7	0.5	
Pb	208	209	1	He	0.020	27.5	1557	11.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1707924	0.85	1803797	94.68	30	120	
Sc	45	1	He	535624	1.28	574766	93.19	30	120	
Sc	45	2	NoGas	4045138	1.73	4296857	94.14	30	120	
Rh	103	1	He	1606323	1.61	1652712	97.19	30	120	
In	115	1	He	826938	0.86	852389	97.01	30	120	
Tb	159	1	He	2390257	0.81	2425956	98.53	30	120	
Ho	165	1	He	2423193	1.61	2452680	98.80	30	120	
Bi	209	1	He	1823342	0.82	1810473	100.71	30	120	

Sample Report

Sample Table

Sample Name	LIN 2
Data File Name	027SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:15:52-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.015	0.015	8.35	81	0.02	10000	
B	11	45	2	NoGas	0.740	0.740	17.25	7720	0.01	300	
Na	23	45	1	He	-0.458	-0.458	-199.83	32378	0.00	500000	
Mg	24	45	1	He	0.057	0.057	132.55	967	0.01	500000	
Al	27	45	1	He	9.652	9.652	0.46	5067	0.19	200000	
K	39	45	1	He	2.898	2.898	138.17	65928	0.00	500000	
Ca	44	45	1	He	0.945	0.945	23.81	603	0.16	500000	
Ti	47	45	1	He	298.148	298.148	3.45	63967	0.47	2500	
V	51	45	1	He	-0.040	-0.040	-154.48	47	-0.09	10000	
Cr	52	45	1	He	-0.040	-0.040	-48.64	2698	0.00	10000	
Mn	55	45	1	He	0.068	0.068	25.68	487	0.01	10000	
Fe	56	45	1	He	0.075	0.075	85.40	6470	0.00	200000	
Co	59	103	1	He	0.009	0.009	37.20	136	0.01	10000	
Ni	60	103	1	He	0.060	0.060	23.18	241	0.02	10000	
Cu	63	103	1	He	-0.075	-0.075	-16.65	1832	0.00	10000	
Zn	66	103	1	He	0.168	0.168	28.25	1026	0.02	10000	
As	75	103	1	He	-0.022	-0.022	-100.63	166	-0.01	10000	
Se	78	103	1	He	-0.001	-0.001	-9362.61	28	0.00	10000	
Sr	88	103	1	He	-0.001	-0.001	-861.88	129	0.00	10000	
Mo	95	103	1	He	295.076	295.076	0.71	818420	0.04	2000	
Ag	107	103	1	He	309.990	309.990	0.93	2974897	0.01	300	>LDR
Cd	111	103	1	He	0.861	0.861	13.95	2177	0.04	4000	
Sn	118	115	1	He	299.941	299.941	0.87	1076909	0.03	2000	
Sb	123	115	1	He	248.726	248.726	3.74	946605	0.03	300	
Ba	137	115	1	He	0.144	0.144	5.65	230	0.06	10000	
W	182	165	1	He	311.460	311.460	1.72	3327136	0.01	2500	
Tl	205	209	1	He	0.000	0.000	-62.01	388	0.00	5000	
Pb	208	209	1	He	0.006	0.006	39.16	1084	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1658320	0.53	1803797	91.93	30	120	
Sc	45	1	He	568220	5.33	574766	98.86	30	120	
Sc	45	2	NoGas	3934103	1.84	4296857	91.56	30	120	
Rh	103	1	He	1551682	0.89	1652712	93.89	30	120	
In	115	1	He	819490	1.27	852389	96.14	30	120	
Tb	159	1	He	2328348	0.75	2425956	95.98	30	120	
Ho	165	1	He	2398783	1.19	2452680	97.80	30	120	
Bi	209	1	He	1820572	1.07	1810473	100.56	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	028_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:19:41-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.009	73.9	52	68.9	1	
B	11	45	2	NoGas	0.144	89.4	5812	6.3	20	
Na	23	45	1	He	0.469	132.7	31172	1.2	400	
Mg	24	45	1	He	-0.475	-11.9	467	10.4	1000	
Al	27	45	1	He	9.644	2.9	4666	3.1	50	
K	39	45	1	He	6.394	38.4	63017	3.9	1000	
Ca	44	45	1	He	16.348	8.5	1067	3.6	1000	
Ti	47	45	1	He	0.272	54.9	54	52.1	20	
V	51	45	1	He	0.039	18.1	437	9.5	2	
Cr	52	45	1	He	0.009	127.4	2795	1.0	2	
Mn	55	45	1	He	0.178	5.4	933	2.8	2	
Fe	56	45	1	He	-0.047	-57.9	5280	3.1	50	
Co	59	103	1	He	0.001	91.5	63	18.2	1	
Ni	60	103	1	He	0.017	95.5	131	30.5	2	
Cu	63	103	1	He	-0.060	-6.1	1919	1.1	2	
Zn	66	103	1	He	0.859	8.8	1953	5.3	20	
As	75	103	1	He	-0.055	-116.6	136	40.8	2	
Se	78	103	1	He	-0.037	-130.5	25	14.0	2	
Sr	88	103	1	He	0.003	86.7	149	9.3	10	
Mo	95	103	1	He	4.774	15.4	13778	14.5	2	Blank Failed
Ag	107	103	1	He	0.021	24.8	227	21.4	0.2	
Cd	111	103	1	He	0.000	8053.4	792	1.2	0.2	
Sn	118	115	1	He	1.119	7.3	4756	6.4	10	
Sb	123	115	1	He	7.969	21.1	30601	20.9	1	Blank Failed
Ba	137	115	1	He	0.023	34.8	47	25.8	5	
W	182	165	1	He	3.428	14.3	38960	14.1	10	
Tl	205	209	1	He	-0.004	-40.4	292	14.3	0.5	
Pb	208	209	1	He	0.000	15138.8	872	7.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1660894	0.77	1803797	92.08	30	120	
Sc	45	1	He	523629	1.65	574766	91.10	30	120	
Sc	45	2	NoGas	3936636	0.94	4296857	91.62	30	120	
Rh	103	1	He	1540110	0.15	1652712	93.19	30	120	
In	115	1	He	804036	0.42	852389	94.33	30	120	
Tb	159	1	He	2337884	1.71	2425956	96.37	30	120	
Ho	165	1	He	2381142	0.80	2452680	97.08	30	120	
Bi	209	1	He	1779493	0.74	1810473	98.29	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	029_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:23:32-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.520	3.299	245583	3.65	50	93.0	89.5	110.5	
B	11	45	2	NoGas	51.492	2.053	174649	2.75	50	103.0	89.5	110.5	
Na	23	45	1	He	25755.478	3.667	38030344	0.37	25000	103.0	89.5	110.5	
Mg	24	45	1	He	25921.702	3.129	21687573	0.56	25000	103.7	89.5	110.5	
Al	27	45	1	He	252.964	2.720	110793	1.04	250	101.2	89.5	110.5	
K	39	45	1	He	25495.072	2.931	16808272	0.65	25000	102.0	89.5	110.5	
Ca	44	45	1	He	25157.706	3.084	881391	0.31	25000	100.6	89.5	110.5	
Ti	47	45	1	He	52.769	3.996	11000	0.68	50	105.5	89.5	110.5	
V	51	45	1	He	50.867	3.048	271238	1.90	50	101.7	89.5	110.5	
Cr	52	45	1	He	51.354	3.531	338430	0.75	50	102.7	89.5	110.5	
Mn	55	45	1	He	254.796	3.077	1178068	0.30	250	101.9	89.5	110.5	
Fe	56	45	1	He	12953.331	3.185	77521321	0.22	12500	103.6	89.5	110.5	
Co	59	103	1	He	50.530	0.801	478202	0.72	50	101.1	89.5	110.5	
Ni	60	103	1	He	50.838	1.383	122414	0.18	50	101.7	89.5	110.5	
Cu	63	103	1	He	51.156	1.541	330516	0.47	50	102.3	89.5	110.5	
Zn	66	103	1	He	51.239	1.593	67636	2.25	50	102.5	89.5	110.5	
As	75	103	1	He	50.758	1.275	42105	0.18	50	101.5	89.5	110.5	
Se	78	103	1	He	52.001	1.740	3583	0.36	50	104.0	89.5	110.5	
Sr	88	103	1	He	50.576	2.041	248729	0.80	50	101.2	89.5	110.5	
Mo	95	103	1	He	52.745	1.692	140334	1.73	50	105.5	89.5	110.5	
Ag	107	103	1	He	51.753	1.358	474658	0.06	50	103.5	89.5	110.5	
Cd	111	103	1	He	52.210	1.502	80735	0.23	50	104.4	89.5	110.5	
Sn	118	115	1	He	49.672	1.466	172940	1.35	50	99.3	89.5	110.5	
Sb	123	115	1	He	55.156	1.544	203470	1.15	50	110.3	89.5	110.5	
Ba	137	115	1	He	50.394	2.103	73219	1.64	50	100.8	89.5	110.5	
W	182	165	1	He	50.320	1.426	539759	1.22	50	100.6	89.5	110.5	
Tl	205	209	1	He	48.973	4.206	1144816	0.75	50	97.9	89.5	110.5	
Pb	208	209	1	He	50.479	3.399	1553403	0.70	50	101.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1686338	1.57	1803797	93.49	30	120	
Sc	45	1	He	551902	3.43	574766	96.02	30	120	
Sc	45	2	NoGas	4040222	1.60	4296857	94.03	30	120	
Rh	103	1	He	1483119	1.41	1652712	89.74	30	120	
In	115	1	He	791609	0.46	852389	92.87	30	120	
Tb	159	1	He	2358420	1.13	2425956	97.22	30	120	
Ho	165	1	He	2398719	0.44	2452680	97.80	30	120	
Bi	209	1	He	1699299	3.48	1810473	93.86	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	030_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:27:23-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.018	61.4	96	58.1	1	
B	11	45	2	NoGas	1.177	10.4	9332	3.9	20	
Na	23	45	1	He	2.356	39.0	34764	3.0	400	
Mg	24	45	1	He	0.943	65.9	1634	30.1	1000	
Al	27	45	1	He	0.638	11.7	972	4.3	50	
K	39	45	1	He	11.716	18.9	68169	1.0	1000	
Ca	44	45	1	He	0.315	822.4	549	16.1	1000	
Ti	47	45	1	He	0.049	82.4	11	75.5	20	
V	51	45	1	He	0.091	41.1	716	27.3	2	
Cr	52	45	1	He	-0.006	-895.7	2777	11.3	2	
Mn	55	45	1	He	0.012	51.0	213	12.8	2	
Fe	56	45	1	He	9.622	32.5	61787	28.5	50	
Co	59	103	1	He	0.002	85.2	77	26.5	1	
Ni	60	103	1	He	0.005	40.8	106	4.8	2	
Cu	63	103	1	He	-0.074	-15.4	1901	4.2	2	
Zn	66	103	1	He	-0.001	-1835.6	821	4.2	20	
As	75	103	1	He	-0.045	-39.9	151	10.7	2	
Se	78	103	1	He	0.061	79.0	33	10.8	2	
Sr	88	103	1	He	0.001	299.8	144	12.7	10	
Mo	95	103	1	He	0.959	24.9	3424	19.9	2	
Ag	107	103	1	He	0.007	28.6	97	19.2	0.2	
Cd	111	103	1	He	0.013	165.5	846	4.0	0.2	
Sn	118	115	1	He	0.440	15.4	2423	9.8	10	
Sb	123	115	1	He	1.268	7.5	5711	6.2	1	CCB Failed
Ba	137	115	1	He	0.010	90.3	28	48.5	5	
W	182	165	1	He	1.129	16.7	14793	13.8	10	
Tl	205	209	1	He	0.032	22.1	1187	15.7	0.5	
Pb	208	209	1	He	0.009	34.5	1186	9.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1690080	1.49	1803797	93.70	30	120	
Sc	45	1	He	538291	1.06	574766	93.65	30	120	
Sc	45	2	NoGas	4028241	1.92	4296857	93.75	30	120	
Rh	103	1	He	1604725	0.15	1652712	97.10	30	120	
In	115	1	He	823231	0.31	852389	96.58	30	120	
Tb	159	1	He	2387734	0.88	2425956	98.42	30	120	
Ho	165	1	He	2417889	0.14	2452680	98.58	30	120	
Bi	209	1	He	1793356	0.94	1810473	99.05	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	lb 240-176803/1-d@10
Data File Name	031_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:31:20-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.017	52.0	93	50.0	1	
B	11	45	2	NoGas	2.845	6.2	15225	3.4	20	
Na	23	45	1	He	154217.073	0.8	230387295	0.9	400	Blank Failed
Mg	24	45	1	He	5.166	6.9	5275	6.1	1000	
Al	27	45	1	He	11.547	0.9	5813	1.2	50	
K	39	45	1	He	28.861	11.2	82115	2.8	1000	
Ca	44	45	1	He	117.951	5.3	4738	3.9	1000	
Ti	47	45	1	He	0.079	64.8	18	60.3	20	
V	51	45	1	He	0.025	76.2	390	26.0	2	
Cr	52	45	1	He	0.317	8.6	5019	4.1	2	
Mn	55	45	1	He	0.255	9.2	1355	8.5	2	
Fe	56	45	1	He	10.513	1.5	69610	1.9	50	
Co	59	103	1	He	0.007	18.3	119	11.3	1	
Ni	60	103	1	He	0.372	7.1	984	5.8	2	
Cu	63	103	1	He	0.575	1.3	5940	1.8	2	
Zn	66	103	1	He	2.579	12.2	4135	9.3	20	
As	75	103	1	He	-0.002	-628.2	175	8.4	2	
Se	78	103	1	He	0.130	43.8	36	11.9	2	
Sr	88	103	1	He	0.344	7.5	1821	6.8	10	
Mo	95	103	1	He	0.617	6.3	2265	3.6	2	
Ag	107	103	1	He	0.010	31.4	118	23.6	0.2	
Cd	111	103	1	He	0.056	20.2	851	2.5	0.2	
Sn	118	115	1	He	0.208	19.4	1559	9.2	10	
Sb	123	115	1	He	0.867	4.1	4106	3.2	1	
Ba	137	115	1	He	0.954	5.2	1429	5.0	5	
W	182	165	1	He	0.340	10.2	6294	4.3	10	
Tl	205	209	1	He	0.004	54.3	478	10.5	0.5	
Pb	208	209	1	He	0.185	1.9	6720	2.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1680864	0.63	1803797	93.18	30	120	
Sc	45	1	He	558311	0.76	574766	97.14	30	120	
Sc	45	2	NoGas	4144906	0.59	4296857	96.46	30	120	
Rh	103	1	He	1486996	0.98	1652712	89.97	30	120	
In	115	1	He	808893	0.26	852389	94.90	30	120	
Tb	159	1	He	2352053	1.05	2425956	96.95	30	120	
Ho	165	1	He	2415370	2.24	2452680	98.48	30	120	
Bi	209	1	He	1751328	2.32	1810473	96.73	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176851/2-a10
Data File Name	032_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:35:13-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.019	58.9	107	57.0	1	
B	11	45	2	NoGas	0.547	8.8	7509	3.0	20	
Na	23	45	1	He	21.812	14.7	65253	8.1	400	
Mg	24	45	1	He	-0.381	-1.3	578	0.0	1000	
Al	27	45	1	He	8.197	3.3	4344	2.0	50	
K	39	45	1	He	6.207	6.7	67158	1.1	1000	
Ca	44	45	1	He	4.662	46.3	725	10.4	1000	
Ti	47	45	1	He	0.016	150.9	4	114.6	20	
V	51	45	1	He	0.040	339.6	473	155.5	2	
Cr	52	45	1	He	0.125	18.7	3755	4.3	2	
Mn	55	45	1	He	0.069	24.5	486	16.2	2	
Fe	56	45	1	He	3.176	3.3	25197	3.0	50	
Co	59	103	1	He	0.000	304.9	58	24.0	1	
Ni	60	103	1	He	0.010	26.9	120	5.6	2	
Cu	63	103	1	He	0.046	237.3	2743	28.7	2	
Zn	66	103	1	He	0.568	3.6	1628	3.4	20	
As	75	103	1	He	-0.002	-1208.5	189	12.6	2	
Se	78	103	1	He	-0.018	-465.6	28	22.1	2	
Sr	88	103	1	He	0.001	113.8	146	7.4	10	
Mo	95	103	1	He	-0.027	-93.1	597	10.3	2	
Ag	107	103	1	He	0.002	121.1	56	53.8	0.2	
Cd	111	103	1	He	0.011	109.4	845	2.9	0.2	
Sn	118	115	1	He	0.088	83.0	1170	22.3	10	
Sb	123	115	1	He	0.598	9.1	3199	6.6	1	
Ba	137	115	1	He	0.024	40.5	50	30.5	5	
W	182	165	1	He	0.174	15.8	4649	7.4	10	
Tl	205	209	1	He	-0.003	-37.0	333	6.9	0.5	
Pb	208	209	1	He	0.013	22.6	1318	7.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1719855	0.02	1803797	95.35	30	120	
Sc	45	1	He	559193	0.73	574766	97.29	30	120	
Sc	45	2	NoGas	4159884	0.93	4296857	96.81	30	120	
Rh	103	1	He	1606999	2.04	1652712	97.23	30	120	
In	115	1	He	835275	0.59	852389	97.99	30	120	
Tb	159	1	He	2399693	0.94	2425956	98.92	30	120	
Ho	165	1	He	2488815	0.97	2452680	101.47	30	120	
Bi	209	1	He	1827082	0.52	1810473	100.92	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176851/3-a@10
Data File Name	033_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:39:04-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	101.610	101.610	1.109	540411	1.60	1000	10.2	79.5	120.5	LCS Failed
B	11	2	NoGas	13.531	13.531	2.181	51064	2.51	100	13.5	79.5	120.5	LCS Failed
Na	23	1	He	152633.288	152633.288	1.332	227392443	1.24	10000	1526.3	79.5	120.5	LCS Failed
Mg	24	1	He	1069.106	1069.106	1.671	903834	1.41	10000	10.7	79.5	120.5	LCS Failed
Al	27	1	He	1051.279	1051.279	1.377	462475	1.03	10000	10.5	79.5	120.5	LCS Failed
K	39	1	He	1067.110	1067.110	2.221	770225	0.84	10000	10.7	79.5	120.5	LCS Failed
Ca	44	1	He	1055.472	1055.472	1.970	37861	1.34	10000	10.6	79.5	120.5	LCS Failed
Ti	47	1	He	10.970	10.970	4.922	2310	5.15	100	11.0	79.5	120.5	LCS Failed
V	51	1	He	103.828	103.828	1.287	558568	1.08	1000	10.4	79.5	120.5	LCS Failed
Cr	52	1	He	105.106	105.106	1.448	696245	0.99	1000	10.5	79.5	120.5	LCS Failed
Mn	55	1	He	103.510	103.510	1.416	483227	0.99	1000	10.4	79.5	120.5	LCS Failed
Fe	56	1	He	1065.130	1065.130	2.399	6439505	0.09	10000	10.7	79.5	120.5	LCS Failed
Co	59	1	He	104.219	104.219	1.215	989918	1.22	1000	10.4	79.5	120.5	LCS Failed
Ni	60	1	He	103.808	103.808	1.361	250822	1.54	1000	10.4	79.5	120.5	LCS Failed
Cu	63	1	He	104.420	104.420	1.118	674880	1.35	1000	10.4	79.5	120.5	LCS Failed
Zn	66	1	He	106.385	106.385	1.481	140115	1.34	1000	10.6	79.5	120.5	LCS Failed
As	75	1	He	103.550	103.550	1.942	86040	2.35	1000	10.4	79.5	120.5	LCS Failed
Se	78	1	He	106.815	106.815	2.331	7359	2.72	1000	10.7	79.5	120.5	LCS Failed
Sr	88	1	He	103.133	103.133	1.461	509031	1.86	1000	10.3	79.5	120.5	LCS Failed
Mo	95	1	He	10.968	10.968	2.582	29788	2.68	100	11.0	79.5	120.5	LCS Failed
Ag	107	1	He	10.465	10.465	1.659	96361	1.63	100	10.5	79.5	120.5	LCS Failed
Cd	111	1	He	106.320	106.320	1.058	164241	1.43	1000	10.6	79.5	120.5	LCS Failed
Sn	118	1	He	102.173	102.173	1.308	358680	1.11	1000	10.2	79.5	120.5	LCS Failed
Sb	123	1	He	10.898	10.898	1.795	41319	2.74	100	10.9	79.5	120.5	LCS Failed
Ba	137	1	He	103.052	103.052	1.239	151337	1.71	1000	10.3	79.5	120.5	LCS Failed
W	182	1	He	9.971	9.971	0.620	110530	1.86	100	10.0	79.5	120.5	LCS Failed
Tl	205	1	He	23.751	23.751	1.524	570442	1.07	250	9.5	79.5	120.5	LCS Failed
Pb	208	1	He	102.075	102.075	1.391	3224726	1.02	1000	10.2	79.5	120.5	LCS Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1698998	1.42	1803797	94.19	30	120	
Sc	45	1	He	556870	2.36	574766	96.89	30	120	
Sc	45	2	NoGas	4130465	0.57	4296857	96.13	30	120	
Rh	103	1	He	1488575	1.10	1652712	90.07	30	120	
In	115	1	He	800171	1.70	852389	93.87	30	120	
Tb	159	1	He	2359317	1.87	2425956	97.25	30	120	
Ho	165	1	He	2431030	1.54	2452680	99.12	30	120	
Bi	209	1	He	1744000	2.43	1810473	96.33	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-e@10
Data File Name	034SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:42:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.018	0.018	24.40	100	0.02	10000	
B	11	45	2	NoGas	12.051	12.051	1.95	49121	0.02	300	
Na	23	45	1	He	152841.175	152841.175	1.74	230966317	0.07	500000	
Mg	24	45	1	He	2231.584	2231.584	1.32	1912812	0.12	500000	
Al	27	45	1	He	11.379	11.379	0.72	5807	0.20	200000	
K	39	45	1	He	101.922	101.922	3.56	132230	0.08	500000	
Ca	44	45	1	He	133449.920	133449.920	0.14	4785783	2.79	500000	
Ti	47	45	1	He	0.157	0.157	46.18	34	0.46	2500	
V	51	45	1	He	1.432	1.432	3.69	8070	0.02	10000	
Cr	52	45	1	He	0.170	0.170	21.99	4092	0.00	10000	
Mn	55	45	1	He	1881.152	1881.152	0.66	8906061	0.02	10000	
Fe	56	45	1	He	1.574	1.574	18.12	15620	0.01	200000	
Co	59	103	1	He	1.004	1.004	2.81	9614	0.01	10000	
Ni	60	103	1	He	2.277	2.277	3.00	5609	0.04	10000	
Cu	63	103	1	He	0.238	0.238	2.37	3788	0.01	10000	
Zn	66	103	1	He	1.331	1.331	6.90	2515	0.05	10000	
As	75	103	1	He	0.163	0.163	4.29	314	0.05	10000	
Se	78	103	1	He	0.204	0.204	35.79	41	0.50	10000	
Sr	88	103	1	He	2915.294	2915.294	1.18	14431121	0.02	10000	
Mo	95	103	1	He	0.134	0.134	19.35	984	0.01	2000	
Ag	107	103	1	He	0.002	0.002	100.93	47	0.00	300	
Cd	111	103	1	He	0.093	0.093	14.31	912	0.01	4000	
Sn	118	115	1	He	0.707	0.707	12.22	3338	0.02	2000	
Sb	123	115	1	He	0.417	0.417	5.94	2427	0.02	300	
Ba	137	115	1	He	1.240	1.240	1.45	1860	0.07	10000	
W	182	165	1	He	0.264	0.264	7.51	5535	0.00	2500	
Tl	205	209	1	He	0.020	0.020	36.62	847	0.00	5000	
Pb	208	209	1	He	0.018	0.018	29.06	1380	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1760524	1.49	1803797	97.60	30	120	
Sc	45	1	He	564819	1.22	574766	98.27	30	120	
Sc	45	2	NoGas	4401855	0.85	4296857	102.44	30	120	
Rh	103	1	He	1493540	2.65	1652712	90.37	30	120	
In	115	1	He	811715	1.12	852389	95.23	30	120	
Tb	159	1	He	2382040	1.83	2425956	98.19	30	120	
Ho	165	1	He	2441411	1.78	2452680	99.54	30	120	
Bi	209	1	He	1709283	1.35	1810473	94.41	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-e@50
Data File Name	035SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:46:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.007	0.007	68.69	41	0.02	10000	
B	11	45	2	NoGas	2.146	2.146	7.09	13135	0.02	300	
Na	23	45	1	He	31152.450	31152.450	0.11	47396885	0.07	500000	
Mg	24	45	1	He	441.000	441.000	0.52	381053	0.12	500000	
Al	27	45	1	He	9.469	9.469	4.47	4984	0.19	200000	
K	39	45	1	He	25.118	25.118	10.67	81025	0.03	500000	
Ca	44	45	1	He	26436.258	26436.258	0.44	954293	2.77	500000	
Ti	47	45	1	He	0.062	0.062	75.73	14	0.43	2500	
V	51	45	1	He	0.223	0.223	40.96	1486	0.01	10000	
Cr	52	45	1	He	0.045	0.045	43.29	3277	0.00	10000	
Mn	55	45	1	He	389.981	389.981	1.94	1857453	0.02	10000	
Fe	56	45	1	He	0.158	0.158	36.84	6990	0.00	200000	
Co	59	103	1	He	0.198	0.198	1.31	2060	0.01	10000	
Ni	60	103	1	He	0.451	0.451	8.95	1255	0.04	10000	
Cu	63	103	1	He	-0.014	-0.014	-140.67	2297	0.00	10000	
Zn	66	103	1	He	0.226	0.226	23.97	1131	0.02	10000	
As	75	103	1	He	0.033	0.033	32.08	219	0.02	10000	
Se	78	103	1	He	0.002	0.002	2477.86	29	0.01	10000	
Sr	88	103	1	He	572.858	572.858	0.35	3017411	0.02	10000	
Mo	95	103	1	He	-0.094	-0.094	-14.02	402	-0.02	2000	
Ag	107	103	1	He	0.000	0.000	1207.98	32	0.00	300	
Cd	111	103	1	He	0.054	0.054	36.95	906	0.01	4000	
Sn	118	115	1	He	0.111	0.111	29.44	1256	0.01	2000	
Sb	123	115	1	He	0.198	0.198	11.73	1647	0.01	300	
Ba	137	115	1	He	0.245	0.245	15.91	389	0.06	10000	
W	182	165	1	He	0.096	0.096	24.49	3767	0.00	2500	
Tl	205	209	1	He	-0.001	-0.001	-310.76	367	0.00	5000	
Pb	208	209	1	He	0.005	0.005	30.59	1038	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1729087	0.59	1803797	95.86	30	120	
Sc	45	1	He	568268	1.79	574766	98.87	30	120	
Sc	45	2	NoGas	4230438	0.88	4296857	98.45	30	120	
Rh	103	1	He	1588966	1.16	1652712	96.14	30	120	
In	115	1	He	835306	0.67	852389	98.00	30	120	
Tb	159	1	He	2429937	0.59	2425956	100.16	30	120	
Ho	165	1	He	2478541	1.66	2452680	101.05	30	120	
Bi	209	1	He	1813732	1.08	1810473	100.18	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-e@10
Data File Name	036SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:50:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1123.212	1123.212	0.52	5868346	0.02	10000	
B	11	45	2	NoGas	131.743	131.743	1.76	448173	0.03	300	
Na	23	45	1	He	158275.279	158275.279	3.41	232885939	0.07	500000	
Mg	24	45	1	He	12434.062	12434.062	3.73	10372012	0.12	500000	
Al	27	45	1	He	10161.649	10161.649	4.71	4407561	0.23	200000	
K	39	45	1	He	10422.981	10422.981	4.88	6885273	0.15	500000	
Ca	44	45	1	He	139299.843	139299.843	3.40	4863447	2.86	500000	
Ti	47	45	1	He	104.358	104.358	4.92	21686	0.48	2500	
V	51	45	1	He	1043.763	1043.763	3.61	5543522	0.02	10000	
Cr	52	45	1	He	1022.183	1022.183	4.13	6661429	0.02	10000	
Mn	55	45	1	He	2821.415	2821.415	3.26	13005478	0.02	10000	
Fe	56	45	1	He	10387.029	10387.029	3.43	61981711	0.02	200000	
Co	59	103	1	He	1059.106	1059.106	0.34	9463869	0.01	10000	
Ni	60	103	1	He	1078.857	1078.857	0.71	2451629	0.04	10000	
Cu	63	103	1	He	1039.676	1039.676	0.28	6302761	0.02	10000	
Zn	66	103	1	He	1033.769	1033.769	0.10	1274683	0.08	10000	
As	75	103	1	He	1066.602	1066.602	0.24	832185	0.13	10000	
Se	78	103	1	He	1085.876	1085.876	0.51	70150	1.55	10000	
Sr	88	103	1	He	4022.232	4022.232	0.72	18671942	0.02	10000	
Mo	95	103	1	He	110.865	110.865	2.19	277892	0.04	2000	
Ag	107	103	1	He	104.937	104.937	0.82	908838	0.01	300	
Cd	111	103	1	He	1089.582	1089.582	2.04	1576837	0.07	4000	
Sn	118	115	1	He	1104.527	1104.527	0.79	3647990	0.03	2000	
Sb	123	115	1	He	105.167	105.167	0.45	368959	0.03	300	
Ba	137	115	1	He	1034.687	1034.687	0.05	1432303	0.07	10000	
W	182	165	1	He	98.727	98.727	1.41	1048185	0.01	2500	
Tl	205	209	1	He	263.703	263.703	1.77	5728340	0.00	5000	
Pb	208	209	1	He	1076.344	1076.344	1.82	30765444	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1668975	0.16	1803797	92.53	30	120	
Sc	45	1	He	550342	3.66	574766	95.75	30	120	
Sc	45	2	NoGas	4131710	0.37	4296857	96.16	30	120	
Rh	103	1	He	1400401	0.14	1652712	84.73	30	120	
In	115	1	He	754278	0.52	852389	88.49	30	120	
Tb	159	1	He	2362573	0.35	2425956	97.39	30	120	
Ho	165	1	He	2380069	1.83	2452680	97.04	30	120	
Bi	209	1	He	1578154	1.08	1810473	87.17	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-f ms@10
Data File Name	037SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:54:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	105.538	105.538	1.43	558218	0.02	10000	
B	11	45	2	NoGas	24.120	24.120	2.91	89217	0.03	300	
Na	23	45	1	He	153297.825	153297.825	0.81	232515620	0.07	500000	
Mg	24	45	1	He	3246.528	3246.528	0.81	2792521	0.12	500000	
Al	27	45	1	He	1036.939	1036.939	0.53	464445	0.22	200000	
K	39	45	1	He	1134.128	1134.128	1.47	829499	0.14	500000	
Ca	44	45	1	He	134586.339	134586.339	1.37	4843902	2.78	500000	
Ti	47	45	1	He	10.687	10.687	5.33	2291	0.47	2500	
V	51	45	1	He	104.233	104.233	1.25	570915	0.02	10000	
Cr	52	45	1	He	102.007	102.007	0.70	688057	0.01	10000	
Mn	55	45	1	He	1955.423	1955.423	0.80	9291040	0.02	10000	
Fe	56	45	1	He	1059.117	1059.117	0.44	6520176	0.02	200000	
Co	59	103	1	He	104.839	104.839	0.68	986660	0.01	10000	
Ni	60	103	1	He	105.930	105.930	0.74	253587	0.04	10000	
Cu	63	103	1	He	103.940	103.940	1.45	665614	0.02	10000	
Zn	66	103	1	He	105.069	105.069	0.84	137121	0.08	10000	
As	75	103	1	He	106.141	106.141	0.40	87374	0.12	10000	
Se	78	103	1	He	109.184	109.184	1.02	7452	1.47	10000	
Sr	88	103	1	He	3048.245	3048.245	0.29	14902969	0.02	10000	
Mo	95	103	1	He	12.951	12.951	0.76	34738	0.04	2000	
Ag	107	103	1	He	10.435	10.435	2.01	95208	0.01	300	
Cd	111	103	1	He	104.610	104.610	0.25	160125	0.07	4000	
Sn	118	115	1	He	105.201	105.201	1.74	374677	0.03	2000	
Sb	123	115	1	He	11.211	11.211	2.03	43094	0.03	300	
Ba	137	115	1	He	100.958	100.958	1.08	150416	0.07	10000	
W	182	165	1	He	11.527	11.527	4.13	128647	0.01	2500	
Tl	205	209	1	He	24.237	24.237	1.70	566205	0.00	5000	
Pb	208	209	1	He	101.555	101.555	0.64	3121190	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1689510	1.07	1803797	93.66	30	120	
Sc	45	1	He	566836	0.41	574766	98.62	30	120	
Sc	45	2	NoGas	4255014	1.05	4296857	99.03	30	120	
Rh	103	1	He	1474866	0.50	1652712	89.24	30	120	
In	115	1	He	811756	0.08	852389	95.23	30	120	
Tb	159	1	He	2383950	0.91	2425956	98.27	30	120	
Ho	165	1	He	2455930	0.69	2452680	100.13	30	120	
Bi	209	1	He	1696413	2.17	1810473	93.70	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-g msd@10
Data File Name	038SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:57:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	103.577	103.577	2.22	549315	0.02	10000	
B	11	45	2	NoGas	23.981	23.981	2.28	87944	0.03	300	
Na	23	45	1	He	158057.038	158057.038	1.43	234293768	0.07	500000	
Mg	24	45	1	He	3350.247	3350.247	1.93	2816164	0.12	500000	
Al	27	45	1	He	1048.977	1048.977	1.32	459167	0.23	200000	
K	39	45	1	He	1144.717	1144.717	1.57	817651	0.14	500000	
Ca	44	45	1	He	136410.818	136410.818	0.68	4798344	2.84	500000	
Ti	47	45	1	He	10.570	10.570	9.12	2214	0.48	2500	
V	51	45	1	He	103.838	103.838	0.84	555885	0.02	10000	
Cr	52	45	1	He	103.199	103.199	0.97	680303	0.02	10000	
Mn	55	45	1	He	2033.559	2033.559	1.64	9443096	0.02	10000	
Fe	56	45	1	He	1061.033	1061.033	1.68	6383666	0.02	200000	
Co	59	103	1	He	106.091	106.091	0.53	969250	0.01	10000	
Ni	60	103	1	He	107.573	107.573	1.00	249998	0.04	10000	
Cu	63	103	1	He	105.519	105.519	0.57	655920	0.02	10000	
Zn	66	103	1	He	106.394	106.394	1.71	134778	0.08	10000	
As	75	103	1	He	106.916	106.916	0.26	85437	0.13	10000	
Se	78	103	1	He	109.413	109.413	2.24	7249	1.51	10000	
Sr	88	103	1	He	3188.768	3188.768	0.61	15133988	0.02	10000	
Mo	95	103	1	He	11.702	11.702	2.10	30527	0.04	2000	
Ag	107	103	1	He	10.485	10.485	0.41	92866	0.01	300	
Cd	111	103	1	He	105.848	105.848	0.40	157272	0.07	4000	
Sn	118	115	1	He	103.782	103.782	1.01	359653	0.03	2000	
Sb	123	115	1	He	10.995	10.995	1.37	41136	0.03	300	
Ba	137	115	1	He	102.583	102.583	1.62	148701	0.07	10000	
W	182	165	1	He	10.052	10.052	0.86	111519	0.01	2500	
Tl	205	209	1	He	24.350	24.350	1.82	557144	0.00	5000	
Pb	208	209	1	He	102.510	102.510	3.15	3084779	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1694012	0.86	1803797	93.91	30	120	
Sc	45	1	He	554051	1.46	574766	96.40	30	120	
Sc	45	2	NoGas	4216430	0.97	4296857	98.13	30	120	
Rh	103	1	He	1431719	0.28	1652712	86.63	30	120	
In	115	1	He	789823	0.37	852389	92.66	30	120	
Tb	159	1	He	2353732	1.08	2425956	97.02	30	120	
Ho	165	1	He	2433463	0.67	2452680	99.22	30	120	
Bi	209	1	He	1661348	1.41	1810473	91.76	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176851/3-a@10
Data File Name	039_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:01:44-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1180.541	1180.541	2.719	5759506	1.19	1000	118.1	79.5	120.5	
B	11	2	NoGas	150.816	150.816	1.515	485769	0.42	100	150.8	79.5	120.5	LCS Failed
Na	23	1	He	1500747.454	1500747.454	1.280	2133557071	0.78	10000	15007.5	79.5	120.5	LCS Failed
Mg	24	1	He	10700.591	10700.591	0.677	8626686	1.00	10000	107.0	79.5	120.5	
Al	27	1	He	10337.429	10337.429	0.825	4334265	0.66	10000	103.4	79.5	120.5	
K	39	1	He	10643.195	10643.195	1.228	6795026	0.43	10000	106.4	79.5	120.5	
Ca	44	1	He	10279.484	10279.484	1.133	347301	0.74	10000	102.8	79.5	120.5	
Ti	47	1	He	106.444	106.444	2.051	21383	2.02	100	106.4	79.5	120.5	
V	51	1	He	1055.626	1055.626	0.944	5417883	0.49	1000	105.6	79.5	120.5	
Cr	52	1	He	1032.598	1032.598	0.379	6504413	1.40	1000	103.3	79.5	120.5	
Mn	55	1	He	1018.477	1018.477	0.761	4536677	0.68	1000	101.8	79.5	120.5	
Fe	56	1	He	10327.741	10327.741	1.454	59552691	0.97	10000	103.3	79.5	120.5	
Co	59	1	He	1095.741	1095.741	1.023	8971614	1.27	1000	109.6	79.5	120.5	
Ni	60	1	He	1115.191	1115.191	0.653	2322033	0.96	1000	111.5	79.5	120.5	
Cu	63	1	He	1085.197	1085.197	1.387	6027855	1.49	1000	108.5	79.5	120.5	
Zn	66	1	He	1078.699	1078.699	0.373	1218696	0.55	1000	107.9	79.5	120.5	
As	75	1	He	1175.858	1175.858	0.679	840588	0.37	1000	117.6	79.5	120.5	
Se	78	1	He	1263.240	1263.240	1.562	74769	1.33	1000	126.3	79.5	120.5	LCS Failed
Sr	88	1	He	1171.440	1171.440	1.607	4982743	1.57	1000	117.1	79.5	120.5	
Mo	95	1	He	125.385	125.385	0.459	287898	0.27	100	125.4	79.5	120.5	LCS Failed
Ag	107	1	He	105.873	105.873	0.883	840174	0.87	100	105.9	79.5	120.5	
Cd	111	1	He	1079.111	1079.111	0.529	1430904	0.36	1000	107.9	79.5	120.5	
Sn	118	1	He	1122.265	1122.265	0.791	3461871	0.82	1000	112.2	79.5	120.5	
Sb	123	1	He	109.693	109.693	1.201	359392	0.57	100	109.7	79.5	120.5	
Ba	137	1	He	1069.389	1069.389	1.038	1382584	0.46	1000	106.9	79.5	120.5	
W	182	1	He	102.482	102.482	0.372	1031753	1.01	100	102.5	79.5	120.5	
Tl	205	1	He	261.419	261.419	0.588	5251564	1.22	250	104.6	79.5	120.5	
Pb	208	1	He	1074.447	1074.447	0.797	28399619	0.14	1000	107.4	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1558934	1.67	1803797	86.43	30	120	
Sc	45	1	He	531420	1.38	574766	92.46	30	120	
Sc	45	2	NoGas	3918790	1.91	4296857	91.20	30	120	
Rh	103	1	He	1283151	0.31	1652712	77.64	30	120	
In	115	1	He	704498	0.66	852389	82.65	30	120	
Tb	159	1	He	2163312	0.09	2425956	89.17	30	120	
Ho	165	1	He	2256979	1.38	2452680	92.02	30	120	
Bi	209	1	He	1459227	0.66	1810473	80.60	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	040_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:05:26-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.540	4.864	265392	2.23	50	97.1	89.5	110.5	
B	11	45	2	NoGas	52.367	2.721	188473	1.39	50	104.7	89.5	110.5	
Na	23	45	1	He	25748.965	2.338	39270976	0.50	25000	103.0	89.5	110.5	
Mg	24	45	1	He	25915.595	3.433	22388757	1.22	25000	103.7	89.5	110.5	
Al	27	45	1	He	258.242	2.401	116779	0.11	250	103.3	89.5	110.5	
K	39	45	1	He	25993.985	3.309	17693591	1.04	25000	104.0	89.5	110.5	
Ca	44	45	1	He	25026.431	2.239	905516	0.22	25000	100.1	89.5	110.5	
Ti	47	45	1	He	51.010	4.526	10982	3.24	50	102.0	89.5	110.5	
V	51	45	1	He	50.891	2.222	280218	0.49	50	101.8	89.5	110.5	
Cr	52	45	1	He	50.955	2.593	346831	0.39	50	101.9	89.5	110.5	
Mn	55	45	1	He	253.493	2.492	1210389	0.21	250	101.4	89.5	110.5	
Fe	56	45	1	He	12886.000	2.894	79637897	0.51	12500	103.1	89.5	110.5	
Co	59	103	1	He	50.178	3.062	488005	0.17	50	100.4	89.5	110.5	
Ni	60	103	1	He	50.153	3.563	124100	0.53	50	100.3	89.5	110.5	
Cu	63	103	1	He	50.665	3.142	336434	0.14	50	101.3	89.5	110.5	
Zn	66	103	1	He	51.636	2.866	70036	0.41	50	103.3	89.5	110.5	
As	75	103	1	He	51.054	1.790	43535	1.47	50	102.1	89.5	110.5	
Se	78	103	1	He	52.545	2.154	3721	1.81	50	105.1	89.5	110.5	
Sr	88	103	1	He	51.376	2.766	259695	0.49	50	102.8	89.5	110.5	
Mo	95	103	1	He	52.082	1.803	142462	2.12	50	104.2	89.5	110.5	
Ag	107	103	1	He	50.902	2.790	479814	0.44	50	101.8	89.5	110.5	
Cd	111	103	1	He	52.183	3.046	82932	0.22	50	104.4	89.5	110.5	
Sn	118	115	1	He	51.466	1.822	184329	1.54	50	102.9	89.5	110.5	
Sb	123	115	1	He	52.321	0.491	198643	0.65	50	104.6	89.5	110.5	
Ba	137	115	1	He	50.101	1.153	74903	1.33	50	100.2	89.5	110.5	
W	182	165	1	He	49.618	0.981	545539	1.30	50	99.2	89.5	110.5	
Tl	205	209	1	He	47.794	1.012	1164183	0.78	50	95.6	89.5	110.5	
Pb	208	209	1	He	49.320	0.328	1581193	0.24	50	98.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1748074	2.75	1803797	96.91	30	120	
Sc	45	1	He	569786	2.45	574766	99.13	30	120	
Sc	45	2	NoGas	4290450	1.24	4296857	99.85	30	120	
Rh	103	1	He	1525047	3.27	1652712	92.28	30	120	
In	115	1	He	814484	0.27	852389	95.55	30	120	
Tb	159	1	He	2391371	1.16	2425956	98.57	30	120	
Ho	165	1	He	2458477	0.97	2452680	100.24	30	120	
Bi	209	1	He	1768968	0.54	1810473	97.71	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	041_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:09:16-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.047	39.3	267	41.7	1	
B	11	45	2	NoGas	1.914	5.6	12586	4.8	20	
Na	23	45	1	He	87.437	6.3	163297	4.3	400	
Mg	24	45	1	He	0.923	48.3	1682	21.9	1000	
Al	27	45	1	He	7.287	1.3	3942	1.7	50	
K	39	45	1	He	3.913	68.8	65592	2.1	1000	
Ca	44	45	1	He	5.995	7.4	772	1.6	1000	
Ti	47	45	1	He	0.069	35.8	16	32.7	20	
V	51	45	1	He	0.047	41.4	506	20.0	2	
Cr	52	45	1	He	0.042	57.8	3204	4.3	2	
Mn	55	45	1	He	0.084	5.4	556	3.3	2	
Fe	56	45	1	He	12.177	33.5	79657	30.3	50	
Co	59	103	1	He	0.019	1.9	252	1.5	1	
Ni	60	103	1	He	0.013	84.9	129	20.9	2	
Cu	63	103	1	He	0.118	34.5	3310	8.7	2	
Zn	66	103	1	He	0.436	10.7	1473	4.9	20	
As	75	103	1	He	-0.023	-97.5	174	12.3	2	
Se	78	103	1	He	0.105	17.6	37	4.3	2	
Sr	88	103	1	He	0.051	23.4	419	16.2	10	
Mo	95	103	1	He	0.749	26.0	2889	20.1	2	
Ag	107	103	1	He	0.005	20.4	79	12.9	0.2	
Cd	111	103	1	He	0.125	20.2	1057	2.9	0.2	
Sn	118	115	1	He	0.709	16.3	3519	11.9	10	
Sb	123	115	1	He	0.434	10.7	2619	6.7	1	
Ba	137	115	1	He	0.039	15.8	74	12.9	5	
W	182	165	1	He	1.007	18.2	13840	14.6	10	
Tl	205	209	1	He	0.059	24.4	1916	18.4	0.5	
Pb	208	209	1	He	0.048	7.0	2530	3.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1774176	3.39	1803797	98.36	30	120	
Sc	45	1	He	558939	0.76	574766	97.25	30	120	
Sc	45	2	NoGas	4314480	1.84	4296857	100.41	30	120	
Rh	103	1	He	1643202	1.24	1652712	99.42	30	120	
In	115	1	He	853873	0.42	852389	100.17	30	120	
Tb	159	1	He	2407580	0.84	2425956	99.24	30	120	
Ho	165	1	He	2481647	0.07	2452680	101.18	30	120	
Bi	209	1	He	1854076	0.97	1810473	102.41	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	042CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:13:08-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.904	0.904	3.079	5075	4.97	1	90.4	69.5	130.5	
B	11	2	NoGas	20.290	20.290	1.369	77648	1.51	20	101.5	69.5	130.5	
Na	23	1	He	1146.883	1146.883	0.547	1824489	0.70	1000	114.7	69.5	130.5	
Mg	24	1	He	1071.153	1071.153	0.672	949077	0.23	1000	107.1	69.5	130.5	
Al	27	1	He	52.355	52.355	0.431	24861	0.46	50	104.7	69.5	130.5	
K	39	1	He	1055.997	1055.997	0.861	799591	0.65	1000	105.6	69.5	130.5	
Ca	44	1	He	1037.850	1037.850	2.125	39031	2.33	1000	103.8	69.5	130.5	
Ti	47	1	He	11.049	11.049	4.184	2438	3.76	10	110.5	69.5	130.5	
V	51	1	He	5.035	5.035	0.986	28643	0.53	5	100.7	69.5	130.5	
Cr	52	1	He	2.315	2.315	2.793	19059	2.62	2	115.7	69.5	130.5	
Mn	55	1	He	5.287	5.287	3.133	26030	3.45	5	105.7	69.5	130.5	
Fe	56	1	He	107.358	107.358	1.419	685928	1.37	100	107.4	69.5	130.5	
Co	59	1	He	1.002	1.002	3.353	10513	2.51	1	100.2	69.5	130.5	
Ni	60	1	He	2.225	2.225	3.650	6002	2.47	2	111.3	69.5	130.5	
Cu	63	1	He	2.105	2.105	3.616	17366	1.81	2	105.2	69.5	130.5	
Zn	66	1	He	20.614	20.614	1.538	30524	0.31	20	103.1	69.5	130.5	
As	75	1	He	4.984	4.984	1.015	4739	2.29	5	99.7	69.5	130.5	
Se	78	1	He	5.635	5.635	3.212	455	3.46	5	112.7	69.5	130.5	
Sr	88	1	He	9.902	9.902	1.300	53855	0.32	10	99.0	69.5	130.5	
Mo	95	1	He	10.430	10.430	0.932	31175	0.78	10	104.3	69.5	130.5	
Ag	107	1	He	1.055	1.055	1.429	10706	0.71	1	105.5	69.5	130.5	
Cd	111	1	He	1.074	1.074	2.620	2658	0.79	1	107.4	69.5	130.5	
Sn	118	1	He	10.479	10.479	3.522	40227	3.20	10	104.8	69.5	130.5	
Sb	123	1	He	2.076	2.076	5.038	9170	4.99	2	103.8	69.5	130.5	
Ba	137	1	He	5.141	5.141	1.589	8109	2.00	5	102.8	69.5	130.5	
W	182	1	He	9.973	9.973	3.055	113376	2.23	10	99.7	69.5	130.5	
Tl	205	1	He	1.959	1.959	1.473	50397	1.41	2	98.0	69.5	130.5	
Pb	208	1	He	1.067	1.067	3.303	36725	3.36	1	106.7	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1791672	2.04	1803797	99.33	30	120	
Sc	45	1	He	583517	0.46	574766	101.52	30	120	
Sc	45	2	NoGas	4348117	0.25	4296857	101.19	30	120	
Rh	103	1	He	1636646	1.35	1652712	99.03	30	120	
In	115	1	He	857951	0.46	852389	100.65	30	120	
Tb	159	1	He	2435256	1.07	2425956	100.38	30	120	
Ho	165	1	He	2493469	0.77	2452680	101.66	30	120	
Bi	209	1	He	1853699	0.32	1810473	102.39	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176863/1-a@2
Data File Name	043_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:16:58-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.057	31.8	326	31.7	1	
B	11	45	2	NoGas	2.334	9.4	13813	4.4	20	
Na	23	45	1	He	81.286	2.1	155595	2.1	400	
Mg	24	45	1	He	32.923	0.8	29087	1.3	1000	
Al	27	45	1	He	10.374	2.5	5352	1.8	50	
K	39	45	1	He	21.388	7.5	77952	0.3	1000	
Ca	44	45	1	He	192.191	4.1	7446	2.9	1000	
Ti	47	45	1	He	0.370	32.6	80	32.5	20	
V	51	45	1	He	0.373	53.2	2283	46.5	2	
Cr	52	45	1	He	1.681	2.9	14186	1.1	2	
Mn	55	45	1	He	1.116	4.8	5444	4.4	2	
Fe	56	45	1	He	17.026	2.2	110234	3.2	50	
Co	59	103	1	He	0.029	20.8	343	18.1	1	
Ni	60	103	1	He	0.242	3.0	710	2.5	2	
Cu	63	103	1	He	0.982	8.7	9070	6.0	2	
Zn	66	103	1	He	4.264	6.2	6719	5.0	20	
As	75	103	1	He	0.362	9.4	505	5.3	2	
Se	78	103	1	He	0.144	42.4	39	11.2	2	
Sr	88	103	1	He	0.396	8.4	2207	8.4	10	
Mo	95	103	1	He	0.220	37.5	1282	17.5	2	
Ag	107	103	1	He	0.001	192.9	42	52.6	0.2	
Cd	111	103	1	He	0.151	2.0	1057	0.5	0.2	
Sn	118	115	1	He	22.138	2.7	80762	2.4	10	Blank Failed
Sb	123	115	1	He	0.341	22.0	2174	12.9	1	
Ba	137	115	1	He	0.821	3.7	1256	3.5	5	
W	182	165	1	He	0.546	12.2	8584	9.7	10	
Tl	205	209	1	He	0.060	25.8	1949	20.9	0.5	
Pb	208	209	1	He	0.351	6.8	12747	7.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1803396	0.86	1803797	99.98	30	120	
Sc	45	1	He	564216	1.25	574766	98.16	30	120	
Sc	45	2	NoGas	4242019	1.79	4296857	98.72	30	120	
Rh	103	1	He	1575630	0.59	1652712	95.34	30	120	
In	115	1	He	824714	0.46	852389	96.75	30	120	
Tb	159	1	He	2406862	0.08	2425956	99.21	30	120	
Ho	165	1	He	2432842	1.33	2452680	99.19	30	120	
Bi	209	1	He	1859649	0.77	1810473	102.72	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176863/3-a@2
Data File Name	044LCSS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:20:48-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	546.624	546.624	3.057	2924885	0.97	500	109.3	78.6	110.5	
B	11	2	NoGas	62.891	62.891	2.098	212827	2.58	50	125.8	79.5	120.5	LCSS Failed
Na	23	1	He	5267.811	5267.811	0.818	7703521	1.74	5000	105.4	79.5	120.5	
Mg	24	1	He	5340.941	5340.941	1.387	4410679	1.08	5000	106.8	79.5	120.5	
Al	27	1	He	5091.250	5091.250	0.812	2187062	1.69	5000	101.8	79.5	120.5	
K	39	1	He	5205.907	5205.907	1.483	3436158	2.08	5000	104.1	79.5	120.5	
Ca	44	1	He	5061.663	5061.663	1.440	175443	1.03	5000	101.2	79.5	120.5	
Ti	47	1	He	51.232	51.232	1.450	10542	1.31	50	102.5	79.5	120.5	
V	51	1	He	520.872	520.872	0.997	2738596	1.56	500	104.2	71.5	110.5	
Cr	52	1	He	523.030	523.030	0.548	3376557	2.54	500	104.6	69.5	110.5	
Mn	55	1	He	529.104	529.104	1.414	2414156	1.30	500	105.8	79.5	120.5	
Fe	56	1	He	5306.679	5306.679	1.139	31348690	1.58	5000	106.1	79.5	120.5	
Co	59	1	He	491.095	491.095	2.651	4753952	0.56	500	98.2	73.9	110.5	
Ni	60	1	He	487.972	487.972	1.447	1201577	1.39	500	97.6	74.9	110.5	
Cu	63	1	He	508.504	508.504	3.236	3340461	1.31	500	101.7	72.6	110.5	
Zn	66	1	He	481.933	481.933	2.532	644193	0.80	500	96.4	71.5	113.4	
As	75	1	He	467.017	467.017	1.853	394890	0.86	500	93.4	73.4	110.5	
Se	78	1	He	471.029	471.029	1.974	32986	1.69	500	94.2	64.6	110.5	
Sr	88	1	He	508.804	508.804	2.268	2559044	0.80	500	101.8	79.5	120.5	
Mo	95	1	He	53.953	53.953	1.921	146850	0.78	50	107.9	29.5	140.5	
Ag	107	1	He	50.645	50.645	1.778	475255	0.92	50	101.3	59.5	114.5	
Cd	111	1	He	490.690	490.690	1.704	769830	0.99	500	98.1	73.5	110.5	
Sn	118	1	He	558.275	558.275	0.237	1901228	0.13	500	111.7	79.5	120.5	
Sb	123	1	He	50.320	50.320	0.756	182422	0.64	50	100.6	67.5	113.4	
Ba	137	1	He	495.249	495.249	0.425	706765	0.29	500	99.0	69.5	110.5	
W	182	1	He	48.935	48.935	0.934	526725	1.00	50	97.9	74.6	125.4	
Tl	205	1	He	120.157	120.157	1.643	2897840	1.16	125	96.1	70.6	110.5	
Pb	208	1	He	486.935	486.935	0.724	15452682	0.95	500	97.4	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1710007	2.05	1803797	94.80	30	120	
Sc	45	1	He	544410	2.48	574766	94.72	30	120	
Sc	45	2	NoGas	4054027	0.81	4296857	94.35	30	120	
Rh	103	1	He	1517786	2.70	1652712	91.84	30	120	
In	115	1	He	777598	0.26	852389	91.23	30	120	
Tb	159	1	He	2330696	0.75	2425956	96.07	30	120	
Ho	165	1	He	2406665	0.36	2452680	98.12	30	120	
Bi	209	1	He	1752004	1.67	1810473	96.77	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@2
Data File Name	045SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:24:24-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.143	1.143	6.60	5664	0.02	10000	
B	11	45	2	NoGas	21.146	21.146	1.25	121162	0.02	300	
Na	23	45	1	He	811.573	811.573	0.92	2014877	0.04	500000	
Mg	24	45	1	He	2819.857	2819.857	1.33	3866874	0.07	500000	
Al	27	45	1	He	17706.894	17706.894	0.90	12625012	0.14	200000	
K	39	45	1	He	124.628	124.628	3.63	235954	0.05	500000	
Ca	44	45	1	He	787165.533	787165.533	1.29	45161652	1.74	500000	>LDR
Ti	47	45	1	He	44672.256	44672.256	1.32	15259694	0.29	2500	>LDR
V	51	45	1	He	3694.843	3694.843	1.52	32246935	0.01	10000	
Cr	52	45	1	He	1651.828	1651.828	2.19	17689022	0.01	10000	
Mn	55	45	1	He	5450.127	5450.127	1.08	41283339	0.01	10000	
Fe	56	45	1	He	198513.944	198513.944	0.85	1946565469	0.01	200000	
Co	59	103	1	He	45.318	45.318	0.58	372666	0.01	10000	
Ni	60	103	1	He	93.912	93.912	1.38	196435	0.05	10000	
Cu	63	103	1	He	129.763	129.763	0.60	725562	0.02	10000	
Zn	66	103	1	He	592.883	592.883	1.01	672969	0.09	10000	
As	75	103	1	He	17.218	17.218	1.20	12513	0.14	10000	
Se	78	103	1	He	5.095	5.095	6.45	326	1.56	10000	
Sr	88	103	1	He	28060.450	28060.450	1.10	119860271	0.02	10000	>LDR
Mo	95	103	1	He	19.910	19.910	1.35	46369	0.04	2000	
Ag	107	103	1	He	1.830	1.830	7.90	14612	0.01	300	
Cd	111	103	1	He	9.005	9.005	5.79	12650	0.07	4000	
Sn	118	115	1	He	75.530	75.530	0.81	239508	0.03	2000	
Sb	123	115	1	He	1.005	1.005	0.24	4128	0.02	300	
Ba	137	115	1	He	62.881	62.881	1.94	83345	0.08	10000	
W	182	165	1	He	37.282	37.282	1.38	380253	0.01	2500	
Tl	205	209	1	He	0.212	0.212	15.21	4544	0.00	5000	
Pb	208	209	1	He	110.881	110.881	0.45	2913467	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1581593	1.62	1803797	87.68	30	120	
Sc	45	1	He	903727	1.12	574766	157.23	30	120	ISTD Failed
Sc	45	2	NoGas	6531167	1.33	4296857	152.00	30	120	ISTD Failed
Rh	103	1	He	1288657	0.82	1652712	77.97	30	120	
In	115	1	He	722126	0.19	852389	84.72	30	120	
Tb	159	1	He	2210046	2.05	2425956	91.10	30	120	
Ho	165	1	He	2277071	0.91	2452680	92.84	30	120	
Bi	209	1	He	1450223	0.38	1810473	80.10	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-j@10
Data File Name	046SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:28:08-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.263	0.263	3.62	1311	0.02	10000	
B	11	45	2	NoGas	6.750	6.750	2.61	30341	0.02	300	
Na	23	45	1	He	260.979	260.979	0.78	457752	0.06	500000	
Mg	24	45	1	He	870.336	870.336	0.64	799841	0.11	500000	
Al	27	45	1	He	5545.922	5545.922	1.21	2648157	0.21	200000	
K	39	45	1	He	38.953	38.953	9.48	96254	0.04	500000	
Ca	44	45	1	He	242934.059	242934.059	1.29	9332495	2.60	500000	
Ti	47	45	1	He	13914.419	13914.419	1.66	3182436	0.44	2500	>LDR
V	51	45	1	He	1171.678	1171.678	2.10	6847179	0.02	10000	
Cr	52	45	1	He	527.872	527.872	0.74	3787498	0.01	10000	
Mn	55	45	1	He	1723.812	1723.812	1.08	8742989	0.02	10000	
Fe	56	45	1	He	64108.917	64108.917	0.76	420929281	0.02	200000	
Co	59	103	1	He	8.845	8.845	0.65	81993	0.01	10000	
Ni	60	103	1	He	18.663	18.663	1.63	44055	0.04	10000	
Cu	63	103	1	He	25.967	25.967	0.94	165340	0.02	10000	
Zn	66	103	1	He	121.547	121.547	0.68	156043	0.08	10000	
As	75	103	1	He	2.909	2.909	2.19	2526	0.12	10000	
Se	78	103	1	He	0.856	0.856	7.27	83	1.03	10000	
Sr	88	103	1	He	5237.359	5237.359	0.92	25207120	0.02	10000	
Mo	95	103	1	He	3.599	3.599	3.61	9944	0.04	2000	
Ag	107	103	1	He	0.318	0.318	1.58	2887	0.01	300	
Cd	111	103	1	He	1.570	1.570	11.85	3103	0.05	4000	
Sn	118	115	1	He	15.029	15.029	2.87	51846	0.03	2000	
Sb	123	115	1	He	0.239	0.239	12.67	1679	0.01	300	
Ba	137	115	1	He	13.015	13.015	1.31	18544	0.07	10000	
W	182	165	1	He	7.669	7.669	0.75	86822	0.01	2500	
Tl	205	209	1	He	0.035	0.035	7.94	1248	0.00	5000	
Pb	208	209	1	He	20.995	20.995	0.11	673296	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1586930	0.59	1803797	87.98	30	120	
Sc	45	1	He	605098	0.93	574766	105.28	30	120	
Sc	45	2	NoGas	4429995	0.77	4296857	103.10	30	120	
Rh	103	1	He	1451890	0.49	1652712	87.85	30	120	
In	115	1	He	775890	1.07	852389	91.03	30	120	
Tb	159	1	He	2381427	0.34	2425956	98.16	30	120	
Ho	165	1	He	2464880	0.45	2452680	100.50	30	120	
Bi	209	1	He	1768118	0.27	1810473	97.66	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@2
Data File Name	047SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:31:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.045	1.045	5.38	4627	0.02	10000	
B	11	45	2	NoGas	20.219	20.219	0.48	107404	0.02	300	
Na	23	45	1	He	818.727	818.727	1.41	1941545	0.04	500000	
Mg	24	45	1	He	2820.090	2820.090	0.99	3695097	0.08	500000	
Al	27	45	1	He	17151.717	17151.717	0.94	11684310	0.15	200000	
K	39	45	1	He	122.264	122.264	3.05	223024	0.05	500000	
Ca	44	45	1	He	778765.557	778765.557	1.63	42686900	1.82	500000	>LDR
Ti	47	45	1	He	44478.002	44478.002	1.42	14516773	0.31	2500	>LDR
V	51	45	1	He	3728.224	3728.224	1.34	31089928	0.01	10000	
Cr	52	45	1	He	1667.698	1667.698	1.28	17065163	0.01	10000	
Mn	55	45	1	He	5414.027	5414.027	0.42	39184185	0.01	10000	
Fe	56	45	1	He	199405.669	199405.669	0.36	1868187730	0.01	200000	
Co	59	103	1	He	45.223	45.223	0.89	364765	0.01	10000	
Ni	60	103	1	He	93.377	93.377	0.76	191581	0.05	10000	
Cu	63	103	1	He	129.375	129.375	0.64	709534	0.02	10000	
Zn	66	103	1	He	585.548	585.548	0.43	651928	0.09	10000	
As	75	103	1	He	16.593	16.593	0.96	11833	0.14	10000	
Se	78	103	1	He	4.370	4.370	4.03	277	1.58	10000	
Sr	88	103	1	He	27043.881	27043.881	1.91	113306338	0.02	10000	>LDR
Mo	95	103	1	He	19.400	19.400	1.50	44326	0.04	2000	
Ag	107	103	1	He	2.214	2.214	0.76	17328	0.01	300	
Cd	111	103	1	He	10.848	10.848	2.15	14813	0.07	4000	
Sn	118	115	1	He	75.698	75.698	1.72	229413	0.03	2000	
Sb	123	115	1	He	0.913	0.913	1.78	3652	0.03	300	
Ba	137	115	1	He	64.428	64.428	0.49	81617	0.08	10000	
W	182	165	1	He	38.643	38.643	0.94	388219	0.01	2500	
Tl	205	209	1	He	0.124	0.124	11.23	2716	0.00	5000	
Pb	208	209	1	He	112.023	112.023	0.54	2868180	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1413045	0.26	1803797	78.34	30	120	
Sc	45	1	He	863418	0.37	574766	150.22	30	120	ISTD Failed
Sc	45	2	NoGas	6034112	0.38	4296857	140.43	30	120	ISTD Failed
Rh	103	1	He	1263931	0.25	1652712	76.48	30	120	
In	115	1	He	690185	0.59	852389	80.97	30	120	
Tb	159	1	He	2173236	0.90	2425956	89.58	30	120	
Ho	165	1	He	2243293	0.62	2452680	91.46	30	120	
Bi	209	1	He	1413134	0.18	1810473	78.05	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@10
Data File Name	048SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:35:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.237	0.237	4.66	1096	0.02	10000	
B	11	45	2	NoGas	6.408	6.408	2.42	27184	0.02	300	
Na	23	45	1	He	261.446	261.446	0.82	436170	0.06	500000	
Mg	24	45	1	He	869.063	869.063	0.14	759749	0.11	500000	
Al	27	45	1	He	5440.408	5440.408	1.10	2471234	0.22	200000	
K	39	45	1	He	40.223	40.223	3.02	92446	0.04	500000	
Ca	44	45	1	He	238429.139	238429.139	1.46	8713138	2.74	500000	
Ti	47	45	1	He	13732.917	13732.917	1.77	2987896	0.46	2500	>LDR
V	51	45	1	He	1185.742	1185.742	0.07	6592036	0.02	10000	
Cr	52	45	1	He	539.328	539.328	1.05	3680971	0.01	10000	
Mn	55	45	1	He	1714.507	1714.507	1.31	8272114	0.02	10000	
Fe	56	45	1	He	63613.230	63613.230	1.38	397292633	0.02	200000	
Co	59	103	1	He	8.801	8.801	1.43	79718	0.01	10000	
Ni	60	103	1	He	18.221	18.221	2.28	42026	0.04	10000	
Cu	63	103	1	He	25.645	25.645	1.16	159576	0.02	10000	
Zn	66	103	1	He	118.510	118.510	0.31	148678	0.08	10000	
As	75	103	1	He	2.781	2.781	1.98	2367	0.12	10000	
Se	78	103	1	He	0.791	0.791	19.46	77	1.02	10000	
Sr	88	103	1	He	5112.913	5112.913	1.41	24044544	0.02	10000	
Mo	95	103	1	He	3.581	3.581	1.93	9671	0.04	2000	
Ag	107	103	1	He	0.317	0.317	8.35	2806	0.01	300	
Cd	111	103	1	He	1.589	1.589	7.08	3059	0.05	4000	
Sn	118	115	1	He	15.152	15.152	0.98	50416	0.03	2000	
Sb	123	115	1	He	0.178	0.178	16.98	1407	0.01	300	
Ba	137	115	1	He	12.818	12.818	1.71	17623	0.07	10000	
W	182	165	1	He	7.700	7.700	1.41	83894	0.01	2500	
Tl	205	209	1	He	0.024	0.024	6.38	918	0.00	5000	
Pb	208	209	1	He	21.514	21.514	2.30	655538	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1471874	2.62	1803797	81.60	30	120	
Sc	45	1	He	575589	0.47	574766	100.14	30	120	
Sc	45	2	NoGas	4137730	1.02	4296857	96.30	30	120	
Rh	103	1	He	1418670	0.11	1652712	85.84	30	120	
In	115	1	He	748604	0.54	852389	87.82	30	120	
Tb	159	1	He	2318206	0.18	2425956	95.56	30	120	
Ho	165	1	He	2372269	0.84	2452680	96.72	30	120	
Bi	209	1	He	1680675	2.41	1810473	92.83	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@2
Data File Name	049SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:39:21-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.187	1.187	8.94	4956	0.02	10000	
B	11	45	2	NoGas	19.846	19.846	3.01	98471	0.02	300	
Na	23	45	1	He	825.274	825.274	1.47	1839582	0.04	500000	
Mg	24	45	1	He	2833.932	2833.932	0.99	3490989	0.08	500000	
Al	27	45	1	He	16844.074	16844.074	1.31	10787690	0.16	200000	
K	39	45	1	He	122.339	122.339	1.45	209755	0.06	500000	
Ca	44	45	1	He	772882.872	772882.872	0.91	39830014	1.94	500000	>LDR
Ti	47	45	1	He	44166.021	44166.021	1.32	13552353	0.33	2500	>LDR
V	51	45	1	He	3734.148	3734.148	1.00	29275970	0.01	10000	
Cr	52	45	1	He	1692.062	1692.062	0.38	16278779	0.01	10000	
Mn	55	45	1	He	5398.330	5398.330	1.08	36731325	0.01	10000	
Fe	56	45	1	He	199700.915	199700.915	1.13	1758950615	0.01	200000	
Co	59	103	1	He	44.608	44.608	0.11	345143	0.01	10000	
Ni	60	103	1	He	92.867	92.867	0.22	182774	0.05	10000	
Cu	63	103	1	He	127.612	127.612	0.39	671374	0.02	10000	
Zn	66	103	1	He	575.355	575.355	0.28	614495	0.09	10000	
As	75	103	1	He	15.997	15.997	1.14	10948	0.15	10000	
Se	78	103	1	He	4.282	4.282	4.30	261	1.64	10000	
Sr	88	103	1	He	26458.186	26458.186	0.68	106335947	0.02	10000	>LDR
Mo	95	103	1	He	19.414	19.414	0.39	42553	0.05	2000	
Ag	107	103	1	He	2.226	2.226	2.12	16715	0.01	300	
Cd	111	103	1	He	10.225	10.225	7.18	13428	0.08	4000	
Sn	118	115	1	He	76.503	76.503	1.19	219149	0.03	2000	
Sb	123	115	1	He	0.814	0.814	4.05	3151	0.03	300	
Ba	137	115	1	He	64.004	64.004	0.75	76638	0.08	10000	
W	182	165	1	He	38.248	38.248	1.81	367382	0.01	2500	
Tl	205	209	1	He	0.108	0.108	3.00	2310	0.00	5000	
Pb	208	209	1	He	111.399	111.399	0.40	2726503	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1332912	0.46	1803797	73.89	30	120	
Sc	45	1	He	811779	0.87	574766	141.24	30	120	ISTD Failed
Sc	45	2	NoGas	5628807	1.23	4296857	131.00	30	120	ISTD Failed
Rh	103	1	He	1212444	0.38	1652712	73.36	30	120	
In	115	1	He	652363	0.27	852389	76.53	30	120	
Tb	159	1	He	2065113	0.48	2425956	85.13	30	120	
Ho	165	1	He	2144946	1.24	2452680	87.45	30	120	
Bi	209	1	He	1350873	0.52	1810473	74.61	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-j@2
Data File Name	050SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:43:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1059.722	1059.722	1.21	4402547	0.02	10000	
B	11	45	2	NoGas	89.475	89.475	1.68	415821	0.02	300	
Na	23	45	1	He	7156.648	7156.648	1.19	15341000	0.05	500000	
Mg	24	45	1	He	8849.688	8849.688	0.98	10725134	0.08	500000	
Al	27	45	1	He	22147.273	22147.273	1.40	13957203	0.16	200000	
K	39	45	1	He	6112.783	6112.783	0.60	5905430	0.10	500000	
Ca	44	45	1	He	778113.591	778113.591	0.16	39462145	1.97	500000	>LDR
Ti	47	45	1	He	43937.982	43937.982	0.67	13268249	0.33	2500	>LDR
V	51	45	1	He	4382.348	4382.348	1.38	33809767	0.01	10000	
Cr	52	45	1	He	2284.416	2284.416	0.47	21625502	0.01	10000	
Mn	55	45	1	He	5914.191	5914.191	1.18	39600081	0.01	10000	
Fe	56	45	1	He	204324.841	204324.841	1.41	1771002739	0.01	200000	>LDR
Co	59	103	1	He	1085.025	1085.025	1.34	8478439	0.01	10000	
Ni	60	103	1	He	1163.190	1163.190	1.39	2311551	0.05	10000	
Cu	63	103	1	He	1152.947	1152.947	2.04	6111482	0.02	10000	
Zn	66	103	1	He	1582.331	1582.331	2.35	1705785	0.09	10000	
As	75	103	1	He	1059.533	1059.533	0.59	722943	0.15	10000	
Se	78	103	1	He	1070.342	1070.342	0.39	60471	1.77	10000	
Sr	88	103	1	He	26859.094	26859.094	1.03	109036031	0.02	10000	>LDR
Mo	95	103	1	He	139.783	139.783	0.59	306279	0.05	2000	
Ag	107	103	1	He	105.053	105.053	1.13	795655	0.01	300	
Cd	111	103	1	He	1011.867	1011.867	0.90	1280620	0.08	4000	
Sn	118	115	1	He	1206.690	1206.690	1.52	3385196	0.04	2000	
Sb	123	115	1	He	107.135	107.135	0.67	319253	0.03	300	
Ba	137	115	1	He	1092.336	1092.336	0.15	1284413	0.09	10000	
W	182	165	1	He	140.500	140.500	0.85	1360581	0.01	2500	
Tl	205	209	1	He	275.741	275.741	0.73	5066416	0.01	5000	
Pb	208	209	1	He	1215.633	1215.633	0.41	29389987	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1327234	1.12	1803797	73.58	30	120	
Sc	45	1	He	798846	1.10	574766	138.99	30	120	ISTD Failed
Sc	45	2	NoGas	5610672	0.51	4296857	130.58	30	120	ISTD Failed
Rh	103	1	He	1224743	1.24	1652712	74.11	30	120	
In	115	1	He	640700	0.28	852389	75.17	30	120	
Tb	159	1	He	2086862	1.10	2425956	86.02	30	120	
Ho	165	1	He	2172217	0.43	2452680	88.57	30	120	
Bi	209	1	He	1334678	0.65	1810473	73.72	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-k ms@2
Data File Name	051SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:46:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	526.443	526.443	1.74	2188379	0.02	10000	
B	11	45	2	NoGas	53.818	53.818	0.30	252247	0.02	300	
Na	23	45	1	He	3981.577	3981.577	0.71	8533863	0.05	500000	
Mg	24	45	1	He	5656.745	5656.745	0.68	6838357	0.08	500000	
Al	27	45	1	He	18856.999	18856.999	1.60	11852845	0.16	200000	
K	39	45	1	He	3086.446	3086.446	0.46	3018587	0.10	500000	
Ca	44	45	1	He	803470.563	803470.563	1.51	40644872	1.98	500000	>LDR
Ti	47	45	1	He	43231.215	43231.215	0.75	13020955	0.33	2500	>LDR
V	51	45	1	He	3965.121	3965.121	1.14	30514915	0.01	10000	
Cr	52	45	1	He	1950.083	1950.083	0.62	18414681	0.01	10000	
Mn	55	45	1	He	5496.904	5496.904	2.25	36709232	0.01	10000	
Fe	56	45	1	He	200259.253	200259.253	0.78	1731396767	0.01	200000	>LDR
Co	59	103	1	He	562.670	562.670	1.04	4459399	0.01	10000	
Ni	60	103	1	He	584.263	584.263	1.06	1177632	0.05	10000	
Cu	63	103	1	He	634.265	634.265	0.50	3410955	0.02	10000	
Zn	66	103	1	He	993.062	993.062	0.80	1086027	0.09	10000	
As	75	103	1	He	508.980	508.980	0.41	352286	0.14	10000	
Se	78	103	1	He	510.836	510.836	1.43	29281	1.74	10000	
Sr	88	103	1	He	26301.579	26301.579	1.12	108287749	0.02	10000	>LDR
Mo	95	103	1	He	76.188	76.188	0.47	169537	0.04	2000	
Ag	107	103	1	He	51.613	51.613	0.21	396478	0.01	300	
Cd	111	103	1	He	494.007	494.007	0.70	634428	0.08	4000	
Sn	118	115	1	He	629.026	629.026	1.80	1797558	0.03	2000	
Sb	123	115	1	He	45.541	45.541	1.66	138603	0.03	300	
Ba	137	115	1	He	558.561	558.561	1.38	668907	0.08	10000	
W	182	165	1	He	68.909	68.909	0.80	673644	0.01	2500	
Tl	205	209	1	He	135.005	135.005	0.45	2498211	0.01	5000	
Pb	208	209	1	He	650.045	650.045	0.21	15827355	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1328048	1.16	1803797	73.63	30	120	
Sc	45	1	He	796815	1.59	574766	138.63	30	120	ISTD Failed
Sc	45	2	NoGas	5590893	1.19	4296857	130.12	30	120	ISTD Failed
Rh	103	1	He	1242050	0.49	1652712	75.15	30	120	
In	115	1	He	652613	1.58	852389	76.56	30	120	
Tb	159	1	He	2116942	0.66	2425956	87.26	30	120	
Ho	165	1	He	2188985	0.66	2452680	89.25	30	120	
Bi	209	1	He	1344111	0.47	1810473	74.24	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	052_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:50:19-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.523	3.587	228206	1.17	50	91.0	89.5	110.5	
B	11	45	2	NoGas	53.647	1.673	182629	0.16	50	107.3	89.5	110.5	
Na	23	45	1	He	28058.160	0.136	38882048	1.19	25000	112.2	89.5	110.5	CCV Failed
Mg	24	45	1	He	27685.742	0.874	21736059	0.67	25000	110.7	89.5	110.5	CCV Failed
Al	27	45	1	He	255.816	0.275	105123	0.88	250	102.3	89.5	110.5	
K	39	45	1	He	26796.612	0.724	16574973	1.41	25000	107.2	89.5	110.5	
Ca	44	45	1	He	25916.511	0.929	852027	1.09	25000	103.7	89.5	110.5	
Ti	47	45	1	He	103.353	6.950	20211	5.85	50	206.7	89.5	110.5	CCV Failed
V	51	45	1	He	55.229	0.530	276299	0.56	50	110.5	89.5	110.5	
Cr	52	45	1	He	55.469	1.834	342803	0.74	50	110.9	89.5	110.5	CCV Failed
Mn	55	45	1	He	267.717	1.848	1161428	0.79	250	107.1	89.5	110.5	
Fe	56	45	1	He	13980.863	1.491	78511632	0.41	12500	111.8	89.5	110.5	CCV Failed
Co	59	103	1	He	48.043	2.817	491021	0.78	50	96.1	89.5	110.5	
Ni	60	103	1	He	48.089	2.439	125075	1.15	50	96.2	89.5	110.5	
Cu	63	103	1	He	48.885	2.676	341230	0.89	50	97.8	89.5	110.5	
Zn	66	103	1	He	48.633	2.707	69364	0.28	50	97.3	89.5	110.5	
As	75	103	1	He	47.002	3.033	42120	0.44	50	94.0	89.5	110.5	
Se	78	103	1	He	45.733	2.419	3407	0.32	50	91.5	89.5	110.5	
Sr	88	103	1	He	49.005	2.216	260391	2.85	50	98.0	89.5	110.5	
Mo	95	103	1	He	51.387	2.903	147672	1.36	50	102.8	89.5	110.5	
Ag	107	103	1	He	50.321	3.084	498420	1.02	50	100.6	89.5	110.5	
Cd	111	103	1	He	50.039	1.716	83619	1.10	50	100.1	89.5	110.5	
Sn	118	115	1	He	51.701	0.474	178316	0.65	50	103.4	89.5	110.5	
Sb	123	115	1	He	54.264	0.482	198356	0.47	50	108.5	89.5	110.5	
Ba	137	115	1	He	52.661	1.367	75812	1.12	50	105.3	89.5	110.5	
W	182	165	1	He	51.144	2.002	571471	1.37	50	102.3	89.5	110.5	
Tl	205	209	1	He	49.167	1.795	1187699	0.43	50	98.3	89.5	110.5	
Pb	208	209	1	He	50.496	1.300	1605543	0.45	50	101.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1602330	2.55	1803797	88.83	30	120	
Sc	45	1	He	517552	1.08	574766	90.05	30	120	
Sc	45	2	NoGas	4061027	1.51	4296857	94.51	30	120	
Rh	103	1	He	1602318	2.60	1652712	96.95	30	120	
In	115	1	He	784319	0.28	852389	92.01	30	120	
Tb	159	1	He	2446425	1.95	2425956	100.84	30	120	
Ho	165	1	He	2499075	0.83	2452680	101.89	30	120	
Bi	209	1	He	1754592	1.40	1810473	96.91	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	053_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:54:09-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.079	1.9	433	2.6	1	
B	11	45	2	NoGas	2.668	4.2	15455	1.0	20	
Na	23	45	1	He	22.883	3.5	67583	1.6	400	
Mg	24	45	1	He	1.145	23.4	1893	12.0	1000	
Al	27	45	1	He	7.605	2.6	4129	2.3	50	
K	39	45	1	He	6.357	30.2	68013	1.8	1000	
Ca	44	45	1	He	40.276	4.2	2011	2.8	1000	
Ti	47	45	1	He	6.330	11.2	1355	11.5	20	
V	51	45	1	He	0.216	45.5	1439	37.5	2	
Cr	52	45	1	He	0.081	20.5	3506	3.3	2	
Mn	55	45	1	He	0.339	5.3	1772	4.6	2	
Fe	56	45	1	He	18.377	12.1	118734	11.3	50	
Co	59	103	1	He	0.017	14.3	248	9.5	1	
Ni	60	103	1	He	0.007	60.5	122	9.6	2	
Cu	63	103	1	He	-0.039	-29.9	2365	2.1	2	
Zn	66	103	1	He	0.427	16.4	1572	5.6	20	
As	75	103	1	He	0.094	22.2	303	5.1	2	
Se	78	103	1	He	0.071	57.8	38	10.8	2	
Sr	88	103	1	He	0.619	9.5	3782	7.5	10	
Mo	95	103	1	He	0.693	22.8	2931	15.8	2	
Ag	107	103	1	He	0.005	74.1	88	44.0	0.2	
Cd	111	103	1	He	0.064	32.5	1028	2.7	0.2	
Sn	118	115	1	He	0.436	12.2	2523	8.2	10	
Sb	123	115	1	He	0.379	10.9	2422	6.2	1	
Ba	137	115	1	He	0.026	29.2	54	21.5	5	
W	182	165	1	He	1.001	13.2	14351	10.2	10	
Tl	205	209	1	He	0.067	14.3	2164	12.3	0.5	
Pb	208	209	1	He	0.034	9.9	2093	6.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1739593	0.86	1803797	96.44	30	120	
Sc	45	1	He	565487	0.22	574766	98.39	30	120	
Sc	45	2	NoGas	4380268	1.60	4296857	101.94	30	120	
Rh	103	1	He	1769845	1.80	1652712	107.09	30	120	
In	115	1	He	861503	0.67	852389	101.07	30	120	
Tb	159	1	He	2536549	0.40	2425956	104.56	30	120	
Ho	165	1	He	2587277	0.54	2452680	105.49	30	120	
Bi	209	1	He	1889898	0.74	1810473	104.39	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-I msd@2
Data File Name	054SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:58:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	534.427	534.427	0.70	2327804	0.02	10000	
B	11	45	2	NoGas	53.929	53.929	0.88	259650	0.02	300	
Na	23	45	1	He	4003.013	4003.013	1.03	8562597	0.05	500000	
Mg	24	45	1	He	5670.677	5670.677	0.79	6841611	0.08	500000	
Al	27	45	1	He	18802.148	18802.148	1.25	11795828	0.16	200000	
K	39	45	1	He	3198.061	3198.061	1.84	3118117	0.10	500000	
Ca	44	45	1	He	789209.056	789209.056	0.96	39841152	1.98	500000	>LDR
Ti	47	45	1	He	42291.452	42291.452	0.56	12712339	0.33	2500	>LDR
V	51	45	1	He	3854.099	3854.099	1.45	29599512	0.01	10000	
Cr	52	45	1	He	1899.438	1899.438	1.52	17899277	0.01	10000	
Mn	55	45	1	He	5234.739	5234.739	1.32	34891420	0.02	10000	
Fe	56	45	1	He	191674.271	191674.271	0.50	1653825072	0.01	200000	
Co	59	103	1	He	562.963	562.963	0.55	4497769	0.01	10000	
Ni	60	103	1	He	583.300	583.300	0.53	1185145	0.05	10000	
Cu	63	103	1	He	635.430	635.430	0.64	3444748	0.02	10000	
Zn	66	103	1	He	985.002	985.002	0.92	1085931	0.09	10000	
As	75	103	1	He	518.456	518.456	0.96	361724	0.14	10000	
Se	78	103	1	He	528.900	528.900	0.33	30560	1.73	10000	
Sr	88	103	1	He	25295.257	25295.257	0.19	104985485	0.02	10000	>LDR
Mo	95	103	1	He	76.733	76.733	0.58	172129	0.04	2000	
Ag	107	103	1	He	51.879	51.879	0.29	401729	0.01	300	
Cd	111	103	1	He	500.641	500.641	0.53	648104	0.08	4000	
Sn	118	115	1	He	629.584	629.584	1.17	1827202	0.03	2000	
Sb	123	115	1	He	46.811	46.811	1.35	144678	0.03	300	
Ba	137	115	1	He	565.874	565.874	0.40	688247	0.08	10000	
W	182	165	1	He	70.530	70.530	1.57	697713	0.01	2500	
Tl	205	209	1	He	133.981	133.981	0.93	2569057	0.01	5000	
Pb	208	209	1	He	637.795	637.795	0.93	16091236	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1391394	0.29	1803797	77.14	30	120	
Sc	45	1	He	795174	0.23	574766	138.35	30	120	ISTD Failed
Sc	45	2	NoGas	5743711	0.61	4296857	133.67	30	120	ISTD Failed
Rh	103	1	He	1252064	0.74	1652712	75.76	30	120	
In	115	1	He	662709	0.52	852389	77.75	30	120	
Tb	159	1	He	2156106	0.54	2425956	88.88	30	120	
Ho	165	1	He	2215055	0.75	2452680	90.31	30	120	
Bi	209	1	He	1392807	0.49	1810473	76.93	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-3-e@2
Data File Name	055SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:01:42-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.038	1.038	12.10	4312	0.02	10000	
B	11	45	2	NoGas	23.050	23.050	0.31	111002	0.02	300	
Na	23	45	1	He	608.376	608.376	0.12	1333335	0.05	500000	
Mg	24	45	1	He	3728.411	3728.411	1.13	4473975	0.08	500000	
Al	27	45	1	He	16143.579	16143.579	1.06	10072690	0.16	200000	
K	39	45	1	He	128.580	128.580	0.88	210229	0.06	500000	
Ca	44	45	1	He	589194.017	589194.017	0.06	29582101	1.99	500000	>LDR
Ti	47	45	1	He	42297.817	42297.817	0.36	12645198	0.33	2500	>LDR
V	51	45	1	He	3615.180	3615.180	0.26	27613392	0.01	10000	
Cr	52	45	1	He	1643.698	1643.698	0.29	15405674	0.01	10000	
Mn	55	45	1	He	4897.584	4897.584	0.44	32466380	0.02	10000	
Fe	56	45	1	He	188103.063	188103.063	0.61	1614133589	0.01	200000	
Co	59	103	1	He	38.327	38.327	0.18	311854	0.01	10000	
Ni	60	103	1	He	79.527	79.527	0.62	164605	0.05	10000	
Cu	63	103	1	He	110.977	110.977	0.42	614242	0.02	10000	
Zn	66	103	1	He	514.373	514.373	0.90	577775	0.09	10000	
As	75	103	1	He	12.937	12.937	0.49	9340	0.14	10000	
Se	78	103	1	He	3.221	3.221	4.33	212	1.52	10000	
Sr	88	103	1	He	22396.271	22396.271	0.49	94656476	0.02	10000	>LDR
Mo	95	103	1	He	17.288	17.288	1.18	39904	0.04	2000	
Ag	107	103	1	He	1.757	1.757	1.50	13879	0.01	300	
Cd	111	103	1	He	8.358	8.358	3.78	11663	0.07	4000	
Sn	118	115	1	He	61.539	61.539	0.67	182927	0.03	2000	
Sb	123	115	1	He	0.823	0.823	0.72	3295	0.02	300	
Ba	137	115	1	He	58.361	58.361	0.60	72463	0.08	10000	
W	182	165	1	He	31.425	31.425	2.17	316210	0.01	2500	
Tl	205	209	1	He	0.217	0.217	12.13	4593	0.00	5000	
Pb	208	209	1	He	92.440	92.440	0.38	2395275	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1328417	1.81	1803797	73.65	30	120	
Sc	45	1	He	790841	0.56	574766	137.59	30	120	ISTD Failed
Sc	45	2	NoGas	5522134	0.49	4296857	128.52	30	120	ISTD Failed
Rh	103	1	He	1275006	0.20	1652712	77.15	30	120	
In	115	1	He	676450	0.38	852389	79.36	30	120	
Tb	159	1	He	2167521	0.40	2425956	89.35	30	120	
Ho	165	1	He	2244211	2.07	2452680	91.50	30	120	
Bi	209	1	He	1430094	0.39	1810473	78.99	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-4-e@2
Data File Name	056SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:05:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.061	1.061	6.28	4382	0.02	10000	
B	11	45	2	NoGas	18.105	18.105	1.85	89269	0.02	300	
Na	23	45	1	He	552.474	552.474	1.11	1203089	0.05	500000	
Mg	24	45	1	He	2965.555	2965.555	0.68	3523905	0.08	500000	
Al	27	45	1	He	16361.135	16361.135	1.19	10108054	0.16	200000	
K	39	45	1	He	118.827	118.827	1.25	199066	0.06	500000	
Ca	44	45	1	He	593233.491	593233.491	0.33	29491819	2.01	500000	>LDR
Ti	47	45	1	He	43738.924	43738.924	0.16	12947234	0.34	2500	>LDR
V	51	45	1	He	3751.568	3751.568	0.66	28373456	0.01	10000	
Cr	52	45	1	He	1700.950	1700.950	0.46	15785293	0.01	10000	
Mn	55	45	1	He	4960.891	4960.891	0.88	32561948	0.02	10000	
Fe	56	45	1	He	187070.285	187070.285	0.47	1589495439	0.01	200000	
Co	59	103	1	He	37.368	37.368	0.34	304254	0.01	10000	
Ni	60	103	1	He	81.597	81.597	0.10	169000	0.05	10000	
Cu	63	103	1	He	115.707	115.707	1.24	640735	0.02	10000	
Zn	66	103	1	He	519.798	519.798	1.03	584237	0.09	10000	
As	75	103	1	He	12.665	12.665	2.14	9152	0.14	10000	
Se	78	103	1	He	2.899	2.899	0.29	194	1.50	10000	
Sr	88	103	1	He	21678.249	21678.249	0.98	91681776	0.02	10000	>LDR
Mo	95	103	1	He	17.165	17.165	2.71	39650	0.04	2000	
Ag	107	103	1	He	2.062	2.062	1.02	16291	0.01	300	
Cd	111	103	1	He	9.284	9.284	4.90	12889	0.07	4000	
Sn	118	115	1	He	63.086	63.086	0.61	187844	0.03	2000	
Sb	123	115	1	He	0.742	0.742	5.39	3047	0.02	300	
Ba	137	115	1	He	54.850	54.850	1.18	68224	0.08	10000	
W	182	165	1	He	35.765	35.765	2.45	356361	0.01	2500	
Tl	205	209	1	He	0.140	0.140	3.71	3071	0.00	5000	
Pb	208	209	1	He	95.148	95.148	0.17	2471041	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1319121	1.53	1803797	73.13	30	120	
Sc	45	1	He	783058	0.38	574766	136.24	30	120	ISTD Failed
Sc	45	2	NoGas	5551579	0.87	4296857	129.20	30	120	ISTD Failed
Rh	103	1	He	1275849	0.69	1652712	77.20	30	120	
In	115	1	He	677661	0.39	852389	79.50	30	120	
Tb	159	1	He	2168879	1.91	2425956	89.40	30	120	
Ho	165	1	He	2224127	1.22	2452680	90.68	30	120	
Bi	209	1	He	1433345	0.36	1810473	79.17	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-5-e@2
Data File Name	057SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:09:11-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.496	2.496	2.08	11823	0.02	10000	
B	11	45	2	NoGas	51.822	51.822	1.04	179744	0.03	300	
Na	23	45	1	He	1278.848	1278.848	1.65	1818041	0.07	500000	
Mg	24	45	1	He	9880.426	9880.426	1.24	7831616	0.13	500000	
Al	27	45	1	He	42099.926	42099.926	1.23	17353930	0.24	200000	
K	39	45	1	He	2788.811	2788.811	2.98	1794295	0.16	500000	
Ca	44	45	1	He	65043.380	65043.380	1.00	2158312	3.01	500000	
Ti	47	45	1	He	1127.178	1127.178	0.54	222658	0.51	2500	
V	51	45	1	He	187.074	187.074	0.43	944337	0.02	10000	
Cr	52	45	1	He	220.925	220.925	0.29	1370526	0.02	10000	
Mn	55	45	1	He	2054.405	2054.405	1.58	8996922	0.02	10000	
Fe	56	45	1	He	206518.247	206518.247	0.68	1170968167	0.02	200000	>LDR
Co	59	103	1	He	28.361	28.361	2.50	263739	0.01	10000	
Ni	60	103	1	He	98.413	98.413	2.95	232745	0.04	10000	
Cu	63	103	1	He	429.891	429.891	3.56	2712385	0.02	10000	
Zn	66	103	1	He	1580.583	1580.583	2.22	2027761	0.08	10000	
As	75	103	1	He	43.481	43.481	2.70	35464	0.12	10000	
Se	78	103	1	He	3.715	3.715	3.70	276	1.35	10000	
Sr	88	103	1	He	1400.276	1400.276	3.28	6762298	0.02	10000	
Mo	95	103	1	He	12.952	12.952	1.01	34344	0.04	2000	
Ag	107	103	1	He	3.018	3.018	2.51	27229	0.01	300	
Cd	111	103	1	He	6.655	6.655	3.64	10769	0.06	4000	
Sn	118	115	1	He	451.445	451.445	0.44	1450677	0.03	2000	
Sb	123	115	1	He	9.941	9.941	1.24	34626	0.03	300	
Ba	137	115	1	He	543.696	543.696	0.28	732071	0.07	10000	
W	182	165	1	He	5.430	5.430	0.74	61744	0.01	2500	
Tl	205	209	1	He	0.431	0.431	5.74	10261	0.00	5000	
Pb	208	209	1	He	1470.645	1470.645	3.40	44442037	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1513009	1.80	1803797	83.88	30	120	
Sc	45	1	He	522526	1.55	574766	90.91	30	120	
Sc	45	2	NoGas	4132783	1.06	4296857	96.18	30	120	
Rh	103	1	He	1458035	3.80	1652712	88.22	30	120	
In	115	1	He	733675	1.19	852389	86.07	30	120	
Tb	159	1	He	2333748	3.44	2425956	96.20	30	120	
Ho	165	1	He	2444335	2.82	2452680	99.66	30	120	
Bi	209	1	He	1669802	4.03	1810473	92.23	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-6-e@2
Data File Name	058SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:12:54-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.809	0.809	3.66	3752	0.02	10000	
B	11	45	2	NoGas	15.590	15.590	0.71	55424	0.03	300	
Na	23	45	1	He	1071.210	1071.210	1.74	1514699	0.07	500000	
Mg	24	45	1	He	4079.386	4079.386	0.03	3206373	0.13	500000	
Al	27	45	1	He	22800.070	22800.070	0.89	9317848	0.24	200000	
K	39	45	1	He	921.205	921.205	1.07	626673	0.15	500000	
Ca	44	45	1	He	72616.321	72616.321	1.46	2388617	3.04	500000	
Ti	47	45	1	He	565.467	565.467	0.80	110728	0.51	2500	
V	51	45	1	He	114.856	114.856	0.25	574857	0.02	10000	
Cr	52	45	1	He	90.052	90.052	0.24	555399	0.02	10000	
Mn	55	45	1	He	325.499	325.499	1.23	1413438	0.02	10000	
Fe	56	45	1	He	34652.209	34652.209	1.43	194769543	0.02	200000	
Co	59	103	1	He	3.751	3.751	1.59	35082	0.01	10000	
Ni	60	103	1	He	18.566	18.566	0.93	44185	0.04	10000	
Cu	63	103	1	He	284.334	284.334	2.33	1803255	0.02	10000	
Zn	66	103	1	He	185.681	185.681	2.32	239920	0.08	10000	
As	75	103	1	He	9.837	9.837	0.67	8196	0.12	10000	
Se	78	103	1	He	2.726	2.726	5.33	210	1.30	10000	
Sr	88	103	1	He	1582.434	1582.434	0.75	7678989	0.02	10000	
Mo	95	103	1	He	2.429	2.429	0.28	6967	0.03	2000	
Ag	107	103	1	He	1.341	1.341	2.29	12168	0.01	300	
Cd	111	103	1	He	0.866	0.866	7.71	2063	0.04	4000	
Sn	118	115	1	He	66.929	66.929	1.90	219903	0.03	2000	
Sb	123	115	1	He	0.861	0.861	4.88	3776	0.02	300	
Ba	137	115	1	He	122.979	122.979	0.83	168832	0.07	10000	
W	182	165	1	He	0.718	0.718	4.65	10230	0.01	2500	
Tl	205	209	1	He	0.246	0.246	2.05	6195	0.00	5000	
Pb	208	209	1	He	163.565	163.565	0.88	5091665	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1480539	1.03	1803797	82.08	30	120	
Sc	45	1	He	518002	0.40	574766	90.12	30	120	
Sc	45	2	NoGas	3948750	1.08	4296857	91.90	30	120	
Rh	103	1	He	1463962	1.11	1652712	88.58	30	120	
In	115	1	He	748015	0.98	852389	87.76	30	120	
Tb	159	1	He	2349214	1.11	2425956	96.84	30	120	
Ho	165	1	He	2386279	1.61	2452680	97.29	30	120	
Bi	209	1	He	1718339	0.76	1810473	94.91	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-j@50
Data File Name	059SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:16:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.077	0.077	25.60	389	0.02	10000	
B	11	45	2	NoGas	2.303	2.303	3.14	13528	0.02	300	
Na	23	45	1	He	75.711	75.711	1.89	145519	0.05	500000	
Mg	24	45	1	He	198.795	198.795	0.50	169139	0.12	500000	
Al	27	45	1	He	1210.733	1210.733	0.99	533587	0.23	200000	
K	39	45	1	He	13.634	13.634	10.16	71932	0.02	500000	
Ca	44	45	1	He	56498.808	56498.808	1.07	2001673	2.82	500000	
Ti	47	45	1	He	3017.129	3017.129	0.28	636299	0.47	2500	>LDR
V	51	45	1	He	277.560	277.560	0.79	1495772	0.02	10000	
Cr	52	45	1	He	120.440	120.440	0.79	799019	0.02	10000	
Mn	55	45	1	He	409.573	409.573	0.92	1915505	0.02	10000	
Fe	56	45	1	He	14723.828	14723.828	0.45	89138639	0.02	200000	
Co	59	103	1	He	1.670	1.670	1.66	17835	0.01	10000	
Ni	60	103	1	He	3.556	3.556	3.23	9725	0.04	10000	
Cu	63	103	1	He	5.067	5.067	1.48	39105	0.01	10000	
Zn	66	103	1	He	25.263	25.263	1.05	37950	0.07	10000	
As	75	103	1	He	0.516	0.516	6.35	679	0.08	10000	
Se	78	103	1	He	0.231	0.231	20.47	48	0.48	10000	
Sr	88	103	1	He	980.772	980.772	1.60	5424899	0.02	10000	
Mo	95	103	1	He	0.485	0.485	10.77	2148	0.02	2000	
Ag	107	103	1	He	0.019	0.019	15.20	228	0.01	300	
Cd	111	103	1	He	0.121	0.121	28.93	1066	0.01	4000	
Sn	118	115	1	He	3.162	3.162	4.24	12279	0.03	2000	
Sb	123	115	1	He	-0.036	-0.036	-71.22	733	0.00	300	
Ba	137	115	1	He	2.670	2.670	3.16	4063	0.07	10000	
W	182	165	1	He	1.340	1.340	2.65	17733	0.01	2500	
Tl	205	209	1	He	0.010	0.010	15.91	666	0.00	5000	
Pb	208	209	1	He	4.157	4.157	1.66	142098	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1588343	2.70	1803797	88.06	30	120	
Sc	45	1	He	557889	0.70	574766	97.06	30	120	
Sc	45	2	NoGas	4184894	0.70	4296857	97.39	30	120	
Rh	103	1	He	1668618	0.63	1652712	100.96	30	120	
In	115	1	He	826344	0.37	852389	96.94	30	120	
Tb	159	1	He	2495076	2.04	2425956	102.85	30	120	
Ho	165	1	He	2512189	1.23	2452680	102.43	30	120	
Bi	209	1	He	1875236	1.60	1810473	103.58	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-j@10
Data File Name	060SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:20:27-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1078.227	1078.227	2.90	4955215	0.02	10000	
B	11	45	2	NoGas	108.133	108.133	1.65	388261	0.03	300	
Na	23	45	1	He	9721.912	9721.912	0.89	14911008	0.07	500000	
Mg	24	45	1	He	10243.012	10243.012	0.59	8888556	0.12	500000	
Al	27	45	1	He	13770.843	13770.843	1.10	6214381	0.22	200000	
K	39	45	1	He	9227.919	9227.919	1.18	6350047	0.15	500000	
Ca	44	45	1	He	247439.013	247439.013	0.58	8985583	2.75	500000	
Ti	47	45	1	He	13772.160	13772.160	0.80	2977818	0.46	2500	>LDR
V	51	45	1	He	2123.566	2123.566	0.93	11731703	0.02	10000	
Cr	52	45	1	He	1477.805	1477.805	0.56	10017762	0.01	10000	
Mn	55	45	1	He	2607.099	2607.099	0.65	12499715	0.02	10000	
Fe	56	45	1	He	72313.060	72313.060	0.30	448812489	0.02	200000	
Co	59	103	1	He	1029.677	1029.677	1.02	9289992	0.01	10000	
Ni	60	103	1	He	1075.458	1075.458	0.61	2467517	0.04	10000	
Cu	63	103	1	He	1048.872	1048.872	0.40	6419817	0.02	10000	
Zn	66	103	1	He	1083.498	1083.498	0.96	1348924	0.08	10000	
As	75	103	1	He	997.971	997.971	0.25	786175	0.13	10000	
Se	78	103	1	He	972.230	972.230	0.37	63418	1.53	10000	
Sr	88	103	1	He	6122.770	6122.770	1.32	28695468	0.02	10000	
Mo	95	103	1	He	115.412	115.412	1.69	292033	0.04	2000	
Ag	107	103	1	He	104.457	104.457	0.36	913407	0.01	300	
Cd	111	103	1	He	1020.338	1020.338	0.18	1490903	0.07	4000	
Sn	118	115	1	He	1144.157	1144.157	1.21	3659081	0.03	2000	
Sb	123	115	1	He	106.296	106.296	0.33	361088	0.03	300	
Ba	137	115	1	He	1064.023	1064.023	0.65	1426238	0.07	10000	
W	182	165	1	He	107.448	107.448	2.38	1151378	0.01	2500	
Tl	205	209	1	He	261.602	261.602	4.94	5801672	0.00	5000	
Pb	208	209	1	He	1088.903	1088.903	3.96	31785142	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1468633	1.97	1803797	81.42	30	120	
Sc	45	1	He	571973	0.55	574766	99.51	30	120	
Sc	45	2	NoGas	4349225	1.08	4296857	101.22	30	120	
Rh	103	1	He	1413921	0.69	1652712	85.55	30	120	
In	115	1	He	730369	0.51	852389	85.68	30	120	
Tb	159	1	He	2341259	0.24	2425956	96.51	30	120	
Ho	165	1	He	2403484	2.82	2452680	97.99	30	120	
Bi	209	1	He	1613242	4.24	1810473	89.11	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-k ms@10
Data File Name	061SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:24:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	104.762	104.762	2.20	474513	0.02	10000	
B	11	45	2	NoGas	15.711	15.711	2.40	60637	0.03	300	
Na	23	45	1	He	1233.598	1233.598	0.44	1933769	0.06	500000	
Mg	24	45	1	He	1764.203	1764.203	0.74	1541789	0.11	500000	
Al	27	45	1	He	5930.195	5930.195	1.57	2694292	0.22	200000	
K	39	45	1	He	912.361	912.361	0.46	690477	0.13	500000	
Ca	44	45	1	He	245560.682	245560.682	0.81	8976326	2.74	500000	
Ti	47	45	1	He	13178.057	13178.057	1.18	2868189	0.46	2500	>LDR
V	51	45	1	He	1210.097	1210.097	0.41	6729337	0.02	10000	
Cr	52	45	1	He	596.540	596.540	0.85	4072463	0.01	10000	
Mn	55	45	1	He	1677.565	1677.565	0.28	8096320	0.02	10000	
Fe	56	45	1	He	61320.103	61320.103	0.13	383095034	0.02	200000	
Co	59	103	1	He	106.671	106.671	0.29	966436	0.01	10000	
Ni	60	103	1	He	116.481	116.481	0.47	268443	0.04	10000	
Cu	63	103	1	He	122.836	122.836	0.54	756869	0.02	10000	
Zn	66	103	1	He	207.896	207.896	0.89	260478	0.08	10000	
As	75	103	1	He	96.970	96.970	0.90	76863	0.13	10000	
Se	78	103	1	He	94.533	94.533	2.32	6215	1.52	10000	
Sr	88	103	1	He	5180.024	5180.024	0.95	24379367	0.02	10000	
Mo	95	103	1	He	15.445	15.445	1.31	39767	0.04	2000	
Ag	107	103	1	He	10.412	10.412	0.27	91452	0.01	300	
Cd	111	103	1	He	102.650	102.650	0.43	151275	0.07	4000	
Sn	118	115	1	He	119.874	119.874	0.98	394981	0.03	2000	
Sb	123	115	1	He	9.472	9.472	2.70	33816	0.03	300	
Ba	137	115	1	He	112.457	112.457	1.01	155050	0.07	10000	
W	182	165	1	He	14.651	14.651	1.94	158110	0.01	2500	
Tl	205	209	1	He	23.991	23.991	4.46	556106	0.00	5000	
Pb	208	209	1	He	121.127	121.127	4.46	3692933	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1447338	2.12	1803797	80.24	30	120	
Sc	45	1	He	575750	0.33	574766	100.17	30	120	
Sc	45	2	NoGas	4290755	1.08	4296857	99.86	30	120	
Rh	103	1	He	1419824	0.64	1652712	85.91	30	120	
In	115	1	He	751191	0.42	852389	88.13	30	120	
Tb	159	1	He	2329869	0.33	2425956	96.04	30	120	
Ho	165	1	He	2385111	0.41	2452680	97.25	30	120	
Bi	209	1	He	1684774	4.03	1810473	93.06	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-I msd@10
Data File Name	062SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:27:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	105.068	105.068	1.01	474359	0.02	10000	
B	11	45	2	NoGas	15.578	15.578	0.81	59006	0.03	300	
Na	23	45	1	He	1243.279	1243.279	2.28	1896018	0.07	500000	
Mg	24	45	1	He	1777.311	1777.311	1.36	1511304	0.12	500000	
Al	27	45	1	He	5802.675	5802.675	1.68	2565587	0.23	200000	
K	39	45	1	He	943.363	943.363	0.60	692558	0.14	500000	
Ca	44	45	1	He	236546.799	236546.799	0.21	8413943	2.81	500000	
Ti	47	45	1	He	12878.474	12878.474	1.53	2727296	0.47	2500	>LDR
V	51	45	1	He	1183.004	1183.004	1.28	6401351	0.02	10000	
Cr	52	45	1	He	583.788	583.788	0.69	3878243	0.02	10000	
Mn	55	45	1	He	1610.475	1610.475	0.73	7563139	0.02	10000	
Fe	56	45	1	He	59091.184	59091.184	0.70	359221212	0.02	200000	
Co	59	103	1	He	106.587	106.587	0.41	954216	0.01	10000	
Ni	60	103	1	He	116.205	116.205	0.66	264631	0.04	10000	
Cu	63	103	1	He	122.371	122.371	0.40	745059	0.02	10000	
Zn	66	103	1	He	203.617	203.617	1.37	252098	0.08	10000	
As	75	103	1	He	97.413	97.413	0.75	76294	0.13	10000	
Se	78	103	1	He	94.049	94.049	2.32	6110	1.54	10000	
Sr	88	103	1	He	4908.508	4908.508	1.10	22827527	0.02	10000	
Mo	95	103	1	He	14.323	14.323	1.64	36480	0.04	2000	
Ag	107	103	1	He	10.598	10.598	0.16	91980	0.01	300	
Cd	111	103	1	He	103.283	103.283	0.36	150399	0.07	4000	
Sn	118	115	1	He	118.462	118.462	0.63	384530	0.03	2000	
Sb	123	115	1	He	9.449	9.449	1.15	33230	0.03	300	
Ba	137	115	1	He	113.243	113.243	1.41	153794	0.07	10000	
W	182	165	1	He	14.048	14.048	2.62	152314	0.01	2500	
Tl	205	209	1	He	24.647	24.647	2.91	556003	0.00	5000	
Pb	208	209	1	He	123.647	123.647	2.42	3669153	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1442252	1.73	1803797	79.96	30	120	
Sc	45	1	He	560253	0.79	574766	97.47	30	120	
Sc	45	2	NoGas	4206816	0.33	4296857	97.90	30	120	
Rh	103	1	He	1402979	0.60	1652712	84.89	30	120	
In	115	1	He	740003	0.85	852389	86.82	30	120	
Tb	159	1	He	2311569	0.78	2425956	95.28	30	120	
Ho	165	1	He	2394389	0.98	2452680	97.62	30	120	
Bi	209	1	He	1638410	2.19	1810473	90.50	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-3-e@10
Data File Name	063SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:31:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.288	0.288	13.10	1326	0.02	10000	
B	11	45	2	NoGas	6.873	6.873	4.50	29313	0.02	300	
Na	23	45	1	He	184.760	184.760	1.42	311410	0.06	500000	
Mg	24	45	1	He	1089.618	1089.618	1.23	932346	0.12	500000	
Al	27	45	1	He	4976.179	4976.179	0.70	2212955	0.22	200000	
K	39	45	1	He	40.764	40.764	3.71	90867	0.04	500000	
Ca	44	45	1	He	176218.883	176218.883	0.88	6304834	2.79	500000	
Ti	47	45	1	He	12757.285	12757.285	0.67	2717575	0.47	2500	>LDR
V	51	45	1	He	1080.627	1080.627	1.20	5881752	0.02	10000	
Cr	52	45	1	He	495.703	495.703	0.15	3312573	0.01	10000	
Mn	55	45	1	He	1474.410	1474.410	1.51	6964666	0.02	10000	
Fe	56	45	1	He	57433.001	57433.001	0.51	351186919	0.02	200000	
Co	59	103	1	He	7.471	7.471	1.20	67809	0.01	10000	
Ni	60	103	1	He	15.741	15.741	3.00	36389	0.04	10000	
Cu	63	103	1	He	21.996	21.996	0.45	137444	0.02	10000	
Zn	66	103	1	He	106.258	106.258	0.39	133642	0.08	10000	
As	75	103	1	He	2.451	2.451	2.72	2110	0.12	10000	
Se	78	103	1	He	0.781	0.781	7.00	77	1.02	10000	
Sr	88	103	1	He	4398.098	4398.098	1.00	20723189	0.02	10000	
Mo	95	103	1	He	3.320	3.320	0.87	9027	0.04	2000	
Ag	107	103	1	He	0.249	0.249	5.71	2220	0.01	300	
Cd	111	103	1	He	1.172	1.172	12.31	2451	0.05	4000	
Sn	118	115	1	He	12.722	12.722	1.01	42762	0.03	2000	
Sb	123	115	1	He	0.132	0.132	14.65	1257	0.01	300	
Ba	137	115	1	He	11.503	11.503	0.71	15929	0.07	10000	
W	182	165	1	He	6.284	6.284	0.53	69565	0.01	2500	
Tl	205	209	1	He	0.071	0.071	14.76	2036	0.00	5000	
Pb	208	209	1	He	17.374	17.374	1.60	537570	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1471531	2.15	1803797	81.58	30	120	
Sc	45	1	He	563512	0.33	574766	98.04	30	120	
Sc	45	2	NoGas	4217895	1.11	4296857	98.16	30	120	
Rh	103	1	He	1421431	0.13	1652712	86.01	30	120	
In	115	1	He	754012	0.82	852389	88.46	30	120	
Tb	159	1	He	2327851	0.51	2425956	95.96	30	120	
Ho	165	1	He	2393732	0.92	2452680	97.60	30	120	
Bi	209	1	He	1705598	1.23	1810473	94.21	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	064_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:35:21-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.380	1.882	223424	2.29	50	90.8	89.5	110.5	
B	11	45	2	NoGas	49.476	1.860	168522	2.11	50	99.0	89.5	110.5	
Na	23	45	1	He	27469.003	0.924	38235593	0.68	25000	109.9	89.5	110.5	
Mg	24	45	1	He	27038.595	0.712	21323701	0.44	25000	108.2	89.5	110.5	
Al	27	45	1	He	250.511	0.088	103421	0.87	250	100.2	89.5	110.5	
K	39	45	1	He	26862.484	0.922	16689519	0.77	25000	107.4	89.5	110.5	
Ca	44	45	1	He	25610.221	0.303	845760	0.68	25000	102.4	89.5	110.5	
Ti	47	45	1	He	74.415	3.486	14623	2.75	50	148.8	89.5	110.5	CCV Failed
V	51	45	1	He	54.618	1.192	274465	0.65	50	109.2	89.5	110.5	
Cr	52	45	1	He	54.317	1.411	337269	0.62	50	108.6	89.5	110.5	
Mn	55	45	1	He	262.650	0.893	1144673	0.58	250	105.1	89.5	110.5	
Fe	56	45	1	He	13595.127	1.380	76692739	1.00	12500	108.8	89.5	110.5	
Co	59	103	1	He	49.034	2.521	481359	0.25	50	98.1	89.5	110.5	
Ni	60	103	1	He	48.840	2.490	122001	0.17	50	97.7	89.5	110.5	
Cu	63	103	1	He	49.300	2.405	330524	0.83	50	98.6	89.5	110.5	
Zn	66	103	1	He	49.570	2.046	67900	1.11	50	99.1	89.5	110.5	
As	75	103	1	He	47.726	2.252	41082	0.45	50	95.5	89.5	110.5	
Se	78	103	1	He	46.294	2.752	3312	0.55	50	92.6	89.5	110.5	
Sr	88	103	1	He	48.517	2.023	247565	1.17	50	97.0	89.5	110.5	
Mo	95	103	1	He	51.619	3.111	142467	1.23	50	103.2	89.5	110.5	
Ag	107	103	1	He	51.383	2.674	488854	0.34	50	102.8	89.5	110.5	
Cd	111	103	1	He	51.822	2.165	83140	0.51	50	103.6	89.5	110.5	
Sn	118	115	1	He	51.384	1.849	178320	1.42	50	102.8	89.5	110.5	
Sb	123	115	1	He	53.366	1.399	196291	0.72	50	106.7	89.5	110.5	
Ba	137	115	1	He	51.784	1.346	75012	1.01	50	103.6	89.5	110.5	
W	182	165	1	He	51.005	1.622	552934	1.32	50	102.0	89.5	110.5	
Tl	205	209	1	He	48.308	0.953	1177216	0.47	50	96.6	89.5	110.5	
Pb	208	209	1	He	49.515	1.348	1588083	0.54	50	99.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1572664	0.47	1803797	87.19	30	120	
Sc	45	1	He	519876	0.78	574766	90.45	30	120	
Sc	45	2	NoGas	4052086	0.31	4296857	94.30	30	120	
Rh	103	1	He	1538941	2.40	1652712	93.12	30	120	
In	115	1	He	789202	0.68	852389	92.59	30	120	
Tb	159	1	He	2383980	0.45	2425956	98.27	30	120	
Ho	165	1	He	2424597	1.37	2452680	98.86	30	120	
Bi	209	1	He	1769783	0.83	1810473	97.75	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	065_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:39:11-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.062	20.9	315	18.1	1	
B	11	45	2	NoGas	1.514	6.2	10792	2.7	20	
Na	23	45	1	He	18.395	9.1	57788	2.7	400	
Mg	24	45	1	He	0.918	61.2	1611	26.9	1000	
Al	27	45	1	He	6.933	5.9	3640	3.6	50	
K	39	45	1	He	7.455	37.7	65363	1.2	1000	
Ca	44	45	1	He	12.341	16.0	960	8.4	1000	
Ti	47	45	1	He	2.650	6.2	540	7.5	20	
V	51	45	1	He	0.104	55.2	787	38.7	2	
Cr	52	45	1	He	0.004	463.8	2839	3.5	2	
Mn	55	45	1	He	0.129	19.2	740	14.6	2	
Fe	56	45	1	He	11.112	16.5	70457	14.0	50	
Co	59	103	1	He	0.004	12.6	96	7.3	1	
Ni	60	103	1	He	0.002	563.6	102	30.3	2	
Cu	63	103	1	He	-0.106	-9.9	1745	2.3	2	
Zn	66	103	1	He	0.433	12.9	1490	5.1	20	
As	75	103	1	He	0.165	13.8	352	5.9	2	
Se	78	103	1	He	0.213	28.0	46	11.9	2	
Sr	88	103	1	He	0.208	12.8	1292	9.9	10	
Mo	95	103	1	He	0.638	12.0	2602	8.7	2	
Ag	107	103	1	He	0.002	62.8	58	29.0	0.2	
Cd	111	103	1	He	0.042	45.1	930	2.9	0.2	
Sn	118	115	1	He	0.408	9.1	2337	6.0	10	
Sb	123	115	1	He	0.227	15.8	1758	8.0	1	
Ba	137	115	1	He	0.033	34.2	63	27.3	5	
W	182	165	1	He	0.864	20.6	12465	15.6	10	
Tl	205	209	1	He	0.048	17.2	1620	12.4	0.5	
Pb	208	209	1	He	0.026	8.1	1765	3.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1614146	2.43	1803797	89.49	30	120	
Sc	45	1	He	537742	1.52	574766	93.56	30	120	
Sc	45	2	NoGas	4165235	1.08	4296857	96.94	30	120	
Rh	103	1	He	1667236	2.08	1652712	100.88	30	120	
In	115	1	He	833613	0.28	852389	97.80	30	120	
Tb	159	1	He	2468774	1.64	2425956	101.76	30	120	
Ho	165	1	He	2524028	1.50	2452680	102.91	30	120	
Bi	209	1	He	1848137	0.48	1810473	102.08	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-4-e@10
Data File Name	066SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:43:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.214	0.214	13.39	1011	0.02	10000	
B	11	45	2	NoGas	5.461	5.461	4.02	24825	0.02	300	
Na	23	45	1	He	164.960	164.960	1.04	291337	0.06	500000	
Mg	24	45	1	He	855.069	855.069	0.93	757288	0.11	500000	
Al	27	45	1	He	5070.762	5070.762	0.17	2333214	0.22	200000	
K	39	45	1	He	37.766	37.766	2.69	91943	0.04	500000	
Ca	44	45	1	He	176045.945	176045.945	1.42	6516160	2.70	500000	
Ti	47	45	1	He	13170.887	13170.887	1.85	2902496	0.45	2500	>LDR
V	51	45	1	He	1129.456	1129.456	0.46	6360448	0.02	10000	
Cr	52	45	1	He	511.423	511.423	0.81	3535810	0.01	10000	
Mn	55	45	1	He	1482.308	1482.308	0.65	7244304	0.02	10000	
Fe	56	45	1	He	55620.727	55620.727	1.08	351867995	0.02	200000	
Co	59	103	1	He	7.467	7.467	0.64	68243	0.01	10000	
Ni	60	103	1	He	16.417	16.417	1.34	38207	0.04	10000	
Cu	63	103	1	He	23.378	23.378	2.04	146951	0.02	10000	
Zn	66	103	1	He	110.425	110.425	1.32	139810	0.08	10000	
As	75	103	1	He	2.502	2.502	5.04	2165	0.12	10000	
Se	78	103	1	He	0.726	0.726	15.18	74	0.99	10000	
Sr	88	103	1	He	4385.454	4385.454	1.10	20805933	0.02	10000	
Mo	95	103	1	He	3.176	3.176	1.57	8722	0.04	2000	
Ag	107	103	1	He	0.184	0.184	14.05	1658	0.01	300	
Cd	111	103	1	He	0.974	0.974	11.15	2175	0.04	4000	
Sn	118	115	1	He	12.634	12.634	3.03	43334	0.03	2000	
Sb	123	115	1	He	0.146	0.146	36.77	1331	0.01	300	
Ba	137	115	1	He	10.966	10.966	0.36	15493	0.07	10000	
W	182	165	1	He	6.616	6.616	2.73	73560	0.01	2500	
Tl	205	209	1	He	0.043	0.043	6.08	1373	0.00	5000	
Pb	208	209	1	He	18.420	18.420	2.96	562035	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1507396	1.94	1803797	83.57	30	120	
Sc	45	1	He	583056	1.33	574766	101.44	30	120	
Sc	45	2	NoGas	4279839	0.48	4296857	99.60	30	120	
Rh	103	1	He	1431229	0.57	1652712	86.60	30	120	
In	115	1	He	769238	0.79	852389	90.24	30	120	
Tb	159	1	He	2342516	0.81	2425956	96.56	30	120	
Ho	165	1	He	2409342	1.69	2452680	98.23	30	120	
Bi	209	1	He	1682870	2.95	1810473	92.95	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-5-e@10
Data File Name	067SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:46:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.522	0.522	8.05	2523	0.02	10000	
B	11	45	2	NoGas	10.519	10.519	2.02	38994	0.03	300	
Na	23	45	1	He	267.966	267.966	1.26	402914	0.07	500000	
Mg	24	45	1	He	2117.859	2117.859	0.72	1670764	0.13	500000	
Al	27	45	1	He	8994.933	8994.933	0.44	3689056	0.24	200000	
K	39	45	1	He	564.412	564.412	2.03	407977	0.14	500000	
Ca	44	45	1	He	13347.079	13347.079	0.94	440924	3.03	500000	
Ti	47	45	1	He	239.111	239.111	0.57	46982	0.51	2500	
V	51	45	1	He	38.684	38.684	1.73	194414	0.02	10000	
Cr	52	45	1	He	45.077	45.077	1.44	280299	0.02	10000	
Mn	55	45	1	He	438.662	438.662	0.24	1911379	0.02	10000	
Fe	56	45	1	He	43605.009	43605.009	1.05	245926968	0.02	200000	
Co	59	103	1	He	5.450	5.450	1.19	54829	0.01	10000	
Ni	60	103	1	He	18.965	18.965	2.23	48559	0.04	10000	
Cu	63	103	1	He	80.404	80.404	0.81	550379	0.01	10000	
Zn	66	103	1	He	306.818	306.818	1.15	426048	0.07	10000	
As	75	103	1	He	8.543	8.543	1.39	7682	0.11	10000	
Se	78	103	1	He	0.731	0.731	15.20	81	0.90	10000	
Sr	88	103	1	He	271.712	271.712	3.78	1418683	0.02	10000	
Mo	95	103	1	He	2.267	2.267	1.64	7042	0.03	2000	
Ag	107	103	1	He	0.610	0.610	2.28	5972	0.01	300	
Cd	111	103	1	He	1.484	1.484	1.71	3225	0.05	4000	
Sn	118	115	1	He	89.628	89.628	1.96	307650	0.03	2000	
Sb	123	115	1	He	1.934	1.934	1.07	7843	0.02	300	
Ba	137	115	1	He	108.492	108.492	1.46	155716	0.07	10000	
W	182	165	1	He	1.148	1.148	4.38	15200	0.01	2500	
Tl	205	209	1	He	0.089	0.089	3.19	2651	0.00	5000	
Pb	208	209	1	He	289.970	289.970	1.60	9642706	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1542377	1.35	1803797	85.51	30	120	
Sc	45	1	He	519786	1.14	574766	90.43	30	120	
Sc	45	2	NoGas	3933334	0.73	4296857	91.54	30	120	
Rh	103	1	He	1575044	0.78	1652712	95.30	30	120	
In	115	1	He	782050	0.67	852389	91.75	30	120	
Tb	159	1	He	2373624	0.56	2425956	97.84	30	120	
Ho	165	1	He	2449846	0.48	2452680	99.88	30	120	
Bi	209	1	He	1835921	1.26	1810473	101.41	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-6-e@10
Data File Name	068SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:50:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.160	0.160	5.52	785	0.02	10000	
B	11	45	2	NoGas	3.395	3.395	9.31	16349	0.02	300	
Na	23	45	1	He	226.723	226.723	0.81	346032	0.07	500000	
Mg	24	45	1	He	835.677	835.677	0.36	660595	0.13	500000	
Al	27	45	1	He	4949.286	4949.286	1.66	2032651	0.24	200000	
K	39	45	1	He	201.104	201.104	1.48	183299	0.11	500000	
Ca	44	45	1	He	14508.277	14508.277	0.25	479882	3.02	500000	
Ti	47	45	1	He	119.664	119.664	2.10	23542	0.51	2500	
V	51	45	1	He	24.207	24.207	0.19	121915	0.02	10000	
Cr	52	45	1	He	18.654	18.654	1.44	117747	0.02	10000	
Mn	55	45	1	He	65.799	65.799	0.64	287200	0.02	10000	
Fe	56	45	1	He	7329.021	7329.021	1.69	41392151	0.02	200000	
Co	59	103	1	He	0.727	0.727	1.07	7427	0.01	10000	
Ni	60	103	1	He	3.562	3.562	1.10	9287	0.04	10000	
Cu	63	103	1	He	53.335	53.335	0.88	369534	0.01	10000	
Zn	66	103	1	He	38.146	38.146	0.57	54214	0.07	10000	
As	75	103	1	He	1.928	1.928	0.54	1898	0.10	10000	
Se	78	103	1	He	0.560	0.560	15.18	70	0.80	10000	
Sr	88	103	1	He	322.101	322.101	1.03	1698534	0.02	10000	
Mo	95	103	1	He	0.344	0.344	4.71	1646	0.02	2000	
Ag	107	103	1	He	0.260	0.260	4.05	2588	0.01	300	
Cd	111	103	1	He	0.213	0.213	22.29	1167	0.02	4000	
Sn	118	115	1	He	13.805	13.805	2.23	48953	0.03	2000	
Sb	123	115	1	He	0.092	0.092	18.64	1179	0.01	300	
Ba	137	115	1	He	24.648	24.648	0.72	36047	0.07	10000	
W	182	165	1	He	0.188	0.188	19.58	4775	0.00	2500	
Tl	205	209	1	He	0.054	0.054	8.05	1771	0.00	5000	
Pb	208	209	1	He	31.662	31.662	0.08	1050899	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1559225	0.58	1803797	86.44	30	120	
Sc	45	1	He	520447	0.58	574766	90.55	30	120	
Sc	45	2	NoGas	3968212	0.49	4296857	92.35	30	120	
Rh	103	1	He	1590792	1.14	1652712	96.25	30	120	
In	115	1	He	796606	0.30	852389	93.46	30	120	
Tb	159	1	He	2370330	1.78	2425956	97.71	30	120	
Ho	165	1	He	2472211	1.16	2452680	100.80	30	120	
Bi	209	1	He	1830814	0.53	1810473	101.12	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	069_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:54:26-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.161	3.075	227864	2.34	50	90.3	89.5	110.5	
B	11	45	2	NoGas	50.010	2.449	172876	2.38	50	100.0	89.5	110.5	
Na	23	45	1	He	26879.862	1.466	39185035	0.26	25000	107.5	89.5	110.5	
Mg	24	45	1	He	26668.971	1.430	22026499	0.15	25000	106.7	89.5	110.5	
Al	27	45	1	He	247.565	1.486	107043	0.78	250	99.0	89.5	110.5	
K	39	45	1	He	26342.897	1.278	17142103	0.71	25000	105.4	89.5	110.5	
Ca	44	45	1	He	25459.410	0.951	880554	0.61	25000	101.8	89.5	110.5	
Ti	47	45	1	He	59.636	2.122	12278	3.17	50	119.3	89.5	110.5	CCV Failed
V	51	45	1	He	54.063	0.885	284549	0.94	50	108.1	89.5	110.5	
Cr	52	45	1	He	53.440	1.381	347576	0.47	50	106.9	89.5	110.5	
Mn	55	45	1	He	259.518	1.471	1184496	0.17	250	103.8	89.5	110.5	
Fe	56	45	1	He	13371.996	0.938	79006244	0.75	12500	107.0	89.5	110.5	
Co	59	103	1	He	48.318	1.315	495582	0.58	50	96.6	89.5	110.5	
Ni	60	103	1	He	48.284	2.027	126012	1.07	50	96.6	89.5	110.5	
Cu	63	103	1	He	48.405	0.677	339125	1.30	50	96.8	89.5	110.5	
Zn	66	103	1	He	48.849	3.717	69896	1.89	50	97.7	89.5	110.5	
As	75	103	1	He	47.498	1.048	42719	1.35	50	95.0	89.5	110.5	
Se	78	103	1	He	46.767	1.873	3495	1.84	50	93.5	89.5	110.5	
Sr	88	103	1	He	47.574	1.850	253593	0.80	50	95.1	89.5	110.5	
Mo	95	103	1	He	51.077	2.200	147288	0.46	50	102.2	89.5	110.5	
Ag	107	103	1	He	50.305	1.134	500071	0.64	50	100.6	89.5	110.5	
Cd	111	103	1	He	50.468	1.525	84616	1.42	50	100.9	89.5	110.5	
Sn	118	115	1	He	51.572	1.065	183540	1.12	50	103.1	89.5	110.5	
Sb	123	115	1	He	53.090	0.479	200271	0.84	50	106.2	89.5	110.5	
Ba	137	115	1	He	52.501	0.596	77989	0.13	50	105.0	89.5	110.5	
W	182	165	1	He	49.285	1.286	552171	0.88	50	98.6	89.5	110.5	
Tl	205	209	1	He	48.663	1.184	1192118	0.14	50	97.3	89.5	110.5	
Pb	208	209	1	He	49.781	0.887	1605131	0.65	50	99.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612029	0.82	1803797	89.37	30	120	
Sc	45	1	He	544513	1.50	574766	94.74	30	120	
Sc	45	2	NoGas	4114009	0.51	4296857	95.74	30	120	
Rh	103	1	He	1607510	1.76	1652712	97.26	30	120	
In	115	1	He	809313	0.68	852389	94.95	30	120	
Tb	159	1	He	2449654	1.34	2425956	100.98	30	120	
Ho	165	1	He	2505225	0.77	2452680	102.14	30	120	
Bi	209	1	He	1779235	1.28	1810473	98.27	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	070_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:58:17-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.037	27.7	189	25.6	1	
B	11	45	2	NoGas	1.258	3.5	9885	0.7	20	
Na	23	45	1	He	17.344	7.7	56788	2.8	400	
Mg	24	45	1	He	0.980	72.4	1678	34.0	1000	
Al	27	45	1	He	6.295	2.3	3400	1.3	50	
K	39	45	1	He	7.320	19.2	65868	1.2	1000	
Ca	44	45	1	He	5.875	46.2	744	12.1	1000	
Ti	47	45	1	He	0.975	6.3	201	6.9	20	
V	51	45	1	He	0.096	87.9	751	59.0	2	
Cr	52	45	1	He	0.018	174.4	2954	7.4	2	
Mn	55	45	1	He	0.089	26.0	562	18.2	2	
Fe	56	45	1	He	9.757	19.9	63142	17.5	50	
Co	59	103	1	He	0.006	81.9	117	43.2	1	
Ni	60	103	1	He	0.000	1016.9	99	12.8	2	
Cu	63	103	1	He	-0.112	-16.8	1716	7.2	2	
Zn	66	103	1	He	0.467	18.5	1556	7.6	20	
As	75	103	1	He	0.098	10.4	293	4.1	2	
Se	78	103	1	He	0.125	31.4	40	6.9	2	
Sr	88	103	1	He	0.094	9.1	671	7.9	10	
Mo	95	103	1	He	0.648	14.1	2659	10.7	2	
Ag	107	103	1	He	0.003	52.9	67	26.0	0.2	
Cd	111	103	1	He	0.034	34.6	925	2.7	0.2	
Sn	118	115	1	He	0.326	6.0	2045	3.0	10	
Sb	123	115	1	He	0.187	24.9	1608	11.4	1	
Ba	137	115	1	He	0.025	34.1	52	25.8	5	
W	182	165	1	He	0.784	16.0	11686	11.6	10	
Tl	205	209	1	He	0.036	16.1	1331	11.4	0.5	
Pb	208	209	1	He	0.018	17.1	1539	6.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1604701	1.56	1803797	88.96	30	120	
Sc	45	1	He	542486	0.68	574766	94.38	30	120	
Sc	45	2	NoGas	4148603	0.94	4296857	96.55	30	120	
Rh	103	1	He	1684049	0.80	1652712	101.90	30	120	
In	115	1	He	837292	0.46	852389	98.23	30	120	
Tb	159	1	He	2480584	0.91	2425956	102.25	30	120	
Ho	165	1	He	2551975	0.61	2452680	104.05	30	120	
Bi	209	1	He	1877441	0.39	1810473	103.70	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	071CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:02:09-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.918	0.918	6.951	4786	6.24	1	91.8	69.5	130.5	
B	11	2	NoGas	18.797	18.797	1.488	70106	1.02	20	94.0	69.5	130.5	
Na	23	1	He	1131.123	1131.123	1.981	1700259	1.68	1000	113.1	69.5	130.5	
Mg	24	1	He	1077.990	1077.990	1.026	902291	0.66	1000	107.8	69.5	130.5	
Al	27	1	He	50.727	50.727	2.079	22779	2.24	50	101.5	69.5	130.5	
K	39	1	He	1068.406	1068.406	0.572	763524	0.83	1000	106.8	69.5	130.5	
Ca	44	1	He	1037.578	1037.578	0.196	36862	0.58	1000	103.8	69.5	130.5	
Ti	47	1	He	11.757	11.757	4.311	2451	4.71	10	117.6	69.5	130.5	
V	51	1	He	5.434	5.434	2.481	29180	2.06	5	108.7	69.5	130.5	
Cr	52	1	He	3.141	3.141	1.295	23399	0.95	2	157.0	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	5.512	5.512	0.831	25628	1.18	5	110.2	69.5	130.5	
Fe	56	1	He	116.170	116.170	0.829	700686	0.50	100	116.2	69.5	130.5	
Co	59	1	He	0.985	0.985	4.154	10643	5.32	1	98.5	69.5	130.5	
Ni	60	1	He	2.463	2.463	1.760	6829	1.86	2	123.1	69.5	130.5	
Cu	63	1	He	1.822	1.822	1.246	15820	1.04	2	91.1	69.5	130.5	
Zn	66	1	He	19.379	19.379	0.574	29592	1.69	20	96.9	69.5	130.5	
As	75	1	He	4.610	4.610	1.362	4526	0.54	5	92.2	69.5	130.5	
Se	78	1	He	4.673	4.673	1.557	393	2.78	5	93.5	69.5	130.5	
Sr	88	1	He	9.344	9.344	1.393	52319	0.66	10	93.4	69.5	130.5	
Mo	95	1	He	9.916	9.916	0.864	30545	1.85	10	99.2	69.5	130.5	
Ag	107	1	He	1.019	1.019	1.130	10651	0.80	1	101.9	69.5	130.5	
Cd	111	1	He	1.007	1.007	2.388	2619	3.40	1	100.7	69.5	130.5	
Sn	118	1	He	10.282	10.282	2.077	38845	2.38	10	102.8	69.5	130.5	
Sb	123	1	He	1.990	1.990	2.083	8683	2.28	2	99.5	69.5	130.5	
Ba	137	1	He	5.107	5.107	2.467	7923	2.70	5	102.1	69.5	130.5	
W	182	1	He	9.598	9.598	0.507	112931	0.79	10	96.0	69.5	130.5	
Tl	205	1	He	1.978	1.978	1.101	50993	0.86	2	98.9	69.5	130.5	
Pb	208	1	He	1.073	1.073	0.640	37037	0.88	1	107.3	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1665752	1.92	1803797	92.35	30	120	
Sc	45	1	He	551240	0.40	574766	95.91	30	120	
Sc	45	2	NoGas	4212441	0.82	4296857	98.04	30	120	
Rh	103	1	He	1684609	1.80	1652712	101.93	30	120	
In	115	1	He	843911	0.46	852389	99.01	30	120	
Tb	159	1	He	2491240	0.85	2425956	102.69	30	120	
Ho	165	1	He	2578089	0.96	2452680	105.11	30	120	
Bi	209	1	He	1858153	0.26	1810473	102.63	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-1-a@2
Data File Name	072SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:06:01-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.261	1.261	2.49	6201	0.02	10000	
B	11	45	2	NoGas	2.440	2.440	4.46	13769	0.02	300	
Na	23	45	1	He	296.912	296.912	0.49	462315	0.06	500000	
Mg	24	45	1	He	261.147	261.147	0.48	215677	0.12	500000	
Al	27	45	1	He	8540.584	8540.584	0.81	3653861	0.23	200000	
K	39	45	1	He	725.265	725.265	0.40	529442	0.14	500000	
Ca	44	45	1	He	333.308	333.308	1.52	12015	2.77	500000	
Ti	47	45	1	He	131.429	131.429	2.83	26937	0.49	2500	
V	51	45	1	He	46.210	46.210	1.07	242230	0.02	10000	
Cr	52	45	1	He	36.138	36.138	0.65	234997	0.02	10000	
Mn	55	45	1	He	82.210	82.210	0.42	373813	0.02	10000	
Fe	56	45	1	He	88661.842	88661.842	0.91	521635250	0.02	200000	
Co	59	103	1	He	7.081	7.081	2.27	69184	0.01	10000	
Ni	60	103	1	He	3.591	3.591	0.59	9007	0.04	10000	
Cu	63	103	1	He	105.602	105.602	1.79	701598	0.02	10000	
Zn	66	103	1	He	69.305	69.305	3.39	94082	0.07	10000	
As	75	103	1	He	8.702	8.702	2.81	7598	0.11	10000	
Se	78	103	1	He	2.101	2.101	9.23	176	1.20	10000	
Sr	88	103	1	He	5.947	5.947	4.63	30282	0.02	10000	
Mo	95	103	1	He	3.157	3.157	2.17	9273	0.03	2000	
Ag	107	103	1	He	0.029	0.029	12.40	300	0.01	300	
Cd	111	103	1	He	0.232	0.232	9.98	1154	0.02	4000	
Sn	118	115	1	He	16.893	16.893	4.46	57494	0.03	2000	
Sb	123	115	1	He	0.218	0.218	20.03	1585	0.01	300	
Ba	137	115	1	He	41.761	41.761	1.17	58799	0.07	10000	
W	182	165	1	He	0.506	0.506	11.61	8177	0.01	2500	
Tl	205	209	1	He	0.295	0.295	1.84	7701	0.00	5000	
Pb	208	209	1	He	24.021	24.021	2.22	783190	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1570437	2.65	1803797	87.06	30	120	
Sc	45	1	He	542213	0.81	574766	94.34	30	120	
Sc	45	2	NoGas	4117762	1.53	4296857	95.83	30	120	
Rh	103	1	He	1530656	2.60	1652712	92.61	30	120	
In	115	1	He	767078	0.92	852389	89.99	30	120	
Tb	159	1	He	2384003	1.43	2425956	98.27	30	120	
Ho	165	1	He	2445205	1.61	2452680	99.70	30	120	
Bi	209	1	He	1798413	1.63	1810473	99.33	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-2-a@2
Data File Name	073SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:09:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.555	1.555	11.10	7431	0.02	10000	
B	11	45	2	NoGas	4.957	4.957	7.10	22863	0.02	300	
Na	23	45	1	He	1222.094	1222.094	1.37	1956166	0.06	500000	
Mg	24	45	1	He	1081.704	1081.704	0.48	965574	0.11	500000	
Al	27	45	1	He	12729.164	12729.164	0.79	5904077	0.22	200000	
K	39	45	1	He	3141.426	3141.426	1.78	2265177	0.14	500000	
Ca	44	45	1	He	509.813	509.813	0.80	19614	2.60	500000	
Ti	47	45	1	He	237.965	237.965	0.70	52882	0.45	2500	
V	51	45	1	He	240.862	240.862	0.39	1367968	0.02	10000	
Cr	52	45	1	He	104.305	104.305	1.47	729481	0.01	10000	
Mn	55	45	1	He	54.592	54.592	1.57	269143	0.02	10000	
Fe	56	45	1	He	91820.152	91820.152	1.01	585676297	0.02	200000	
Co	59	103	1	He	2.631	2.631	3.21	26129	0.01	10000	
Ni	60	103	1	He	4.507	4.507	5.29	11448	0.04	10000	
Cu	63	103	1	He	33.041	33.041	1.57	224546	0.01	10000	
Zn	66	103	1	He	24.913	24.913	1.20	34871	0.07	10000	
As	75	103	1	He	3.026	3.026	2.54	2804	0.11	10000	
Se	78	103	1	He	5.476	5.476	5.56	420	1.30	10000	
Sr	88	103	1	He	12.981	12.981	1.62	67006	0.02	10000	
Mo	95	103	1	He	0.360	0.360	7.36	1653	0.02	2000	
Ag	107	103	1	He	0.020	0.020	11.83	224	0.01	300	
Cd	111	103	1	He	0.864	0.864	3.10	2187	0.04	4000	
Sn	118	115	1	He	17.224	17.224	1.31	59349	0.03	2000	
Sb	123	115	1	He	0.348	0.348	4.62	2071	0.02	300	
Ba	137	115	1	He	94.097	94.097	0.71	134136	0.07	10000	
W	182	165	1	He	0.198	0.198	7.62	5105	0.00	2500	
Tl	205	209	1	He	0.544	0.544	3.86	13563	0.00	5000	
Pb	208	209	1	He	42.624	42.624	0.73	1358591	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1527612	1.44	1803797	84.69	30	120	
Sc	45	1	He	587900	2.04	574766	102.29	30	120	
Sc	45	2	NoGas	4241264	0.40	4296857	98.71	30	120	
Rh	103	1	He	1554548	2.95	1652712	94.06	30	120	
In	115	1	He	776660	0.79	852389	91.12	30	120	
Tb	159	1	He	2485686	0.79	2425956	102.46	30	120	
Ho	165	1	He	2582571	1.24	2452680	105.30	30	120	
Bi	209	1	He	1758533	0.32	1810473	97.13	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-3-a@2
Data File Name	074SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:13:44-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.591	0.591	10.07	2871	0.02	10000	
B	11	45	2	NoGas	2.159	2.159	3.23	12879	0.02	300	
Na	23	45	1	He	586.049	586.049	0.36	882600	0.07	500000	
Mg	24	45	1	He	1668.745	1668.745	2.91	1375035	0.12	500000	
Al	27	45	1	He	33952.907	33952.907	0.63	14538209	0.23	200000	
K	39	45	1	He	1253.568	1253.568	0.48	871436	0.14	500000	
Ca	44	45	1	He	1778.020	1778.020	0.73	61804	2.88	500000	
Ti	47	45	1	He	214.439	214.439	1.63	43992	0.49	2500	
V	51	45	1	He	190.911	190.911	0.38	1000983	0.02	10000	
Cr	52	45	1	He	60.672	60.672	0.20	392999	0.02	10000	
Mn	55	45	1	He	70.329	70.329	0.31	320109	0.02	10000	
Fe	56	45	1	He	59555.703	59555.703	1.14	350708919	0.02	200000	
Co	59	103	1	He	5.242	5.242	2.41	49581	0.01	10000	
Ni	60	103	1	He	9.548	9.548	3.29	23026	0.04	10000	
Cu	63	103	1	He	43.830	43.830	2.21	283125	0.02	10000	
Zn	66	103	1	He	32.250	32.250	1.70	42798	0.08	10000	
As	75	103	1	He	8.932	8.932	1.61	7546	0.12	10000	
Se	78	103	1	He	2.034	2.034	11.56	165	1.23	10000	
Sr	88	103	1	He	7.882	7.882	4.15	38810	0.02	10000	
Mo	95	103	1	He	2.735	2.735	1.60	7861	0.03	2000	
Ag	107	103	1	He	0.020	0.020	14.44	212	0.01	300	
Cd	111	103	1	He	0.287	0.287	19.57	1202	0.02	4000	
Sn	118	115	1	He	16.509	16.509	0.63	56048	0.03	2000	
Sb	123	115	1	He	0.218	0.218	10.00	1580	0.01	300	
Ba	137	115	1	He	92.160	92.160	1.68	129327	0.07	10000	
W	182	165	1	He	0.196	0.196	21.31	4716	0.00	2500	
Tl	205	209	1	He	0.582	0.582	2.43	14289	0.00	5000	
Pb	208	209	1	He	31.214	31.214	1.73	981940	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1550391	0.86	1803797	85.95	30	120	
Sc	45	1	He	542743	1.24	574766	94.43	30	120	
Sc	45	2	NoGas	4133994	0.83	4296857	96.21	30	120	
Rh	103	1	He	1481554	2.90	1652712	89.64	30	120	
In	115	1	He	764702	1.63	852389	89.71	30	120	
Tb	159	1	He	2352794	1.12	2425956	96.98	30	120	
Ho	165	1	He	2394898	2.17	2452680	97.64	30	120	
Bi	209	1	He	1735620	2.26	1810473	95.87	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-4-a@2
Data File Name	075SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:17:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.733	0.733	1.03	3367	0.02	10000	
B	11	45	2	NoGas	2.363	2.363	7.65	12942	0.02	300	
Na	23	45	1	He	290.962	290.962	1.04	443693	0.07	500000	
Mg	24	45	1	He	150.200	150.200	1.21	121673	0.12	500000	
Al	27	45	1	He	7309.844	7309.844	1.11	3058754	0.24	200000	
K	39	45	1	He	1570.264	1570.264	0.71	1051396	0.15	500000	
Ca	44	45	1	He	164.881	164.881	1.56	6081	2.71	500000	
Ti	47	45	1	He	215.432	215.432	2.08	43183	0.50	2500	
V	51	45	1	He	95.176	95.176	1.17	487701	0.02	10000	
Cr	52	45	1	He	26.261	26.261	1.34	167770	0.02	10000	
Mn	55	45	1	He	86.252	86.252	1.63	383538	0.02	10000	
Fe	56	45	1	He	38369.394	38369.394	1.15	220779356	0.02	200000	
Co	59	103	1	He	1.511	1.511	0.33	14306	0.01	10000	
Ni	60	103	1	He	2.384	2.384	3.94	5803	0.04	10000	
Cu	63	103	1	He	30.820	30.820	0.43	199390	0.02	10000	
Zn	66	103	1	He	35.734	35.734	1.62	47242	0.08	10000	
As	75	103	1	He	10.165	10.165	1.16	8546	0.12	10000	
Se	78	103	1	He	3.218	3.218	6.17	246	1.31	10000	
Sr	88	103	1	He	9.201	9.201	1.54	45215	0.02	10000	
Mo	95	103	1	He	1.914	1.914	4.51	5674	0.03	2000	
Ag	107	103	1	He	0.054	0.054	11.10	527	0.01	300	
Cd	111	103	1	He	0.411	0.411	8.22	1388	0.03	4000	
Sn	118	115	1	He	17.608	17.608	1.18	58836	0.03	2000	
Sb	123	115	1	He	0.263	0.263	15.77	1713	0.02	300	
Ba	137	115	1	He	59.823	59.823	1.06	82719	0.07	10000	
W	182	165	1	He	0.053	0.053	72.94	3289	0.00	2500	
Tl	205	209	1	He	0.287	0.287	5.19	7051	0.00	5000	
Pb	208	209	1	He	51.003	51.003	1.80	1563207	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1466392	1.38	1803797	81.29	30	120	
Sc	45	1	He	530278	0.47	574766	92.26	30	120	
Sc	45	2	NoGas	3944061	0.67	4296857	91.79	30	120	
Rh	103	1	He	1478270	0.25	1652712	89.45	30	120	
In	115	1	He	753318	0.30	852389	88.38	30	120	
Tb	159	1	He	2424072	3.97	2425956	99.92	30	120	
Ho	165	1	He	2477215	3.88	2452680	101.00	30	120	
Bi	209	1	He	1691415	1.27	1810473	93.42	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-5-a@2
Data File Name	076SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:21:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.865	3.865	1.71	18061	0.02	10000	
B	11	45	2	NoGas	3.353	3.353	2.14	17935	0.02	300	
Na	23	45	1	He	797.126	797.126	0.54	1284666	0.06	500000	
Mg	24	45	1	He	54999.045	54999.045	0.75	48920972	0.11	500000	
Al	27	45	1	He	79557.995	79557.995	1.09	36801433	0.22	200000	
K	39	45	1	He	9081.979	9081.979	0.60	6408245	0.14	500000	
Ca	44	45	1	He	12298.736	12298.736	0.17	458402	2.68	500000	
Ti	47	45	1	He	2700.753	2700.753	0.80	598620	0.45	2500	>LDR
V	51	45	1	He	266.536	266.536	0.43	1509703	0.02	10000	
Cr	52	45	1	He	1093.574	1093.574	1.11	7600198	0.01	10000	
Mn	55	45	1	He	2018.579	2018.579	1.25	9921257	0.02	10000	
Fe	56	45	1	He	121203.409	121203.409	0.48	771144787	0.02	200000	
Co	59	103	1	He	91.606	91.606	1.06	811625	0.01	10000	
Ni	60	103	1	He	298.110	298.110	0.04	671738	0.04	10000	
Cu	63	103	1	He	208.579	208.579	0.49	1255369	0.02	10000	
Zn	66	103	1	He	221.390	221.390	1.20	271222	0.08	10000	
As	75	103	1	He	9.139	9.139	0.58	7234	0.13	10000	
Se	78	103	1	He	3.283	3.283	0.74	235	1.40	10000	
Sr	88	103	1	He	51.453	51.453	0.51	236937	0.02	10000	
Mo	95	103	1	He	1.624	1.624	2.57	4612	0.04	2000	
Ag	107	103	1	He	0.060	0.060	5.64	542	0.01	300	
Cd	111	103	1	He	0.653	0.653	10.11	1650	0.04	4000	
Sn	118	115	1	He	17.644	17.644	2.65	56536	0.03	2000	
Sb	123	115	1	He	0.165	0.165	7.93	1313	0.01	300	
Ba	137	115	1	He	492.559	492.559	0.84	653000	0.08	10000	
W	182	165	1	He	0.359	0.359	7.98	6446	0.01	2500	
Tl	205	209	1	He	0.790	0.790	0.91	17492	0.00	5000	
Pb	208	209	1	He	64.717	64.717	0.62	1849932	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1492500	1.32	1803797	82.74	30	120	
Sc	45	1	He	586357	0.69	574766	102.02	30	120	
Sc	45	2	NoGas	4388766	1.74	4296857	102.14	30	120	
Rh	103	1	He	1388513	0.60	1652712	84.01	30	120	
In	115	1	He	722394	0.78	852389	84.75	30	120	
Tb	159	1	He	2348383	0.69	2425956	96.80	30	120	
Ho	165	1	He	2393825	0.86	2452680	97.60	30	120	
Bi	209	1	He	1577458	0.60	1810473	87.13	30	120	

Sample Report

Sample Table

Sample Name	240-49409-g-6-b
Data File Name	077SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:25:19-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.035	0.035	19.90	167	0.02	10000	
B	11	45	2	NoGas	45.569	45.569	1.74	144440	0.03	300	
Na	23	45	1	He	261697.783	261697.783	1.27	345379920	0.08	500000	
Mg	24	45	1	He	22549.998	22549.998	1.07	16873647	0.13	500000	
Al	27	45	1	He	19.192	19.192	8.06	8111	0.24	200000	
K	39	45	1	He	7314.416	7314.416	1.98	4352370	0.17	500000	
Ca	44	45	1	He	59399.891	59399.891	0.25	1860564	3.19	500000	
Ti	47	45	1	He	2.444	2.444	11.37	457	0.54	2500	
V	51	45	1	He	0.343	0.343	36.96	1859	0.02	10000	
Cr	52	45	1	He	1.275	1.275	0.70	10032	0.01	10000	
Mn	55	45	1	He	8967.892	8967.892	1.07	37078520	0.02	10000	
Fe	56	45	1	He	16290.255	16290.255	1.10	87193334	0.02	200000	
Co	59	103	1	He	593.384	593.384	0.59	5133748	0.01	10000	
Ni	60	103	1	He	32.799	32.799	0.81	72239	0.05	10000	
Cu	63	103	1	He	3.691	3.691	2.17	23699	0.02	10000	
Zn	66	103	1	He	24.180	24.180	1.89	29545	0.08	10000	
As	75	103	1	He	0.953	0.953	4.53	881	0.11	10000	
Se	78	103	1	He	0.340	0.340	21.81	46	0.74	10000	
Sr	88	103	1	He	213.380	213.380	0.44	959144	0.02	10000	
Mo	95	103	1	He	1.294	1.294	4.84	3704	0.03	2000	
Ag	107	103	1	He	0.003	0.003	36.24	53	0.01	300	
Cd	111	103	1	He	0.152	0.152	21.71	910	0.02	4000	
Sn	118	115	1	He	0.387	0.387	8.85	1956	0.02	2000	
Sb	123	115	1	He	0.157	0.157	16.72	1286	0.01	300	
Ba	137	115	1	He	164.625	164.625	0.88	217905	0.08	10000	
W	182	165	1	He	0.057	0.057	78.86	3156	0.00	2500	
Tl	205	209	1	He	0.558	0.558	3.36	12112	0.00	5000	
Pb	208	209	1	He	0.226	0.226	4.56	7021	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1480468	1.85	1803797	82.08	30	120	
Sc	45	1	He	493259	0.29	574766	85.82	30	120	
Sc	45	2	NoGas	3760878	1.20	4296857	87.53	30	120	
Rh	103	1	He	1355874	0.53	1652712	82.04	30	120	
In	115	1	He	721215	0.39	852389	84.61	30	120	
Tb	159	1	He	2268202	0.58	2425956	93.50	30	120	
Ho	165	1	He	2336361	0.80	2452680	95.26	30	120	
Bi	209	1	He	1533362	0.54	1810473	84.69	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49409-g-6-b@5
Data File Name	078SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:29:10-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.032	0.032	51.52	163	0.02	10000	
B	11	45	2	NoGas	8.943	8.943	3.73	34255	0.03	300	
Na	23	45	1	He	52680.910	52680.910	2.31	74022006	0.07	500000	
Mg	24	45	1	He	4623.738	4623.738	1.43	3683217	0.13	500000	
Al	27	45	1	He	11.645	11.645	2.55	5509	0.21	200000	
K	39	45	1	He	1438.295	1438.295	2.58	958368	0.15	500000	
Ca	44	45	1	He	11518.005	11518.005	0.63	384444	3.00	500000	
Ti	47	45	1	He	0.674	0.674	57.94	136	0.50	2500	
V	51	45	1	He	0.091	0.091	67.52	703	0.01	10000	
Cr	52	45	1	He	0.263	0.263	6.15	4383	0.01	10000	
Mn	55	45	1	He	1836.432	1836.432	2.40	8081239	0.02	10000	
Fe	56	45	1	He	3338.008	3338.008	1.86	19020274	0.02	200000	
Co	59	103	1	He	114.203	114.203	1.37	1112987	0.01	10000	
Ni	60	103	1	He	6.560	6.560	2.26	16344	0.04	10000	
Cu	63	103	1	He	0.623	0.623	4.40	6415	0.01	10000	
Zn	66	103	1	He	5.046	5.046	3.58	7567	0.07	10000	
As	75	103	1	He	0.137	0.137	12.08	298	0.05	10000	
Se	78	103	1	He	0.097	0.097	109.39	34	0.28	10000	
Sr	88	103	1	He	41.099	41.099	1.45	208202	0.02	10000	
Mo	95	103	1	He	0.072	0.072	19.32	839	0.01	2000	
Ag	107	103	1	He	-0.002	-0.002	-34.36	16	-0.01	300	
Cd	111	103	1	He	0.061	0.061	20.77	881	0.01	4000	
Sn	118	115	1	He	-0.006	-0.006	-703.31	782	0.00	2000	
Sb	123	115	1	He	-0.006	-0.006	-208.51	810	0.00	300	
Ba	137	115	1	He	32.687	32.687	1.67	47404	0.07	10000	
W	182	165	1	He	0.008	0.008	436.61	2767	0.00	2500	
Tl	205	209	1	He	0.100	0.100	6.97	2865	0.00	5000	
Pb	208	209	1	He	0.041	0.041	5.90	2203	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1569380	1.78	1803797	87.00	30	120	
Sc	45	1	He	525065	1.43	574766	91.35	30	120	
Sc	45	2	NoGas	3969693	1.24	4296857	92.39	30	120	
Rh	103	1	He	1527472	1.44	1652712	92.42	30	120	
In	115	1	He	790014	0.49	852389	92.68	30	120	
Tb	159	1	He	2379986	0.72	2425956	98.11	30	120	
Ho	165	1	He	2453740	1.31	2452680	100.04	30	120	
Bi	209	1	He	1789957	0.49	1810473	98.87	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49409-g-6-b
Data File Name	079SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:33:01-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1081.530	1081.530	1.03	5139117	0.02	10000	
B	11	45	2	NoGas	160.094	160.094	0.59	512600	0.03	300	
Na	23	45	1	He	263104.248	263104.248	0.73	347467742	0.08	500000	
Mg	24	45	1	He	32171.113	32171.113	1.11	24088234	0.13	500000	
Al	27	45	1	He	9879.716	9879.716	0.47	3847726	0.26	200000	
K	39	45	1	He	17565.227	17565.227	0.85	10380649	0.17	500000	
Ca	44	45	1	He	68166.462	68166.462	1.11	2136597	3.19	500000	
Ti	47	45	1	He	106.996	106.996	2.67	19963	0.54	2500	
V	51	45	1	He	1110.223	1110.223	0.44	5292899	0.02	10000	
Cr	52	45	1	He	1074.701	1074.701	1.59	6287284	0.02	10000	
Mn	55	45	1	He	9780.885	9780.885	1.41	40466282	0.02	10000	
Fe	56	45	1	He	26486.486	26486.486	1.64	141855648	0.02	200000	
Co	59	103	1	He	1604.147	1604.147	1.81	13733379	0.01	10000	
Ni	60	103	1	He	1082.986	1082.986	0.74	2357924	0.05	10000	
Cu	63	103	1	He	1038.189	1038.189	1.44	6029737	0.02	10000	
Zn	66	103	1	He	1015.128	1015.128	1.22	1199258	0.08	10000	
As	75	103	1	He	1022.966	1022.966	0.86	764700	0.13	10000	
Se	78	103	1	He	987.936	987.936	1.47	61148	1.62	10000	
Sr	88	103	1	He	1283.459	1283.459	1.96	5708110	0.02	10000	
Mo	95	103	1	He	117.358	117.358	1.26	281796	0.04	2000	
Ag	107	103	1	He	104.755	104.755	1.18	869227	0.01	300	
Cd	111	103	1	He	1044.272	1044.272	1.36	1447892	0.07	4000	
Sn	118	115	1	He	1140.531	1140.531	0.88	3473621	0.03	2000	
Sb	123	115	1	He	111.221	111.221	0.61	359800	0.03	300	
Ba	137	115	1	He	1346.453	1346.453	1.36	1718895	0.08	10000	
W	182	165	1	He	101.462	101.462	0.78	1048309	0.01	2500	
Tl	205	209	1	He	264.444	264.444	1.38	5346615	0.00	5000	
Pb	208	209	1	He	1116.063	1116.063	0.96	29693049	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1517966	0.61	1803797	84.15	30	120	
Sc	45	1	He	493590	0.53	574766	85.88	30	120	
Sc	45	2	NoGas	3897439	0.87	4296857	90.70	30	120	
Rh	103	1	He	1341791	1.02	1652712	81.19	30	120	
In	115	1	He	695575	0.59	852389	81.60	30	120	
Tb	159	1	He	2244205	0.77	2425956	92.51	30	120	
Ho	165	1	He	2316194	0.61	2452680	94.44	30	120	
Bi	209	1	He	1468769	0.69	1810473	81.13	30	120	

Sample Report

Sample Table

Sample Name	240-49409-g-6-c ms
Data File Name	080SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:36:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1100.348	1100.348	2.09	5297342	0.02	10000	
B	11	45	2	NoGas	177.127	177.127	0.98	564618	0.03	300	
Na	23	45	1	He	302965.338	302965.338	0.32	399580117	0.08	500000	
Mg	24	45	1	He	36094.151	36094.151	0.66	26988802	0.13	500000	
Al	27	45	1	He	10457.208	10457.208	1.34	4066725	0.26	200000	
K	39	45	1	He	19101.177	19101.177	1.88	11267276	0.17	500000	
Ca	44	45	1	He	77083.051	77083.051	1.91	2412387	3.20	500000	
Ti	47	45	1	He	109.609	109.609	2.03	20422	0.54	2500	
V	51	45	1	He	1117.600	1117.600	0.97	5320469	0.02	10000	
Cr	52	45	1	He	1096.555	1096.555	0.77	6406887	0.02	10000	
Mn	55	45	1	He	11135.796	11135.796	2.15	46008024	0.02	10000	>LDR
Fe	56	45	1	He	29255.512	29255.512	1.81	156460265	0.02	200000	
Co	59	103	1	He	1742.053	1742.053	1.15	14792129	0.01	10000	
Ni	60	103	1	He	1135.870	1135.870	0.33	2452969	0.05	10000	
Cu	63	103	1	He	1067.810	1067.810	1.34	6151368	0.02	10000	
Zn	66	103	1	He	1040.540	1040.540	0.75	1219226	0.09	10000	
As	75	103	1	He	1051.695	1051.695	1.75	779675	0.13	10000	
Se	78	103	1	He	1012.191	1012.191	2.36	62130	1.63	10000	
Sr	88	103	1	He	1371.976	1371.976	0.38	6052956	0.02	10000	
Mo	95	103	1	He	125.590	125.590	0.69	299081	0.04	2000	
Ag	107	103	1	He	108.837	108.837	2.54	895584	0.01	300	
Cd	111	103	1	He	1066.405	1066.405	1.78	1466394	0.07	4000	
Sn	118	115	1	He	1180.849	1180.849	0.74	3581636	0.03	2000	
Sb	123	115	1	He	114.008	114.008	1.67	367244	0.03	300	
Ba	137	115	1	He	1398.024	1398.024	0.71	1777255	0.08	10000	
W	182	165	1	He	105.376	105.376	1.05	1105227	0.01	2500	
Tl	205	209	1	He	271.187	271.187	1.51	5492239	0.00	5000	
Pb	208	209	1	He	1136.134	1136.134	0.22	30277872	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1537872	0.42	1803797	85.26	30	120	
Sc	45	1	He	492920	1.15	574766	85.76	30	120	
Sc	45	2	NoGas	3883934	0.29	4296857	90.39	30	120	
Rh	103	1	He	1330859	1.48	1652712	80.53	30	120	
In	115	1	He	692712	0.64	852389	81.27	30	120	
Tb	159	1	He	2263675	0.32	2425956	93.31	30	120	
Ho	165	1	He	2351570	1.27	2452680	95.88	30	120	
Bi	209	1	He	1471222	0.36	1810473	81.26	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	081_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:40:21-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	43.579	0.944	234995	1.25	50	87.2	89.5	110.5	CCV Failed
B	11	45	2	NoGas	50.728	1.116	183849	1.03	50	101.5	89.5	110.5	
Na	23	45	1	He	26417.616	2.084	39895391	0.72	25000	105.7	89.5	110.5	
Mg	24	45	1	He	26130.965	0.974	22361647	1.62	25000	104.5	89.5	110.5	
Al	27	45	1	He	247.589	1.798	110907	1.44	250	99.0	89.5	110.5	
K	39	45	1	He	25947.104	1.602	17493261	1.26	25000	103.8	89.5	110.5	
Ca	44	45	1	He	24847.785	2.093	890238	0.54	25000	99.4	89.5	110.5	
Ti	47	45	1	He	51.288	0.961	10939	2.39	50	102.6	89.5	110.5	
V	51	45	1	He	51.691	1.322	281866	1.34	50	103.4	89.5	110.5	
Cr	52	45	1	He	51.395	1.464	346439	1.52	50	102.8	89.5	110.5	
Mn	55	45	1	He	253.245	1.681	1197479	0.97	250	101.3	89.5	110.5	
Fe	56	45	1	He	13018.614	1.097	79690559	1.52	12500	104.1	89.5	110.5	
Co	59	103	1	He	48.200	2.250	497170	1.68	50	96.4	89.5	110.5	
Ni	60	103	1	He	48.095	1.477	126238	0.79	50	96.2	89.5	110.5	
Cu	63	103	1	He	48.462	1.430	341423	1.07	50	96.9	89.5	110.5	
Zn	66	103	1	He	47.798	2.671	68809	1.29	50	95.6	89.5	110.5	
As	75	103	1	He	48.891	2.085	44210	0.97	50	97.8	89.5	110.5	
Se	78	103	1	He	47.846	1.535	3595	0.50	50	95.7	89.5	110.5	
Sr	88	103	1	He	47.852	1.369	256534	0.64	50	95.7	89.5	110.5	
Mo	95	103	1	He	50.810	1.483	147370	0.95	50	101.6	89.5	110.5	
Ag	107	103	1	He	49.548	2.434	495271	1.10	50	99.1	89.5	110.5	
Cd	111	103	1	He	49.816	1.862	84000	0.77	50	99.6	89.5	110.5	
Sn	118	115	1	He	51.517	1.781	186710	1.95	50	103.0	89.5	110.5	
Sb	123	115	1	He	52.742	1.156	202604	0.96	50	105.5	89.5	110.5	
Ba	137	115	1	He	51.586	0.396	78037	0.45	50	103.2	89.5	110.5	
W	182	165	1	He	49.335	1.831	558588	1.54	50	98.7	89.5	110.5	
Tl	205	209	1	He	47.309	1.908	1192879	1.33	50	94.6	89.5	110.5	
Pb	208	209	1	He	48.698	1.370	1616170	0.84	50	97.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1722576	0.96	1803797	95.50	30	120	
Sc	45	1	He	564194	2.60	574766	98.16	30	120	
Sc	45	2	NoGas	4315154	0.19	4296857	100.43	30	120	
Rh	103	1	He	1616566	1.35	1652712	97.81	30	120	
In	115	1	He	824152	0.49	852389	96.69	30	120	
Tb	159	1	He	2469425	1.24	2425956	101.79	30	120	
Ho	165	1	He	2531799	0.99	2452680	103.23	30	120	
Bi	209	1	He	1831269	0.82	1810473	101.15	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	082_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:44:12-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.106	20.9	593	20.7	1	
B	11	45	2	NoGas	2.714	1.7	15670	1.2	20	
Na	23	45	1	He	35.977	5.1	86722	2.1	400	
Mg	24	45	1	He	1.939	17.5	2552	10.1	1000	
Al	27	45	1	He	8.106	4.7	4319	3.0	50	
K	39	45	1	He	6.506	51.9	67603	3.4	1000	
Ca	44	45	1	He	5.406	20.9	754	6.7	1000	
Ti	47	45	1	He	0.335	17.5	72	18.7	20	
V	51	45	1	He	0.039	180.5	464	80.2	2	
Cr	52	45	1	He	0.022	13.9	3081	1.3	2	
Mn	55	45	1	He	0.284	5.5	1500	5.4	2	
Fe	56	45	1	He	12.204	22.8	80125	19.8	50	
Co	59	103	1	He	0.037	9.5	457	6.7	1	
Ni	60	103	1	He	0.015	76.8	141	22.3	2	
Cu	63	103	1	He	-0.038	-85.5	2278	8.6	2	
Zn	66	103	1	He	0.437	35.3	1526	13.9	20	
As	75	103	1	He	0.186	4.8	379	2.7	2	
Se	78	103	1	He	0.245	57.1	50	21.3	2	
Sr	88	103	1	He	0.069	33.2	537	26.4	10	
Mo	95	103	1	He	0.764	23.7	3031	16.4	2	
Ag	107	103	1	He	0.005	23.3	81	11.9	0.2	
Cd	111	103	1	He	0.114	31.1	1077	7.4	0.2	
Sn	118	115	1	He	0.502	19.1	2752	13.0	10	
Sb	123	115	1	He	0.229	28.4	1812	14.1	1	
Ba	137	115	1	He	0.043	50.3	81	42.2	5	
W	182	165	1	He	1.099	10.3	15326	8.5	10	
Tl	205	209	1	He	0.079	18.2	2500	15.7	0.5	
Pb	208	209	1	He	0.042	5.5	2382	3.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1771092	0.68	1803797	98.19	30	120	
Sc	45	1	He	561275	1.43	574766	97.65	30	120	
Sc	45	2	NoGas	4392850	0.99	4296857	102.23	30	120	
Rh	103	1	He	1701631	2.11	1652712	102.96	30	120	
In	115	1	He	856698	0.22	852389	100.51	30	120	
Tb	159	1	He	2498692	0.11	2425956	103.00	30	120	
Ho	165	1	He	2561509	0.35	2452680	104.44	30	120	
Bi	209	1	He	1902516	0.56	1810473	105.08	30	120	

Sample Report

Sample Table

Sample Name	240-49409-g-6-d msd
Data File Name	083SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:48:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1016.052	1016.052	1.54	5024832	0.02	10000	
B	11	45	2	NoGas	163.713	163.713	1.58	532465	0.03	300	
Na	23	45	1	He	270557.568	270557.568	2.73	371710111	0.07	500000	
Mg	24	45	1	He	32473.827	32473.827	1.80	25297617	0.13	500000	
Al	27	45	1	He	9325.301	9325.301	1.72	3778557	0.25	200000	
K	39	45	1	He	17140.908	17140.908	1.70	10540691	0.16	500000	
Ca	44	45	1	He	69626.377	69626.377	2.48	2270215	3.07	500000	
Ti	47	45	1	He	97.806	97.806	2.53	18986	0.52	2500	
V	51	45	1	He	1008.954	1008.954	2.86	5003937	0.02	10000	
Cr	52	45	1	He	987.675	987.675	1.58	6012190	0.02	10000	
Mn	55	45	1	He	10078.276	10078.276	0.43	43388068	0.02	10000	>LDR
Fe	56	45	1	He	26312.291	26312.291	1.79	146620856	0.02	200000	
Co	59	103	1	He	1596.990	1596.990	0.56	13795805	0.01	10000	
Ni	60	103	1	He	1030.927	1030.927	0.82	2264739	0.05	10000	
Cu	63	103	1	He	987.938	987.938	1.08	5790008	0.02	10000	
Zn	66	103	1	He	964.420	964.420	0.66	1149683	0.08	10000	
As	75	103	1	He	970.897	970.897	0.43	732322	0.13	10000	
Se	78	103	1	He	939.651	939.651	1.96	58683	1.60	10000	
Sr	88	103	1	He	1255.444	1255.444	1.00	5634194	0.02	10000	
Mo	95	103	1	He	113.231	113.231	0.96	274356	0.04	2000	
Ag	107	103	1	He	98.841	98.841	0.57	827555	0.01	300	
Cd	111	103	1	He	974.261	974.261	0.82	1363055	0.07	4000	
Sn	118	115	1	He	1066.161	1066.161	0.32	3312200	0.03	2000	
Sb	123	115	1	He	103.416	103.416	1.54	341256	0.03	300	
Ba	137	115	1	He	1260.843	1260.843	0.70	1641654	0.08	10000	
W	182	165	1	He	95.414	95.414	1.01	999640	0.01	2500	
Tl	205	209	1	He	242.349	242.349	0.78	4988115	0.00	5000	
Pb	208	209	1	He	1024.937	1024.937	0.38	27758291	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1580131	2.03	1803797	87.60	30	120	
Sc	45	1	He	513615	1.58	574766	89.36	30	120	
Sc	45	2	NoGas	3959765	1.27	4296857	92.15	30	120	
Rh	103	1	He	1353815	0.55	1652712	81.91	30	120	
In	115	1	He	709484	0.82	852389	83.23	30	120	
Tb	159	1	He	2253922	0.25	2425956	92.91	30	120	
Ho	165	1	He	2348246	0.57	2452680	95.74	30	120	
Bi	209	1	He	1495119	0.31	1810473	82.58	30	120	

Sample Report

Sample Table

Sample Name	240-49423-i-1-b
Data File Name	084SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:51:44-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.185	0.185	13.62	989	0.02	10000	
B	11	45	2	NoGas	63.592	63.592	1.27	224341	0.03	300	
Na	23	45	1	He	3435.126	3435.126	1.55	4952034	0.07	500000	
Mg	24	45	1	He	10789.554	10789.554	1.82	8764260	0.12	500000	
Al	27	45	1	He	13.428	13.428	4.39	6369	0.21	200000	
K	39	45	1	He	4736.702	4736.702	0.31	3080929	0.15	500000	
Ca	44	45	1	He	69129.098	69129.098	0.52	2350513	2.94	500000	
Ti	47	45	1	He	0.714	0.714	20.33	146	0.49	2500	
V	51	45	1	He	0.375	0.375	17.26	2183	0.02	10000	
Cr	52	45	1	He	1.278	1.278	4.22	10915	0.01	10000	
Mn	55	45	1	He	69.185	69.185	1.77	310662	0.02	10000	
Fe	56	45	1	He	59.864	59.864	2.49	353551	0.02	200000	
Co	59	103	1	He	0.283	0.283	10.55	2834	0.01	10000	
Ni	60	103	1	He	0.706	0.706	7.22	1857	0.04	10000	
Cu	63	103	1	He	1.816	1.816	3.32	14452	0.01	10000	
Zn	66	103	1	He	11.608	11.608	0.31	16556	0.07	10000	
As	75	103	1	He	1.771	1.771	1.93	1706	0.10	10000	
Se	78	103	1	He	0.922	0.922	4.63	93	0.99	10000	
Sr	88	103	1	He	106.702	106.702	0.73	545972	0.02	10000	
Mo	95	103	1	He	0.786	0.786	22.77	2817	0.03	2000	
Ag	107	103	1	He	0.009	0.009	64.65	112	0.01	300	
Cd	111	103	1	He	0.220	0.220	26.27	1144	0.02	4000	
Sn	118	115	1	He	2.568	2.568	16.43	9692	0.03	2000	
Sb	123	115	1	He	0.584	0.584	8.36	2976	0.02	300	
Ba	137	115	1	He	29.460	29.460	2.09	42779	0.07	10000	
W	182	165	1	He	1.198	1.198	21.39	15883	0.01	2500	
Tl	205	209	1	He	0.189	0.189	27.75	5070	0.00	5000	
Pb	208	209	1	He	0.231	0.231	12.06	8424	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1705083	2.10	1803797	94.53	30	120	
Sc	45	1	He	535472	0.84	574766	93.16	30	120	
Sc	45	2	NoGas	4227900	0.55	4296857	98.40	30	120	
Rh	103	1	He	1543224	0.43	1652712	93.38	30	120	
In	115	1	He	791129	1.07	852389	92.81	30	120	
Tb	159	1	He	2379284	1.54	2425956	98.08	30	120	
Ho	165	1	He	2469800	0.43	2452680	100.70	30	120	
Bi	209	1	He	1803450	1.51	1810473	99.61	30	120	

Sample Report

Sample Table

Sample Name	190-7066-a-1-a
Data File Name	085SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:55:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.122	0.122	21.91	630	0.02	10000	
B	11	45	2	NoGas	83.813	83.813	2.45	292463	0.03	300	
Na	23	45	1	He	248255.041	248255.041	0.82	353453364	0.07	500000	
Mg	24	45	1	He	8340.834	8340.834	1.53	6733350	0.12	500000	
Al	27	45	1	He	28.428	28.428	1.52	12627	0.23	200000	
K	39	45	1	He	143291.824	143291.824	1.74	90860124	0.16	500000	
Ca	44	45	1	He	14438.800	14438.800	1.15	488282	2.96	500000	
Ti	47	45	1	He	1.692	1.692	17.51	341	0.50	2500	
V	51	45	1	He	1.957	1.957	6.37	10298	0.02	10000	
Cr	52	45	1	He	1.718	1.718	2.52	13617	0.01	10000	
Mn	55	45	1	He	42.603	42.603	1.22	190172	0.02	10000	
Fe	56	45	1	He	129.264	129.264	0.74	751977	0.02	200000	
Co	59	103	1	He	0.300	0.300	2.54	2754	0.01	10000	
Ni	60	103	1	He	288.952	288.952	0.67	663503	0.04	10000	
Cu	63	103	1	He	2.404	2.404	0.37	16850	0.01	10000	
Zn	66	103	1	He	60.959	60.959	1.36	76629	0.08	10000	
As	75	103	1	He	1.945	1.945	1.93	1702	0.11	10000	
Se	78	103	1	He	0.739	0.739	6.13	74	1.00	10000	
Sr	88	103	1	He	66.661	66.661	0.39	312790	0.02	10000	
Mo	95	103	1	He	9.309	9.309	0.56	24121	0.04	2000	
Ag	107	103	1	He	0.008	0.008	6.13	96	0.01	300	
Cd	111	103	1	He	0.173	0.173	26.14	981	0.02	4000	
Sn	118	115	1	He	2.787	2.787	5.53	10174	0.03	2000	
Sb	123	115	1	He	2.987	2.987	4.00	11478	0.03	300	
Ba	137	115	1	He	2.962	2.962	3.63	4195	0.07	10000	
W	182	165	1	He	0.512	0.512	5.10	8028	0.01	2500	
Tl	205	209	1	He	0.120	0.120	11.67	2987	0.00	5000	
Pb	208	209	1	He	0.242	0.242	1.52	7789	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1635241	0.65	1803797	90.66	30	120	
Sc	45	1	He	532122	0.60	574766	92.58	30	120	
Sc	45	2	NoGas	4208065	0.82	4296857	97.93	30	120	
Rh	103	1	He	1414984	0.52	1652712	85.62	30	120	
In	115	1	He	769373	0.84	852389	90.26	30	120	
Tb	159	1	He	2340454	0.71	2425956	96.48	30	120	
Ho	165	1	He	2380016	0.62	2452680	97.04	30	120	
Bi	209	1	He	1600051	0.20	1810473	88.38	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176522/1-a
Data File Name	086_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:59:28-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.101	9.1	552	7.6	1	
B	11	45	2	NoGas	4.115	0.6	20060	2.5	20	
Na	23	45	1	He	104.679	4.3	189293	4.9	400	
Mg	24	45	1	He	51.931	4.2	44945	2.9	1000	
Al	27	45	1	He	4.310	8.2	2629	4.7	50	
K	39	45	1	He	43.645	2.4	92110	2.0	1000	
Ca	44	45	1	He	169.842	2.0	6589	1.7	1000	
Ti	47	45	1	He	0.590	29.8	126	28.4	20	
V	51	45	1	He	0.278	36.1	1758	31.2	2	
Cr	52	45	1	He	1.130	6.0	10409	3.2	2	
Mn	55	45	1	He	0.627	5.2	3103	3.7	2	
Fe	56	45	1	He	12.826	4.7	83732	3.1	50	
Co	59	103	1	He	0.133	0.8	1441	0.7	1	
Ni	60	103	1	He	0.268	8.8	808	7.9	2	
Cu	63	103	1	He	0.506	0.9	6060	0.8	2	
Zn	66	103	1	He	3.565	2.4	5988	2.2	20	
As	75	103	1	He	0.285	11.4	456	6.4	2	
Se	78	103	1	He	0.136	60.5	40	15.7	2	
Sr	88	103	1	He	0.641	6.7	3627	6.4	10	
Mo	95	103	1	He	-0.062	-45.2	510	16.1	2	
Ag	107	103	1	He	0.001	88.3	43	23.1	0.2	
Cd	111	103	1	He	0.118	13.4	1043	2.4	0.2	
Sn	118	115	1	He	0.848	2.4	3952	1.9	10	
Sb	123	115	1	He	0.369	6.5	2311	4.1	1	
Ba	137	115	1	He	1.061	11.0	1640	10.8	5	
W	182	165	1	He	0.135	17.5	4282	5.3	10	
Tl	205	209	1	He	0.022	23.6	996	12.8	0.5	
Pb	208	209	1	He	0.150	1.4	6064	1.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1736362	1.44	1803797	96.26	30	120	
Sc	45	1	He	559280	1.30	574766	97.31	30	120	
Sc	45	2	NoGas	4262211	2.17	4296857	99.19	30	120	
Rh	103	1	He	1640240	0.22	1652712	99.25	30	120	
In	115	1	He	835422	0.02	852389	98.01	30	120	
Tb	159	1	He	2456919	0.11	2425956	101.28	30	120	
Ho	165	1	He	2525394	1.04	2452680	102.96	30	120	
Bi	209	1	He	1888342	1.05	1810473	104.30	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176522/3-a
Data File Name	087_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:03:22-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	984.293	984.293	1.326	4931816	1.01	1000	98.4	79.5	120.5	
B	11	2	NoGas	110.343	110.343	1.621	358741	2.42	100	110.3	79.5	120.5	
Na	23	1	He	10110.072	10110.072	2.028	14076489	0.35	10000	101.1	79.5	120.5	
Mg	24	1	He	9984.358	9984.358	1.707	7866374	0.73	10000	99.8	79.5	120.5	
Al	27	1	He	9258.220	9258.220	2.270	3793434	0.74	10000	92.6	79.5	120.5	
K	39	1	He	9940.367	9940.367	2.725	6205337	0.49	10000	99.4	79.5	120.5	
Ca	44	1	He	9167.062	9167.062	1.821	302752	1.20	10000	91.7	79.5	120.5	
Ti	47	1	He	97.622	97.622	3.496	19160	1.36	100	97.6	79.5	120.5	
V	51	1	He	990.709	990.709	1.533	4969539	1.06	1000	99.1	79.5	120.5	
Cr	52	1	He	995.485	995.485	1.623	6128049	0.86	1000	99.5	79.5	120.5	
Mn	55	1	He	983.431	983.431	2.794	4280359	0.52	1000	98.3	79.5	120.5	
Fe	56	1	He	9988.728	9988.728	1.447	56294417	0.96	10000	99.9	79.5	120.5	
Co	59	1	He	930.372	930.372	2.510	8800922	0.56	1000	93.0	79.5	120.5	
Ni	60	1	He	966.017	966.017	2.443	2323975	1.05	1000	96.6	79.5	120.5	
Cu	63	1	He	948.804	948.804	2.480	6089253	0.47	1000	94.9	79.5	120.5	
Zn	66	1	He	923.171	923.171	2.708	1205084	0.60	1000	92.3	79.5	120.5	
As	75	1	He	898.089	898.089	2.631	741797	0.53	1000	89.8	79.5	120.5	
Se	78	1	He	908.582	908.582	2.107	62145	0.33	1000	90.9	79.5	120.5	
Sr	88	1	He	950.087	950.087	1.991	4669471	0.64	1000	95.0	79.5	120.5	
Mo	95	1	He	100.606	100.606	2.834	267002	0.77	100	100.6	79.5	120.5	
Ag	107	1	He	97.077	97.077	3.220	889962	1.12	100	97.1	79.5	120.5	
Cd	111	1	He	956.731	956.731	2.775	1465754	0.68	1000	95.7	79.5	120.5	
Sn	118	1	He	1055.257	1055.257	0.704	3420737	0.55	1000	105.5	79.5	120.5	
Sb	123	1	He	101.762	101.762	0.128	350435	0.36	100	101.8	79.5	120.5	
Ba	137	1	He	998.836	998.836	1.019	1357067	0.84	1000	99.9	79.5	120.5	
W	182	1	He	92.242	92.242	0.767	997172	1.32	100	92.2	79.5	120.5	
Tl	205	1	He	229.026	229.026	1.373	5512480	0.44	250	91.6	79.5	120.5	
Pb	208	1	He	939.638	939.638	1.165	29759577	0.11	1000	94.0	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1600653	0.72	1803797	88.74	30	120	
Sc	45	1	He	519458	2.40	574766	90.38	30	120	
Sc	45	2	NoGas	3938908	1.80	4296857	91.67	30	120	
Rh	103	1	He	1483003	2.08	1652712	89.73	30	120	
In	115	1	He	740317	0.26	852389	86.85	30	120	
Tb	159	1	He	2348256	0.67	2425956	96.80	30	120	
Ho	165	1	He	2422702	0.59	2452680	98.78	30	120	
Bi	209	1	He	1748587	1.27	1810473	96.58	30	120	

Sample Report

Sample Table

Sample Name	240-49304-k-1-a
Data File Name	088SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:06:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.252	0.252	8.91	1152	0.02	10000	
B	11	45	2	NoGas	267.730	267.730	0.94	847764	0.03	300	
Na	23	45	1	He	651044.409	651044.409	1.19	850675522	0.08	500000	>LDR
Mg	24	45	1	He	221618.219	221618.219	0.84	164187119	0.13	500000	
Al	27	45	1	He	26.746	26.746	7.38	10944	0.24	200000	
K	39	45	1	He	44784.096	44784.096	0.84	26101937	0.17	500000	
Ca	44	45	1	He	199251.602	199251.602	1.00	6178730	3.22	500000	
Ti	47	45	1	He	1.631	1.631	7.32	302	0.54	2500	
V	51	45	1	He	2.204	2.204	4.02	10617	0.02	10000	
Cr	52	45	1	He	2.988	2.988	2.15	19845	0.02	10000	
Mn	55	45	1	He	3259.670	3259.670	0.67	13344517	0.02	10000	
Fe	56	45	1	He	154342.072	154342.072	0.12	817936963	0.02	200000	
Co	59	103	1	He	24.140	24.140	0.44	197291	0.01	10000	
Ni	60	103	1	He	19.297	19.297	0.07	40172	0.05	10000	
Cu	63	103	1	He	1.692	1.692	16.55	11296	0.01	10000	
Zn	66	103	1	He	32.681	32.681	1.49	37485	0.09	10000	
As	75	103	1	He	3.539	3.539	5.76	2676	0.13	10000	
Se	78	103	1	He	1.988	1.988	18.67	140	1.42	10000	
Sr	88	103	1	He	1722.893	1722.893	1.06	7313327	0.02	10000	
Mo	95	103	1	He	1.134	1.134	14.89	3130	0.04	2000	
Ag	107	103	1	He	0.010	0.010	51.69	108	0.01	300	
Cd	111	103	1	He	2.797	2.797	2.15	4359	0.06	4000	
Sn	118	115	1	He	2.233	2.233	19.01	7584	0.03	2000	
Sb	123	115	1	He	0.665	0.665	10.35	2911	0.02	300	
Ba	137	115	1	He	64.223	64.223	1.03	82881	0.08	10000	
W	182	165	1	He	1.175	1.175	18.89	14237	0.01	2500	
Tl	205	209	1	He	0.210	0.210	31.76	4442	0.00	5000	
Pb	208	209	1	He	0.297	0.297	9.14	8410	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1455203	1.83	1803797	80.67	30	120	
Sc	45	1	He	488399	1.05	574766	84.97	30	120	
Sc	45	2	NoGas	3870338	0.42	4296857	90.07	30	120	
Rh	103	1	He	1280620	1.14	1652712	77.49	30	120	
In	115	1	He	703079	0.51	852389	82.48	30	120	
Tb	159	1	He	2186447	0.63	2425956	90.13	30	120	
Ho	165	1	He	2250664	0.53	2452680	91.76	30	120	
Bi	209	1	He	1433217	0.73	1810473	79.16	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49304-k-1-a@5
Data File Name	089SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:10:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.135	0.135	10.08	689	0.02	10000	
B	11	45	2	NoGas	54.328	54.328	0.54	192757	0.03	300	
Na	23	45	1	He	129767.302	129767.302	1.59	189150607	0.07	500000	
Mg	24	45	1	He	44605.454	44605.454	2.50	36856242	0.12	500000	
Al	27	45	1	He	6.264	6.264	9.54	3401	0.18	200000	
K	39	45	1	He	8981.532	8981.532	0.81	5888253	0.15	500000	
Ca	44	45	1	He	40702.573	40702.573	0.76	1408197	2.89	500000	
Ti	47	45	1	He	0.679	0.679	42.33	141	0.48	2500	
V	51	45	1	He	0.481	0.481	24.92	2784	0.02	10000	
Cr	52	45	1	He	0.609	0.609	9.62	6779	0.01	10000	
Mn	55	45	1	He	665.835	665.835	1.99	3040410	0.02	10000	
Fe	56	45	1	He	30875.427	30875.427	1.43	182499699	0.02	200000	
Co	59	103	1	He	4.634	4.634	0.83	44835	0.01	10000	
Ni	60	103	1	He	3.827	3.827	2.17	9491	0.04	10000	
Cu	63	103	1	He	0.204	0.204	1.56	3616	0.01	10000	
Zn	66	103	1	He	6.478	6.478	2.30	9410	0.07	10000	
As	75	103	1	He	0.462	0.462	3.48	570	0.08	10000	
Se	78	103	1	He	0.339	0.339	4.07	51	0.67	10000	
Sr	88	103	1	He	336.920	336.920	2.60	1691288	0.02	10000	
Mo	95	103	1	He	0.010	0.010	113.73	664	0.00	2000	
Ag	107	103	1	He	0.003	0.003	81.04	53	0.00	300	
Cd	111	103	1	He	0.622	0.622	5.47	1753	0.04	4000	
Sn	118	115	1	He	0.182	0.182	20.29	1463	0.01	2000	
Sb	123	115	1	He	0.114	0.114	11.19	1277	0.01	300	
Ba	137	115	1	He	12.688	12.688	1.57	18799	0.07	10000	
W	182	165	1	He	0.204	0.204	13.25	5068	0.00	2500	
Tl	205	209	1	He	0.030	0.030	17.35	1107	0.00	5000	
Pb	208	209	1	He	0.068	0.068	5.28	3025	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1625837	1.13	1803797	90.13	30	120	
Sc	45	1	He	544771	1.06	574766	94.78	30	120	
Sc	45	2	NoGas	4233285	0.93	4296857	98.52	30	120	
Rh	103	1	He	1514647	1.77	1652712	91.65	30	120	
In	115	1	He	806842	0.41	852389	94.66	30	120	
Tb	159	1	He	2446667	1.60	2425956	100.85	30	120	
Ho	165	1	He	2532488	1.48	2452680	103.25	30	120	
Bi	209	1	He	1750306	0.21	1810473	96.68	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49304-k-1-a
Data File Name	090SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:14:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2143.042	2143.042	0.36	9742743	0.02	10000	
B	11	45	2	NoGas	493.301	493.301	1.99	1537637	0.03	300	>LDR
Na	23	45	1	He	629588.825	629588.825	1.38	832118456	0.08	500000	>LDR
Mg	24	45	1	He	226078.022	226078.022	1.40	169415538	0.13	500000	
Al	27	45	1	He	19154.831	19154.831	1.57	7465766	0.26	200000	
K	39	45	1	He	61733.272	61733.272	1.06	36374290	0.17	500000	
Ca	44	45	1	He	202799.244	202799.244	0.33	6360561	3.19	500000	
Ti	47	45	1	He	205.789	205.789	1.11	38431	0.54	2500	
V	51	45	1	He	2085.203	2085.203	0.97	9949184	0.02	10000	
Cr	52	45	1	He	2031.225	2031.225	0.34	11891372	0.02	10000	
Mn	55	45	1	He	4988.969	4988.969	1.16	20658573	0.02	10000	
Fe	56	45	1	He	161829.842	161829.842	0.71	867458383	0.02	200000	
Co	59	103	1	He	2080.611	2080.611	0.55	16865900	0.01	10000	
Ni	60	103	1	He	2060.785	2060.785	0.81	4248157	0.05	10000	
Cu	63	103	1	He	1993.707	1993.707	0.96	10962490	0.02	10000	
Zn	66	103	1	He	2068.767	2068.767	1.38	2313343	0.09	10000	
As	75	103	1	He	2118.780	2118.780	0.57	1499481	0.14	10000	
Se	78	103	1	He	2125.487	2125.487	1.02	124539	1.71	10000	
Sr	88	103	1	He	3849.942	3849.942	0.55	16212933	0.02	10000	
Mo	95	103	1	He	239.461	239.461	1.09	543864	0.04	2000	
Ag	107	103	1	He	214.980	214.980	1.66	1689047	0.01	300	
Cd	111	103	1	He	2175.912	2175.912	0.93	2855912	0.08	4000	
Sn	118	115	1	He	2361.697	2361.697	1.03	6785763	0.03	2000	>LDR
Sb	123	115	1	He	228.683	228.683	0.48	697245	0.03	300	
Ba	137	115	1	He	2470.265	2470.265	0.30	2975334	0.08	10000	
W	182	165	1	He	216.569	216.569	0.79	2193103	0.01	2500	
Tl	205	209	1	He	539.234	539.234	1.80	10359884	0.01	5000	
Pb	208	209	1	He	2217.361	2217.361	1.36	56056760	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1452282	0.33	1803797	80.51	30	120	
Sc	45	1	He	493998	0.18	574766	85.95	30	120	
Sc	45	2	NoGas	3820963	0.57	4296857	88.92	30	120	
Rh	103	1	He	1270395	0.36	1652712	76.87	30	120	
In	115	1	He	656288	0.56	852389	76.99	30	120	
Tb	159	1	He	2199902	1.33	2425956	90.68	30	120	
Ho	165	1	He	2272853	1.04	2452680	92.67	30	120	
Bi	209	1	He	1395658	0.38	1810473	77.09	30	120	

Sample Report

Sample Table

Sample Name	240-49304-k-1-d ms
Data File Name	091SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:18:09-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1193.098	1193.098	23.33	4944129	0.02	10000	
B	11	45	2	NoGas	419.119	419.119	26.02	1238937	0.03	300	>LDR
Na	23	45	1	He	633260.040	633260.040	0.44	836212559	0.08	500000	>LDR
Mg	24	45	1	He	221546.066	221546.066	0.40	165869405	0.13	500000	
Al	27	45	1	He	10038.341	10038.341	0.78	3909117	0.26	200000	
K	39	45	1	He	53241.179	53241.179	0.40	31349464	0.17	500000	
Ca	44	45	1	He	198254.181	198254.181	1.11	6212156	3.19	500000	
Ti	47	45	1	He	104.255	104.255	1.76	19453	0.54	2500	
V	51	45	1	He	1091.843	1091.843	2.65	5204416	0.02	10000	
Cr	52	45	1	He	1046.493	1046.493	2.25	6121778	0.02	10000	
Mn	55	45	1	He	4149.684	4149.684	0.72	17167477	0.02	10000	
Fe	56	45	1	He	156777.887	156777.887	0.73	839605478	0.02	200000	
Co	59	103	1	He	1072.130	1072.130	1.31	8676508	0.01	10000	
Ni	60	103	1	He	1085.125	1085.125	1.43	2233229	0.05	10000	
Cu	63	103	1	He	1030.067	1030.067	1.78	5655254	0.02	10000	
Zn	66	103	1	He	1008.640	1008.640	1.64	1126325	0.09	10000	
As	75	103	1	He	1075.091	1075.091	1.11	759666	0.14	10000	
Se	78	103	1	He	1074.410	1074.410	1.18	62860	1.71	10000	
Sr	88	103	1	He	2793.700	2793.700	1.22	11745200	0.02	10000	
Mo	95	103	1	He	124.482	124.482	1.06	282516	0.04	2000	
Ag	107	103	1	He	105.567	105.567	1.05	828038	0.01	300	
Cd	111	103	1	He	1039.219	1039.219	1.16	1362059	0.08	4000	
Sn	118	115	1	He	1190.443	1190.443	1.07	3523180	0.03	2000	
Sb	123	115	1	He	112.696	112.696	1.05	354246	0.03	300	
Ba	137	115	1	He	1172.307	1172.307	0.69	1454204	0.08	10000	
W	182	165	1	He	103.784	103.784	1.74	1058473	0.01	2500	
Tl	205	209	1	He	273.802	273.802	0.23	5283524	0.01	5000	
Pb	208	209	1	He	1131.416	1131.416	0.26	28728374	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1375604	24.26	1803797	76.26	30	120	
Sc	45	1	He	493551	0.62	574766	85.87	30	120	
Sc	45	2	NoGas	3799131	27.11	4296857	88.42	30	120	
Rh	103	1	He	1268381	1.17	1652712	76.75	30	120	
In	115	1	He	675914	0.08	852389	79.30	30	120	
Tb	159	1	He	2206064	1.68	2425956	90.94	30	120	
Ho	165	1	He	2286624	1.14	2452680	93.23	30	120	
Bi	209	1	He	1401757	0.49	1810473	77.42	30	120	

Sample Report

Sample Table

Sample Name	240-49304-k-1-e msd
Data File Name	092SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:21:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1075.869	1075.869	1.22	4908918	0.02	10000	
B	11	45	2	NoGas	380.785	380.785	1.21	1216277	0.03	300	>LDR
Na	23	45	1	He	633116.685	633116.685	1.53	835362189	0.08	500000	>LDR
Mg	24	45	1	He	221534.127	221534.127	0.42	165759497	0.13	500000	
Al	27	45	1	He	9844.535	9844.535	0.93	3830947	0.26	200000	
K	39	45	1	He	53086.337	53086.337	1.64	31233084	0.17	500000	
Ca	44	45	1	He	198591.652	198591.652	1.54	6218488	3.19	500000	
Ti	47	45	1	He	104.037	104.037	2.58	19399	0.54	2500	
V	51	45	1	He	1087.355	1087.355	1.78	5179448	0.02	10000	
Cr	52	45	1	He	1034.235	1034.235	0.62	6046144	0.02	10000	
Mn	55	45	1	He	4112.044	4112.044	0.43	17000388	0.02	10000	
Fe	56	45	1	He	156436.691	156436.691	0.60	837192322	0.02	200000	
Co	59	103	1	He	1052.164	1052.164	0.89	8706862	0.01	10000	
Ni	60	103	1	He	1067.103	1067.103	0.29	2245698	0.05	10000	
Cu	63	103	1	He	1006.760	1006.760	0.99	5652531	0.02	10000	
Zn	66	103	1	He	988.586	988.586	0.45	1128932	0.09	10000	
As	75	103	1	He	1049.158	1049.158	0.65	758094	0.14	10000	
Se	78	103	1	He	1055.290	1055.290	0.85	63135	1.67	10000	
Sr	88	103	1	He	2737.543	2737.543	0.60	11769325	0.02	10000	
Mo	95	103	1	He	121.140	121.140	0.41	281159	0.04	2000	
Ag	107	103	1	He	103.009	103.009	0.18	826219	0.01	300	
Cd	111	103	1	He	1017.413	1017.413	0.36	1363603	0.07	4000	
Sn	118	115	1	He	1166.376	1166.376	1.09	3509589	0.03	2000	
Sb	123	115	1	He	110.829	110.829	0.85	354205	0.03	300	
Ba	137	115	1	He	1176.356	1176.356	3.76	1483525	0.08	10000	
W	182	165	1	He	101.301	101.301	1.98	1052169	0.01	2500	
Tl	205	209	1	He	272.985	272.985	0.46	5323433	0.01	5000	
Pb	208	209	1	He	1111.601	1111.601	0.63	28522916	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1457769	2.03	1803797	80.82	30	120	
Sc	45	1	He	493226	1.48	574766	85.81	30	120	
Sc	45	2	NoGas	3911575	0.74	4296857	91.03	30	120	
Rh	103	1	He	1296923	0.64	1652712	78.47	30	120	
In	115	1	He	687224	0.68	852389	80.62	30	120	
Tb	159	1	He	2258071	0.39	2425956	93.08	30	120	
Ho	165	1	He	2328520	0.66	2452680	94.94	30	120	
Bi	209	1	He	1416549	0.45	1810473	78.24	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	093_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:25:25-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.530	3.533	245286	3.36	50	91.1	89.5	110.5	
B	11	45	2	NoGas	56.469	2.413	211302	1.65	50	112.9	89.5	110.5	CCV Failed
Na	23	45	1	He	26029.536	2.208	39796436	0.51	25000	104.1	89.5	110.5	
Mg	24	45	1	He	25864.384	1.421	22405567	0.51	25000	103.5	89.5	110.5	
Al	27	45	1	He	245.948	1.497	111541	0.53	250	98.4	89.5	110.5	
K	39	45	1	He	26503.099	2.409	18085664	0.53	25000	106.0	89.5	110.5	
Ca	44	45	1	He	24989.882	2.203	906412	0.31	25000	100.0	89.5	110.5	
Ti	47	45	1	He	50.933	1.726	10996	1.12	50	101.9	89.5	110.5	
V	51	45	1	He	51.374	0.383	283643	1.75	50	102.7	89.5	110.5	
Cr	52	45	1	He	51.700	1.937	352755	0.25	50	103.4	89.5	110.5	
Mn	55	45	1	He	254.987	2.091	1220580	0.40	250	102.0	89.5	110.5	
Fe	56	45	1	He	13140.785	2.264	81419681	0.38	12500	105.1	89.5	110.5	
Co	59	103	1	He	47.247	1.300	499461	0.36	50	94.5	89.5	110.5	
Ni	60	103	1	He	47.427	1.405	127581	0.96	50	94.9	89.5	110.5	
Cu	63	103	1	He	47.545	1.041	343345	0.69	50	95.1	89.5	110.5	
Zn	66	103	1	He	47.826	1.167	70570	0.21	50	95.7	89.5	110.5	
As	75	103	1	He	47.739	1.170	44249	0.22	50	95.5	89.5	110.5	
Se	78	103	1	He	47.273	3.055	3641	2.11	50	94.5	89.5	110.5	
Sr	88	103	1	He	48.460	2.280	266234	1.32	50	96.9	89.5	110.5	
Mo	95	103	1	He	50.470	0.888	150045	1.77	50	100.9	89.5	110.5	
Ag	107	103	1	He	49.046	1.456	502497	0.67	50	98.1	89.5	110.5	
Cd	111	103	1	He	49.413	1.549	85401	0.59	50	98.8	89.5	110.5	
Sn	118	115	1	He	51.757	0.719	192138	0.82	50	103.5	89.5	110.5	
Sb	123	115	1	He	53.001	0.967	208552	0.63	50	106.0	89.5	110.5	
Ba	137	115	1	He	52.384	0.410	81173	0.47	50	104.8	89.5	110.5	
W	182	165	1	He	48.176	1.455	564832	1.53	50	96.4	89.5	110.5	
Tl	205	209	1	He	47.207	0.538	1220525	0.75	50	94.4	89.5	110.5	
Pb	208	209	1	He	48.563	0.196	1652558	0.41	50	97.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1721021	0.27	1803797	95.41	30	120	
Sc	45	1	He	571138	1.94	574766	99.37	30	120	
Sc	45	2	NoGas	4470459	1.18	4296857	104.04	30	120	
Rh	103	1	He	1656699	0.95	1652712	100.24	30	120	
In	115	1	He	844207	0.33	852389	99.04	30	120	
Tb	159	1	He	2536496	1.25	2425956	104.56	30	120	
Ho	165	1	He	2621254	0.83	2452680	106.87	30	120	
Bi	209	1	He	1877586	0.49	1810473	103.71	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	094_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:29:15-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.181	7.7	1007	7.2	1	
B	11	45	2	NoGas	7.616	2.2	34244	2.6	20	
Na	23	45	1	He	98.434	3.5	181680	2.1	400	
Mg	24	45	1	He	8.303	5.6	8024	4.8	1000	
Al	27	45	1	He	7.965	3.9	4285	2.4	50	
K	39	45	1	He	11.219	10.6	71218	1.3	1000	
Ca	44	45	1	He	11.430	17.9	975	8.3	1000	
Ti	47	45	1	He	0.395	33.9	86	34.0	20	
V	51	45	1	He	0.106	46.1	839	32.6	2	
Cr	52	45	1	He	0.059	19.6	3350	1.7	2	
Mn	55	45	1	He	0.266	11.3	1425	10.0	2	
Fe	56	45	1	He	21.531	19.0	137835	17.3	50	
Co	59	103	1	He	0.037	16.1	471	12.5	1	
Ni	60	103	1	He	0.012	71.2	136	15.8	2	
Cu	63	103	1	He	0.125	16.0	3625	4.6	2	
Zn	66	103	1	He	0.527	11.0	1728	3.3	20	
As	75	103	1	He	0.148	10.4	357	2.6	2	
Se	78	103	1	He	0.316	30.4	58	11.7	2	
Sr	88	103	1	He	0.144	26.1	993	21.1	10	
Mo	95	103	1	He	0.708	26.4	2979	18.4	2	
Ag	107	103	1	He	0.009	11.6	129	10.5	0.2	
Cd	111	103	1	He	0.154	12.8	1193	2.7	0.2	
Sn	118	115	1	He	0.548	8.9	3030	6.5	10	
Sb	123	115	1	He	0.271	12.6	2052	7.2	1	
Ba	137	115	1	He	0.094	25.0	167	22.5	5	
W	182	165	1	He	1.158	12.5	16461	10.9	10	
Tl	205	209	1	He	0.111	9.2	3377	6.5	0.5	
Pb	208	209	1	He	0.070	4.9	3408	5.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1768760	0.82	1803797	98.06	30	120	
Sc	45	1	He	564925	0.80	574766	98.29	30	120	
Sc	45	2	NoGas	4533584	0.80	4296857	105.51	30	120	
Rh	103	1	He	1770958	1.95	1652712	107.15	30	120	
In	115	1	He	887359	0.44	852389	104.10	30	120	
Tb	159	1	He	2558878	0.95	2425956	105.48	30	120	
Ho	165	1	He	2633307	0.63	2452680	107.36	30	120	
Bi	209	1	He	1940025	1.73	1810473	107.16	30	120	

Sample Report

Sample Table

Sample Name	240-49304-m-1-a
Data File Name	095SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:33:06-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.273	0.273	13.82	1289	0.02	10000	
B	11	45	2	NoGas	241.104	241.104	0.94	794309	0.03	300	
Na	23	45	1	He	474436.326	474436.326	2.17	650409396	0.07	500000	
Mg	24	45	1	He	174793.854	174793.854	2.07	135862717	0.13	500000	
Al	27	45	1	He	25.243	25.243	2.26	10876	0.23	200000	
K	39	45	1	He	34340.539	34340.539	1.72	21013595	0.16	500000	
Ca	44	45	1	He	180992.788	180992.788	0.93	5888822	3.07	500000	
Ti	47	45	1	He	1.118	1.118	8.21	218	0.51	2500	
V	51	45	1	He	1.644	1.644	6.34	8374	0.02	10000	
Cr	52	45	1	He	2.862	2.862	2.84	20058	0.01	10000	
Mn	55	45	1	He	3265.258	3265.258	2.22	14024079	0.02	10000	
Fe	56	45	1	He	158781.083	158781.083	1.74	882885618	0.02	200000	
Co	59	103	1	He	71.668	71.668	0.62	612041	0.01	10000	
Ni	60	103	1	He	51.564	51.564	1.10	112051	0.05	10000	
Cu	63	103	1	He	1.906	1.906	3.99	13056	0.01	10000	
Zn	66	103	1	He	79.177	79.177	0.07	93932	0.08	10000	
As	75	103	1	He	2.328	2.328	1.25	1895	0.12	10000	
Se	78	103	1	He	1.411	1.411	7.02	111	1.27	10000	
Sr	88	103	1	He	1388.025	1388.025	1.32	6157650	0.02	10000	
Mo	95	103	1	He	0.471	0.471	10.10	1688	0.03	2000	
Ag	107	103	1	He	0.007	0.007	38.24	83	0.01	300	
Cd	111	103	1	He	6.985	6.985	0.20	10344	0.07	4000	
Sn	118	115	1	He	1.753	1.753	14.91	6372	0.03	2000	
Sb	123	115	1	He	0.447	0.447	3.65	2295	0.02	300	
Ba	137	115	1	He	53.123	53.123	0.41	71482	0.07	10000	
W	182	165	1	He	0.434	0.434	8.91	7057	0.01	2500	
Tl	205	209	1	He	0.095	0.095	7.76	2285	0.00	5000	
Pb	208	209	1	He	0.121	0.121	3.41	4002	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1506893	1.43	1803797	83.54	30	120	
Sc	45	1	He	512513	1.82	574766	89.17	30	120	
Sc	45	2	NoGas	4024032	0.42	4296857	93.65	30	120	
Rh	103	1	He	1338293	0.16	1652712	80.98	30	120	
In	115	1	He	733083	0.40	852389	86.00	30	120	
Tb	159	1	He	2288538	0.50	2425956	94.34	30	120	
Ho	165	1	He	2333205	1.97	2452680	95.13	30	120	
Bi	209	1	He	1495730	0.08	1810473	82.62	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176683/1-a
Data File Name	096_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:36:58-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.126	24.6	641	24.0	1	
B	11	45	2	NoGas	11.698	4.3	45404	2.7	20	
Na	23	45	1	He	174.351	3.7	287023	4.1	400	
Mg	24	45	1	He	81.095	1.9	68160	2.5	1000	
Al	27	45	1	He	3.773	3.3	2340	2.1	50	
K	39	45	1	He	20.482	10.5	74977	2.3	1000	
Ca	44	45	1	He	315.555	0.3	11502	1.0	1000	
Ti	47	45	1	He	0.399	29.1	83	28.0	20	
V	51	45	1	He	0.210	27.5	1360	23.3	2	
Cr	52	45	1	He	1.041	1.7	9607	1.5	2	
Mn	55	45	1	He	0.546	10.6	2664	10.7	2	
Fe	56	45	1	He	40.872	20.5	248589	20.8	50	
Co	59	103	1	He	0.022	13.3	284	10.6	1	
Ni	60	103	1	He	0.129	24.9	441	19.7	2	
Cu	63	103	1	He	0.827	1.8	8408	1.2	2	
Zn	66	103	1	He	4.111	3.7	6830	3.6	20	
As	75	103	1	He	0.204	3.2	385	1.9	2	
Se	78	103	1	He	0.204	63.9	45	22.1	2	
Sr	88	103	1	He	0.640	4.6	3650	4.3	10	
Mo	95	103	1	He	-0.088	-28.3	437	17.1	2	
Ag	107	103	1	He	0.004	35.5	76	20.4	0.2	
Cd	111	103	1	He	0.125	5.9	1064	1.1	0.2	
Sn	118	115	1	He	0.673	11.0	3282	7.8	10	
Sb	123	115	1	He	0.233	9.6	1766	4.5	1	
Ba	137	115	1	He	1.530	5.9	2338	5.7	5	
W	182	165	1	He	0.192	10.7	4879	5.4	10	
Tl	205	209	1	He	0.041	11.0	1468	7.7	0.5	
Pb	208	209	1	He	0.147	3.6	5958	3.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612673	2.19	1803797	89.40	30	120	
Sc	45	1	He	546870	0.79	574766	95.15	30	120	
Sc	45	2	NoGas	4177769	1.10	4296857	97.23	30	120	
Rh	103	1	He	1653576	0.37	1652712	100.05	30	120	
In	115	1	He	828037	0.36	852389	97.14	30	120	
Tb	159	1	He	2463933	0.70	2425956	101.57	30	120	
Ho	165	1	He	2504941	0.91	2452680	102.13	30	120	
Bi	209	1	He	1884418	0.76	1810473	104.08	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176683/3-a
Data File Name	097_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:40:49-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	977.280	977.280	1.971	5057626	0.78	1000	97.7	79.5	120.5	
B	11	2	NoGas	114.073	114.073	0.455	393531	0.60	100	114.1	79.5	120.5	
Na	23	1	He	10047.843	10047.843	2.180	14734098	1.15	10000	100.5	79.5	120.5	
Mg	24	1	He	9912.448	9912.448	2.261	8224776	1.47	10000	99.1	79.5	120.5	
Al	27	1	He	9101.438	9101.438	3.571	3927483	2.84	10000	91.0	79.5	120.5	
K	39	1	He	9856.293	9856.293	3.787	6479745	1.91	10000	98.6	79.5	120.5	
Ca	44	1	He	9268.547	9268.547	0.891	322394	1.01	10000	92.7	79.5	120.5	
Ti	47	1	He	95.580	95.580	4.194	19756	2.60	100	95.6	79.5	120.5	
V	51	1	He	1002.075	1002.075	2.759	5293114	1.65	1000	100.2	79.5	120.5	
Cr	52	1	He	994.390	994.390	2.112	6446203	0.31	1000	99.4	79.5	120.5	
Mn	55	1	He	971.339	971.339	1.863	4453101	0.06	1000	97.1	79.5	120.5	
Fe	56	1	He	10011.131	10011.131	0.978	59422624	1.01	10000	100.1	79.5	120.5	
Co	59	1	He	911.375	911.375	1.082	9172009	0.72	1000	91.1	79.5	120.5	
Ni	60	1	He	956.370	956.370	1.956	2447429	0.47	1000	95.6	79.5	120.5	
Cu	63	1	He	932.614	932.614	2.206	6366952	0.64	1000	93.3	79.5	120.5	
Zn	66	1	He	907.237	907.237	1.416	1259944	0.24	1000	90.7	79.5	120.5	
As	75	1	He	884.465	884.465	1.742	777189	0.75	1000	88.4	79.5	120.5	
Se	78	1	He	886.757	886.757	0.711	64526	0.88	1000	88.7	79.5	120.5	
Sr	88	1	He	941.012	941.012	1.763	4919551	0.18	1000	94.1	79.5	120.5	
Mo	95	1	He	99.553	99.553	2.064	281094	1.44	100	99.6	79.5	120.5	
Ag	107	1	He	96.776	96.776	1.652	943922	0.33	100	96.8	79.5	120.5	
Cd	111	1	He	989.290	989.290	5.987	1611697	4.54	1000	98.9	79.5	120.5	
Sn	118	1	He	1082.917	1082.917	0.662	3689077	0.68	1000	108.3	79.5	120.5	
Sb	123	1	He	102.333	102.333	0.628	370337	0.97	100	102.3	79.5	120.5	
Ba	137	1	He	1000.571	1000.571	1.019	1428590	0.36	1000	100.1	79.5	120.5	
W	182	1	He	93.440	93.440	0.855	1040031	1.01	100	93.4	79.5	120.5	
Tl	205	1	He	231.013	231.013	1.034	5723723	0.92	250	92.4	79.5	120.5	
Pb	208	1	He	949.984	949.984	2.313	30966338	0.68	1000	95.0	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1653514	1.57	1803797	91.67	30	120	
Sc	45	1	He	547033	1.86	574766	95.17	30	120	
Sc	45	2	NoGas	4181677	0.42	4296857	97.32	30	120	
Rh	103	1	He	1577376	1.60	1652712	95.44	30	120	
In	115	1	He	778017	0.89	852389	91.27	30	120	
Tb	159	1	He	2437946	1.34	2425956	100.49	30	120	
Ho	165	1	He	2494559	0.44	2452680	101.71	30	120	
Bi	209	1	He	1800010	1.89	1810473	99.42	30	120	

Sample Report

Sample Table

Sample Name	240-49299-b-1-a
Data File Name	098SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:44:24-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.310	0.310	1.75	1685	0.02	10000	
B	11	45	2	NoGas	49.965	49.965	2.25	186669	0.03	300	
Na	23	45	1	He	34726.855	34726.855	2.16	52041916	0.07	500000	
Mg	24	45	1	He	161056.298	161056.298	1.91	136767209	0.12	500000	
Al	27	45	1	He	19.745	19.745	1.51	9450	0.21	200000	
K	39	45	1	He	1885.742	1885.742	3.35	1320153	0.14	500000	
Ca	44	45	1	He	243929.547	243929.547	0.79	8670041	2.81	500000	
Ti	47	45	1	He	0.940	0.940	12.27	200	0.47	2500	
V	51	45	1	He	-0.010	-0.010	-1064.43	198	-0.01	10000	
Cr	52	45	1	He	1.396	1.396	2.72	12186	0.01	10000	
Mn	55	45	1	He	6.440	6.440	0.81	30386	0.02	10000	
Fe	56	45	1	He	38.870	38.870	1.52	242086	0.02	200000	
Co	59	103	1	He	0.291	0.291	5.76	2806	0.01	10000	
Ni	60	103	1	He	3.385	3.385	1.68	8256	0.04	10000	
Cu	63	103	1	He	6.057	6.057	1.64	41237	0.01	10000	
Zn	66	103	1	He	11.707	11.707	3.49	16088	0.07	10000	
As	75	103	1	He	2.983	2.983	0.86	2649	0.11	10000	
Se	78	103	1	He	4.032	4.032	8.50	303	1.33	10000	
Sr	88	103	1	He	2046.287	2046.287	1.62	10091505	0.02	10000	
Mo	95	103	1	He	6.657	6.657	3.64	18314	0.04	2000	
Ag	107	103	1	He	0.013	0.013	24.03	148	0.01	300	
Cd	111	103	1	He	0.381	0.381	13.93	1350	0.03	4000	
Sn	118	115	1	He	2.621	2.621	22.34	9807	0.03	2000	
Sb	123	115	1	He	0.567	0.567	1.53	2895	0.02	300	
Ba	137	115	1	He	17.791	17.791	0.89	25673	0.07	10000	
W	182	165	1	He	1.197	1.197	12.67	15927	0.01	2500	
Tl	205	209	1	He	0.299	0.299	19.44	7287	0.00	5000	
Pb	208	209	1	He	0.280	0.280	6.20	9346	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1735434	1.90	1803797	96.21	30	120	
Sc	45	1	He	559855	0.93	574766	97.41	30	120	
Sc	45	2	NoGas	4446201	0.53	4296857	103.48	30	120	
Rh	103	1	He	1487865	1.39	1652712	90.03	30	120	
In	115	1	He	785940	0.74	852389	92.20	30	120	
Tb	159	1	He	2415730	1.01	2425956	99.58	30	120	
Ho	165	1	He	2483085	1.78	2452680	101.24	30	120	
Bi	209	1	He	1680070	1.34	1810473	92.80	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49299-b-1-a@5
Data File Name	099SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:48:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.129	0.129	18.93	763	0.02	10000	
B	11	45	2	NoGas	13.142	13.142	1.00	58381	0.02	300	
Na	23	45	1	He	7015.007	7015.007	2.45	11659568	0.06	500000	
Mg	24	45	1	He	32098.434	32098.434	2.29	30157373	0.11	500000	
Al	27	45	1	He	5.032	5.032	4.50	3266	0.15	200000	
K	39	45	1	He	363.234	363.234	4.15	337676	0.11	500000	
Ca	44	45	1	He	50852.549	50852.549	3.47	1999770	2.54	500000	
Ti	47	45	1	He	0.337	0.337	46.06	80	0.42	2500	
V	51	45	1	He	0.018	0.018	299.17	395	0.00	10000	
Cr	52	45	1	He	0.309	0.309	8.06	5509	0.01	10000	
Mn	55	45	1	He	1.424	1.424	3.65	7578	0.02	10000	
Fe	56	45	1	He	9.062	9.062	7.12	67501	0.01	200000	
Co	59	103	1	He	0.062	0.062	2.87	750	0.01	10000	
Ni	60	103	1	He	0.642	0.642	0.91	1916	0.03	10000	
Cu	63	103	1	He	1.053	1.053	2.86	10569	0.01	10000	
Zn	66	103	1	He	2.295	2.295	1.68	4414	0.05	10000	
As	75	103	1	He	0.454	0.454	8.17	648	0.07	10000	
Se	78	103	1	He	0.830	0.830	6.18	98	0.85	10000	
Sr	88	103	1	He	407.687	407.687	0.78	2355348	0.02	10000	
Mo	95	103	1	He	1.041	1.041	3.61	3974	0.03	2000	
Ag	107	103	1	He	0.003	0.003	109.87	64	0.00	300	
Cd	111	103	1	He	0.138	0.138	3.74	1145	0.01	4000	
Sn	118	115	1	He	0.249	0.249	29.11	1874	0.01	2000	
Sb	123	115	1	He	0.063	0.063	17.41	1198	0.01	300	
Ba	137	115	1	He	3.388	3.388	2.65	5542	0.06	10000	
W	182	165	1	He	0.170	0.170	6.91	5020	0.00	2500	
Tl	205	209	1	He	0.058	0.058	10.67	1953	0.00	5000	
Pb	208	209	1	He	0.072	0.072	3.77	3459	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1879999	0.60	1803797	104.22	30	120	
Sc	45	1	He	619489	1.74	574766	107.78	30	120	
Sc	45	2	NoGas	4846778	0.90	4296857	112.80	30	120	
Rh	103	1	He	1742824	1.10	1652712	105.45	30	120	
In	115	1	He	889185	0.62	852389	104.32	30	120	
Tb	159	1	He	2617283	1.44	2425956	107.89	30	120	
Ho	165	1	He	2708624	0.53	2452680	110.44	30	120	
Bi	209	1	He	1922467	1.45	1810473	106.19	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49299-b-1-a
Data File Name	100SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:52:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2079.618	2079.618	3.20	10544984	0.02	10000	
B	11	45	2	NoGas	283.806	283.806	0.52	969997	0.03	300	
Na	23	45	1	He	53677.200	53677.200	3.02	76902714	0.07	500000	
Mg	24	45	1	He	170889.408	170889.408	1.60	138789217	0.12	500000	
Al	27	45	1	He	19424.280	19424.280	2.56	8204269	0.24	200000	
K	39	45	1	He	22663.478	22663.478	2.32	14509355	0.16	500000	
Ca	44	45	1	He	253714.114	253714.114	3.21	8622127	2.94	500000	
Ti	47	45	1	He	207.775	207.775	3.06	42043	0.49	2500	
V	51	45	1	He	2111.670	2111.670	1.61	10919380	0.02	10000	
Cr	52	45	1	He	2108.845	2108.845	2.18	13378906	0.02	10000	
Mn	55	45	1	He	2075.353	2075.353	1.79	9313480	0.02	10000	
Fe	56	45	1	He	20795.684	20795.684	1.29	120817662	0.02	200000	
Co	59	103	1	He	2072.625	2072.625	0.45	18658985	0.01	10000	
Ni	60	103	1	He	2082.135	2082.135	1.53	4766801	0.04	10000	
Cu	63	103	1	He	2075.182	2075.182	1.18	12672186	0.02	10000	
Zn	66	103	1	He	2071.385	2071.385	0.67	2572511	0.08	10000	
As	75	103	1	He	2230.462	2230.462	1.03	1753108	0.13	10000	
Se	78	103	1	He	2075.620	2075.620	0.38	135069	1.54	10000	
Sr	88	103	1	He	4136.158	4136.158	0.64	19344324	0.02	10000	
Mo	95	103	1	He	244.152	244.152	0.30	615848	0.04	2000	
Ag	107	103	1	He	221.681	221.681	0.63	1934273	0.01	300	
Cd	111	103	1	He	2195.107	2195.107	1.11	3199720	0.07	4000	
Sn	118	115	1	He	2351.487	2351.487	0.14	7454191	0.03	2000	>LDR
Sb	123	115	1	He	227.662	227.662	0.38	765807	0.03	300	
Ba	137	115	1	He	2397.114	2397.114	0.95	3185269	0.08	10000	
W	182	165	1	He	218.381	218.381	0.85	2376888	0.01	2500	
Tl	205	209	1	He	542.637	542.637	0.90	11502659	0.00	5000	
Pb	208	209	1	He	2223.929	2223.929	0.47	62030009	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1620460	2.06	1803797	89.84	30	120	
Sc	45	1	He	535484	1.91	574766	93.17	30	120	
Sc	45	2	NoGas	4179097	0.89	4296857	97.26	30	120	
Rh	103	1	He	1410884	0.11	1652712	85.37	30	120	
In	115	1	He	724041	0.11	852389	84.94	30	120	
Tb	159	1	He	2384973	0.39	2425956	98.31	30	120	
Ho	165	1	He	2443225	1.48	2452680	99.61	30	120	
Bi	209	1	He	1539817	0.91	1810473	85.05	30	120	

Sample Report

Sample Table

Sample Name	240-49299-b-1-d ms
Data File Name	101SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:55:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1096.396	1096.396	2.13	5681633	0.02	10000	
B	11	45	2	NoGas	168.859	168.859	0.74	591610	0.03	300	
Na	23	45	1	He	44947.255	44947.255	1.47	64909955	0.07	500000	
Mg	24	45	1	He	168153.216	168153.216	1.09	137625406	0.12	500000	
Al	27	45	1	He	10290.431	10290.431	2.94	4380060	0.23	200000	
K	39	45	1	He	12879.944	12879.944	1.26	8336430	0.15	500000	
Ca	44	45	1	He	251991.135	251991.135	0.63	8631910	2.92	500000	
Ti	47	45	1	He	108.391	108.391	1.39	22107	0.49	2500	
V	51	45	1	He	1130.310	1130.310	0.91	5890256	0.02	10000	
Cr	52	45	1	He	1097.510	1097.510	2.16	7018067	0.02	10000	
Mn	55	45	1	He	1081.160	1081.160	2.54	4889333	0.02	10000	
Fe	56	45	1	He	10979.896	10979.896	1.31	64283995	0.02	200000	
Co	59	103	1	He	1069.546	1069.546	0.38	9779412	0.01	10000	
Ni	60	103	1	He	1081.521	1081.521	0.91	2514814	0.04	10000	
Cu	63	103	1	He	1054.476	1054.476	0.82	6541055	0.02	10000	
Zn	66	103	1	He	1014.478	1014.478	0.22	1280000	0.08	10000	
As	75	103	1	He	1086.777	1086.777	0.17	867641	0.13	10000	
Se	78	103	1	He	1081.847	1081.847	0.71	71514	1.51	10000	
Sr	88	103	1	He	3170.790	3170.790	0.71	15061534	0.02	10000	
Mo	95	103	1	He	130.539	130.539	0.87	334702	0.04	2000	
Ag	107	103	1	He	108.606	108.606	1.05	962470	0.01	300	
Cd	111	103	1	He	1129.433	1129.433	1.38	1672422	0.07	4000	
Sn	118	115	1	He	1206.158	1206.158	0.41	3929646	0.03	2000	
Sb	123	115	1	He	115.811	115.811	1.23	400718	0.03	300	
Ba	137	115	1	He	1244.474	1244.474	1.71	1699397	0.07	10000	
W	182	165	1	He	108.035	108.035	0.78	1174028	0.01	2500	
Tl	205	209	1	He	269.010	269.010	3.22	6001421	0.00	5000	
Pb	208	209	1	He	1097.682	1097.682	3.83	32216871	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1655761	1.87	1803797	91.79	30	120	
Sc	45	1	He	539565	1.11	574766	93.88	30	120	
Sc	45	2	NoGas	4266978	0.70	4296857	99.30	30	120	
Rh	103	1	He	1432971	0.35	1652712	86.70	30	120	
In	115	1	He	744072	0.45	852389	87.29	30	120	
Tb	159	1	He	2370115	1.24	2425956	97.70	30	120	
Ho	165	1	He	2436391	0.60	2452680	99.34	30	120	
Bi	209	1	He	1621902	3.98	1810473	89.58	30	120	

Sample Report

Sample Table

Sample Name	240-49299-b-1-e msd
Data File Name	102SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:59:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1066.218	1066.218	1.52	5596908	0.02	10000	
B	11	45	2	NoGas	161.770	161.770	1.78	587899	0.03	300	
Na	23	45	1	He	43666.438	43666.438	0.58	63888007	0.07	500000	
Mg	24	45	1	He	162913.892	162913.892	1.62	135074691	0.12	500000	
Al	27	45	1	He	10102.469	10102.469	1.02	4356883	0.23	200000	
K	39	45	1	He	12551.035	12551.035	1.39	8231171	0.15	500000	
Ca	44	45	1	He	247679.675	247679.675	0.39	8595380	2.88	500000	
Ti	47	45	1	He	106.033	106.033	1.18	21910	0.48	2500	
V	51	45	1	He	1111.116	1111.116	0.40	5865968	0.02	10000	
Cr	52	45	1	He	1058.224	1058.224	0.31	6856169	0.02	10000	
Mn	55	45	1	He	1056.409	1056.409	0.97	4840311	0.02	10000	
Fe	56	45	1	He	10576.379	10576.379	0.70	62732475	0.02	200000	
Co	59	103	1	He	1013.490	1013.490	3.87	9534070	0.01	10000	
Ni	60	103	1	He	1033.056	1033.056	4.38	2471028	0.04	10000	
Cu	63	103	1	He	1008.090	1008.090	2.72	6435031	0.02	10000	
Zn	66	103	1	He	966.444	966.444	3.47	1254635	0.08	10000	
As	75	103	1	He	1041.167	1041.167	2.99	855323	0.12	10000	
Se	78	103	1	He	1037.704	1037.704	3.61	70575	1.47	10000	
Sr	88	103	1	He	3067.206	3067.206	3.83	14989001	0.02	10000	
Mo	95	103	1	He	123.539	123.539	2.65	325995	0.04	2000	
Ag	107	103	1	He	103.386	103.386	3.00	942793	0.01	300	
Cd	111	103	1	He	1069.211	1069.211	4.24	1628779	0.07	4000	
Sn	118	115	1	He	1178.907	1178.907	1.00	3901274	0.03	2000	
Sb	123	115	1	He	112.596	112.596	1.68	395760	0.03	300	
Ba	137	115	1	He	1204.943	1204.943	1.33	1671353	0.07	10000	
W	182	165	1	He	102.816	102.816	1.02	1124901	0.01	2500	
Tl	205	209	1	He	271.134	271.134	0.87	5813507	0.00	5000	
Pb	208	209	1	He	1117.270	1117.270	0.75	31521802	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1677050	1.44	1803797	92.97	30	120	
Sc	45	1	He	546600	0.84	574766	95.10	30	120	
Sc	45	2	NoGas	4424644	1.61	4296857	102.97	30	120	
Rh	103	1	He	1475431	3.23	1652712	89.27	30	120	
In	115	1	He	755785	0.32	852389	88.67	30	120	
Tb	159	1	He	2378442	1.17	2425956	98.04	30	120	
Ho	165	1	He	2452813	0.90	2452680	100.01	30	120	
Bi	209	1	He	1557511	0.26	1810473	86.03	30	120	

Sample Report

Sample Table

Sample Name	190-7047-d-1-a
Data File Name	103SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:02:39-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.474	0.474	8.50	2452	0.02	10000	
B	11	45	2	NoGas	57391.495	57391.495	0.25	209281866	0.03	300	>LDR
Na	23	45	1	He	545121.262	545121.262	1.90	809792086	0.07	500000	>LDR
Mg	24	45	1	He	40397.433	40397.433	1.60	34026821	0.12	500000	
Al	27	45	1	He	980.820	980.820	1.30	430375	0.23	200000	
K	39	45	1	He	30888.457	30888.457	0.51	20491838	0.15	500000	
Ca	44	45	1	He	104133.073	104133.073	1.71	3671272	2.84	500000	
Ti	47	45	1	He	1.185	1.185	4.73	250	0.47	2500	
V	51	45	1	He	2.895	2.895	3.07	15776	0.02	10000	
Cr	52	45	1	He	1.946	1.946	0.75	15709	0.01	10000	
Mn	55	45	1	He	453.439	453.439	0.17	2110862	0.02	10000	
Fe	56	45	1	He	628.025	628.025	0.46	3790076	0.02	200000	
Co	59	103	1	He	3.114	3.114	2.86	28544	0.01	10000	
Ni	60	103	1	He	12.643	12.643	1.34	29505	0.04	10000	
Cu	63	103	1	He	9.561	9.561	2.38	61506	0.02	10000	
Zn	66	103	1	He	230.600	230.600	0.68	291783	0.08	10000	
As	75	103	1	He	3.986	3.986	2.68	3356	0.12	10000	
Se	78	103	1	He	1.937	1.937	7.09	154	1.26	10000	
Sr	88	103	1	He	474.241	474.241	0.93	2254910	0.02	10000	
Mo	95	103	1	He	210.104	210.104	0.85	538814	0.04	2000	
Ag	107	103	1	He	0.013	0.013	18.89	141	0.01	300	
Cd	111	103	1	He	0.512	0.512	6.15	1496	0.03	4000	
Sn	118	115	1	He	4.755	4.755	14.03	17098	0.03	2000	
Sb	123	115	1	He	17.230	17.230	1.79	63462	0.03	300	
Ba	137	115	1	He	26.848	26.848	2.22	38604	0.07	10000	
W	182	165	1	He	11.208	11.208	1.15	125668	0.01	2500	
Tl	205	209	1	He	0.357	0.357	23.36	8003	0.00	5000	
Pb	208	209	1	He	8.757	8.757	0.66	248253	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1649483	1.37	1803797	91.45	30	120	
Sc	45	1	He	555331	1.52	574766	96.62	30	120	
Sc	45	2	NoGas	4484840	0.31	4296857	104.37	30	120	
Rh	103	1	He	1434259	0.53	1652712	86.78	30	120	
In	115	1	He	783249	0.22	852389	91.89	30	120	
Tb	159	1	He	2386941	1.37	2425956	98.39	30	120	
Ho	165	1	He	2465536	1.14	2452680	100.52	30	120	
Bi	209	1	He	1560191	0.63	1810473	86.18	30	120	

Sample Report

Sample Table

Sample Name	190-7048-d-1-a
Data File Name	104SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:06:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.266	0.266	4.77	1311	0.02	10000	
B	11	45	2	NoGas	836.118	836.118	2.01	2923019	0.03	300	>LDR
Na	23	45	1	He	232235.327	232235.327	0.88	337807313	0.07	500000	
Mg	24	45	1	He	8277.821	8277.821	0.64	6827469	0.12	500000	
Al	27	45	1	He	26.504	26.504	3.50	12073	0.22	200000	
K	39	45	1	He	145499.014	145499.014	2.42	94241700	0.15	500000	
Ca	44	45	1	He	14720.538	14720.538	1.73	508526	2.89	500000	
Ti	47	45	1	He	1.132	1.132	10.46	233	0.48	2500	
V	51	45	1	He	1.585	1.585	4.73	8566	0.02	10000	
Cr	52	45	1	He	1.581	1.581	8.25	13021	0.01	10000	
Mn	55	45	1	He	45.644	45.644	1.48	208139	0.02	10000	
Fe	56	45	1	He	144.632	144.632	1.68	858825	0.02	200000	
Co	59	103	1	He	0.235	0.235	6.29	2238	0.01	10000	
Ni	60	103	1	He	310.390	310.390	2.73	736919	0.04	10000	
Cu	63	103	1	He	2.871	2.871	2.19	20385	0.01	10000	
Zn	66	103	1	He	64.139	64.139	2.52	83329	0.08	10000	
As	75	103	1	He	1.904	1.904	4.03	1726	0.11	10000	
Se	78	103	1	He	0.601	0.601	10.75	67	0.90	10000	
Sr	88	103	1	He	72.316	72.316	2.74	350824	0.02	10000	
Mo	95	103	1	He	10.120	10.120	5.13	27051	0.04	2000	
Ag	107	103	1	He	0.006	0.006	33.94	84	0.01	300	
Cd	111	103	1	He	0.288	0.288	11.80	1187	0.02	4000	
Sn	118	115	1	He	2.474	2.474	11.52	9292	0.03	2000	
Sb	123	115	1	He	2.953	2.953	0.53	11577	0.03	300	
Ba	137	115	1	He	2.510	2.510	2.94	3625	0.07	10000	
W	182	165	1	He	0.874	0.874	4.86	12153	0.01	2500	
Tl	205	209	1	He	0.186	0.186	7.13	4512	0.00	5000	
Pb	208	209	1	He	0.880	0.880	3.28	26718	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1570825	0.89	1803797	87.08	30	120	
Sc	45	1	He	543686	1.88	574766	94.59	30	120	
Sc	45	2	NoGas	4291845	1.33	4296857	99.88	30	120	
Rh	103	1	He	1463727	2.81	1652712	88.57	30	120	
In	115	1	He	784450	1.08	852389	92.03	30	120	
Tb	159	1	He	2368945	0.98	2425956	97.65	30	120	
Ho	165	1	He	2439121	0.53	2452680	99.45	30	120	
Bi	209	1	He	1627596	1.87	1810473	89.90	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	105_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:10:23-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.977	1.740	246859	1.85	50	92.0	89.5	110.5	
B	11	45	2	NoGas	449.267	0.872	1696560	0.63	50	898.5	89.5	110.5	CCV Failed
Na	23	45	1	He	25168.663	1.804	40213285	1.36	25000	100.7	89.5	110.5	
Mg	24	45	1	He	25071.008	1.951	22692948	1.23	25000	100.3	89.5	110.5	
Al	27	45	1	He	246.819	2.214	116951	1.00	250	98.7	89.5	110.5	
K	39	45	1	He	26259.996	2.731	18723864	0.50	25000	105.0	89.5	110.5	
Ca	44	45	1	He	24916.251	2.409	944299	0.69	25000	99.7	89.5	110.5	
Ti	47	45	1	He	50.942	1.594	11494	2.75	50	101.9	89.5	110.5	
V	51	45	1	He	50.838	0.647	293318	2.59	50	101.7	89.5	110.5	
Cr	52	45	1	He	50.277	1.967	358545	1.15	50	100.6	89.5	110.5	
Mn	55	45	1	He	249.890	2.141	1249936	1.26	250	100.0	89.5	110.5	
Fe	56	45	1	He	12761.879	2.220	82625477	1.07	12500	102.1	89.5	110.5	
Co	59	103	1	He	47.503	0.265	506392	0.63	50	95.0	89.5	110.5	
Ni	60	103	1	He	47.253	0.839	128185	1.33	50	94.5	89.5	110.5	
Cu	63	103	1	He	47.614	0.991	346727	1.49	50	95.2	89.5	110.5	
Zn	66	103	1	He	47.726	1.420	71016	1.74	50	95.5	89.5	110.5	
As	75	103	1	He	49.219	0.874	45996	0.31	50	98.4	89.5	110.5	
Se	78	103	1	He	49.151	2.175	3816	1.60	50	98.3	89.5	110.5	
Sr	88	103	1	He	50.127	0.344	277721	0.87	50	100.3	89.5	110.5	
Mo	95	103	1	He	49.355	1.222	147955	0.73	50	98.7	89.5	110.5	
Ag	107	103	1	He	49.377	0.740	510137	0.68	50	98.8	89.5	110.5	
Cd	111	103	1	He	49.900	0.216	86961	0.58	50	99.8	89.5	110.5	
Sn	118	115	1	He	50.580	1.330	194091	0.57	50	101.2	89.5	110.5	
Sb	123	115	1	He	52.674	1.421	214231	0.73	50	105.3	89.5	110.5	
Ba	137	115	1	He	52.250	2.152	83680	1.43	50	104.5	89.5	110.5	
W	182	165	1	He	47.280	1.017	559504	1.28	50	94.6	89.5	110.5	
Tl	205	209	1	He	47.079	1.012	1221793	0.77	50	94.2	89.5	110.5	
Pb	208	209	1	He	48.574	0.503	1659224	1.10	50	97.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1715286	1.63	1803797	95.09	30	120	
Sc	45	1	He	596895	3.11	574766	103.85	30	120	
Sc	45	2	NoGas	4627468	0.87	4296857	107.69	30	120	
Rh	103	1	He	1670495	0.56	1652712	101.08	30	120	
In	115	1	He	872608	0.77	852389	102.37	30	120	
Tb	159	1	He	2551361	1.25	2425956	105.17	30	120	
Ho	165	1	He	2645392	0.49	2452680	107.86	30	120	
Bi	209	1	He	1884809	1.48	1810473	104.11	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	106_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:14:13-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.144	9.6	796	10.5	1	
B	11	45	2	NoGas	301.880	1.4	1171581	1.7	20	CCB Failed
Na	23	45	1	He	58.995	8.3	123023	5.4	400	
Mg	24	45	1	He	8.043	21.3	7861	18.6	1000	
Al	27	45	1	He	8.330	1.9	4483	0.3	50	
K	39	45	1	He	22.373	21.2	79317	3.0	1000	
Ca	44	45	1	He	11.350	10.4	980	4.8	1000	
Ti	47	45	1	He	0.470	69.7	102	68.7	20	
V	51	45	1	He	0.075	108.9	673	66.7	2	
Cr	52	45	1	He	0.040	35.1	3254	4.2	2	
Mn	55	45	1	He	0.242	22.6	1323	19.9	2	
Fe	56	45	1	He	16.569	33.2	108287	31.0	50	
Co	59	103	1	He	0.041	21.6	518	18.8	1	
Ni	60	103	1	He	0.022	18.5	163	7.1	2	
Cu	63	103	1	He	-0.054	-33.1	2219	6.1	2	
Zn	66	103	1	He	0.474	11.7	1622	5.3	20	
As	75	103	1	He	0.131	22.2	336	8.0	2	
Se	78	103	1	He	0.280	25.7	54	10.3	2	
Sr	88	103	1	He	0.158	29.9	1063	25.3	10	
Mo	95	103	1	He	0.675	21.8	2835	15.7	2	
Ag	107	103	1	He	0.008	35.3	126	26.2	0.2	
Cd	111	103	1	He	0.166	4.0	1196	0.6	0.2	
Sn	118	115	1	He	0.302	19.0	2100	10.6	10	
Sb	123	115	1	He	0.178	23.8	1686	10.3	1	
Ba	137	115	1	He	0.069	35.3	128	31.1	5	
W	182	165	1	He	1.124	14.1	15823	12.0	10	
Tl	205	209	1	He	0.082	12.4	2617	10.6	0.5	
Pb	208	209	1	He	0.058	9.8	2978	7.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1751754	1.64	1803797	97.11	30	120	
Sc	45	1	He	569378	1.30	574766	99.06	30	120	
Sc	45	2	NoGas	4747127	1.43	4296857	110.48	30	120	
Rh	103	1	He	1744534	0.47	1652712	105.56	30	120	
In	115	1	He	898155	0.34	852389	105.37	30	120	
Tb	159	1	He	2570920	1.27	2425956	105.98	30	120	
Ho	165	1	He	2594199	0.44	2452680	105.77	30	120	
Bi	209	1	He	1942969	0.57	1810473	107.32	30	120	

Sample Report

Sample Table

Sample Name	240-49336-d-1-a
Data File Name	107SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:18:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.169	0.169	7.32	878	0.02	10000	
B	11	45	2	NoGas	513.857	513.857	0.08	1840043	0.03	300	>LDR
Na	23	45	1	He	45657.033	45657.033	3.32	67760499	0.07	500000	
Mg	24	45	1	He	21905.416	21905.416	2.71	18428058	0.12	500000	
Al	27	45	1	He	165.230	165.230	2.23	73014	0.23	200000	
K	39	45	1	He	7750.139	7750.139	3.71	5179671	0.15	500000	
Ca	44	45	1	He	64097.077	64097.077	2.62	2257220	2.84	500000	
Ti	47	45	1	He	3.806	3.806	9.02	798	0.48	2500	
V	51	45	1	He	0.713	0.713	45.07	4047	0.02	10000	
Cr	52	45	1	He	1.457	1.457	7.01	12469	0.01	10000	
Mn	55	45	1	He	46.021	46.021	3.75	214030	0.02	10000	
Fe	56	45	1	He	579.542	579.542	2.85	3492911	0.02	200000	
Co	59	103	1	He	0.240	0.240	4.01	2358	0.01	10000	
Ni	60	103	1	He	1.344	1.344	6.58	3373	0.04	10000	
Cu	63	103	1	He	1.806	1.806	2.60	14041	0.01	10000	
Zn	66	103	1	He	10.509	10.509	1.90	14707	0.07	10000	
As	75	103	1	He	2.695	2.695	3.93	2440	0.11	10000	
Se	78	103	1	He	0.535	0.535	24.60	64	0.83	10000	
Sr	88	103	1	He	382.057	382.057	4.32	1907252	0.02	10000	
Mo	95	103	1	He	1.167	1.167	4.23	3774	0.03	2000	
Ag	107	103	1	He	0.008	0.008	29.17	108	0.01	300	
Cd	111	103	1	He	0.230	0.230	7.74	1132	0.02	4000	
Sn	118	115	1	He	1.022	1.022	7.90	4404	0.02	2000	
Sb	123	115	1	He	0.336	0.336	8.63	2097	0.02	300	
Ba	137	115	1	He	95.609	95.609	0.31	140717	0.07	10000	
W	182	165	1	He	0.406	0.406	15.29	7146	0.01	2500	
Tl	205	209	1	He	0.079	0.079	4.14	2271	0.00	5000	
Pb	208	209	1	He	0.401	0.401	4.45	13528	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1649480	1.63	1803797	91.44	30	120	
Sc	45	1	He	554851	3.23	574766	96.54	30	120	
Sc	45	2	NoGas	4389861	1.47	4296857	102.16	30	120	
Rh	103	1	He	1507029	3.08	1652712	91.19	30	120	
In	115	1	He	801904	0.47	852389	94.08	30	120	
Tb	159	1	He	2409153	1.49	2425956	99.31	30	120	
Ho	165	1	He	2465198	1.64	2452680	100.51	30	120	
Bi	209	1	He	1744869	1.90	1810473	96.38	30	120	

Sample Report

Sample Table

Sample Name	HIGH STD
Data File Name	108SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:21:54-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2220.142	2220.142	1.76	11078639	0.02	10000	
B	11	45	2	NoGas	417.929	417.929	1.72	1477963	0.03	300	>LDR
Na	23	45	1	He	20593.751	20593.751	2.34	30802055	0.07	500000	
Mg	24	45	1	He	20642.304	20642.304	3.64	17482778	0.12	500000	
Al	27	45	1	He	19827.816	19827.816	3.39	8734202	0.23	200000	
K	39	45	1	He	21146.186	21146.186	3.91	14121533	0.15	500000	
Ca	44	45	1	He	19056.439	19056.439	3.51	675987	2.82	500000	
Ti	47	45	1	He	202.463	202.463	3.38	42737	0.47	2500	
V	51	45	1	He	2071.583	2071.583	2.25	11174091	0.02	10000	
Cr	52	45	1	He	2053.917	2053.917	2.83	13591618	0.02	10000	
Mn	55	45	1	He	2078.128	2078.128	3.32	9725868	0.02	10000	
Fe	56	45	1	He	20990.355	20990.355	2.53	127194133	0.02	200000	
Co	59	103	1	He	1971.095	1971.095	1.34	19476386	0.01	10000	
Ni	60	103	1	He	1973.336	1973.336	0.85	4958742	0.04	10000	
Cu	63	103	1	He	1956.187	1956.187	1.99	13110661	0.01	10000	
Zn	66	103	1	He	2039.397	2039.397	2.08	2779717	0.07	10000	
As	75	103	1	He	2111.886	2111.886	1.72	1821909	0.12	10000	
Se	78	103	1	He	1974.979	1974.979	1.30	141060	1.40	10000	
Sr	88	103	1	He	2130.844	2130.844	1.38	10938296	0.02	10000	
Mo	95	103	1	He	203.221	203.221	3.32	562674	0.04	2000	
Ag	107	103	1	He	213.211	213.211	1.00	2042004	0.01	300	
Cd	111	103	1	He	2163.403	2163.403	1.24	3461301	0.06	4000	
Sn	118	115	1	He	2329.288	2329.288	0.49	7940822	0.03	2000	>LDR
Sb	123	115	1	He	232.771	232.771	0.25	842038	0.03	300	
Ba	137	115	1	He	2416.867	2416.867	0.64	3453752	0.07	10000	
W	182	165	1	He	209.629	209.629	0.90	2369712	0.01	2500	
Tl	205	209	1	He	495.457	495.457	0.97	12397051	0.00	5000	
Pb	208	209	1	He	2050.697	2050.697	1.08	67517706	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1594450	2.16	1803797	88.39	30	120	
Sc	45	1	He	558755	3.49	574766	97.21	30	120	
Sc	45	2	NoGas	4332447	0.71	4296857	100.83	30	120	
Rh	103	1	He	1548718	1.39	1652712	93.71	30	120	
In	115	1	He	778660	0.29	852389	91.35	30	120	
Tb	159	1	He	2469878	1.03	2425956	101.81	30	120	
Ho	165	1	He	2537241	0.51	2452680	103.45	30	120	
Bi	209	1	He	1817701	0.68	1810473	100.40	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176157/1-a
Data File Name	109_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:25:20-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.405	8.6	2130	7.8	1	
B	11	45	2	NoGas	192.068	1.4	687355	0.5	20	Blank Failed
Na	23	45	1	He	51.376	1.3	106349	1.4	400	
Mg	24	45	1	He	4.225	3.8	4356	2.4	1000	
Al	27	45	1	He	4.209	4.4	2511	2.1	50	
K	39	45	1	He	32.429	7.1	82204	0.3	1000	
Ca	44	45	1	He	14.339	28.6	1038	13.9	1000	
Ti	47	45	1	He	0.476	40.4	99	40.5	20	
V	51	45	1	He	0.519	26.4	2970	24.1	2	
Cr	52	45	1	He	1.270	4.6	11017	2.1	2	
Mn	55	45	1	He	0.377	1.5	1873	1.4	2	
Fe	56	45	1	He	16.628	29.1	103843	27.9	50	
Co	59	103	1	He	0.388	6.2	4056	5.9	1	
Ni	60	103	1	He	0.309	0.7	902	1.1	2	
Cu	63	103	1	He	1.090	23.4	10044	17.2	2	
Zn	66	103	1	He	2.852	5.0	4882	3.8	20	
As	75	103	1	He	1.841	4.7	1849	3.7	2	
Se	78	103	1	He	1.614	17.4	149	13.7	2	
Sr	88	103	1	He	0.498	7.1	2807	6.3	10	
Mo	95	103	1	He	3.575	32.3	10984	29.8	2	Blank Failed
Ag	107	103	1	He	0.016	28.2	196	23.2	0.2	
Cd	111	103	1	He	0.605	20.1	1840	10.5	0.2	Blank Failed
Sn	118	115	1	He	17.082	27.3	62536	26.3	10	Blank Failed
Sb	123	115	1	He	0.616	5.6	3230	3.6	1	
Ba	137	115	1	He	0.577	28.8	887	27.8	5	
W	182	165	1	He	3.786	30.0	44484	26.9	10	
Tl	205	209	1	He	0.471	27.2	12652	25.9	0.5	
Pb	208	209	1	He	0.408	25.8	14876	23.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1678893	0.94	1803797	93.08	30	120	
Sc	45	1	He	543321	1.45	574766	94.53	30	120	
Sc	45	2	NoGas	4363868	0.92	4296857	101.56	30	120	
Rh	103	1	He	1615230	0.51	1652712	97.73	30	120	
In	115	1	He	825817	0.53	852389	96.88	30	120	
Tb	159	1	He	2406986	1.63	2425956	99.22	30	120	
Ho	165	1	He	2485252	1.57	2452680	101.33	30	120	
Bi	209	1	He	1888304	1.51	1810473	104.30	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176157/2-a
Data File Name	110_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:29:12-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1098.732	1098.732	0.998	5461126	0.41	1000	109.9	79.5	120.5	
B	11	2	NoGas	288.796	288.796	1.898	1004893	0.74	100	288.8	79.5	120.5	LCS Failed
Na	23	1	He	10742.126	10742.126	1.488	15503534	1.22	10000	107.4	79.5	120.5	
Mg	24	1	He	10635.175	10635.175	2.019	8685308	0.62	10000	106.4	79.5	120.5	
Al	27	1	He	9930.616	9930.616	0.796	4218934	2.06	10000	99.3	79.5	120.5	
K	39	1	He	10862.340	10862.340	2.816	7023356	0.80	10000	108.6	79.5	120.5	
Ca	44	1	He	9679.676	9679.676	2.400	331307	0.22	10000	96.8	79.5	120.5	
Ti	47	1	He	103.144	103.144	2.415	20991	2.12	100	103.1	79.5	120.5	
V	51	1	He	1081.739	1081.739	3.007	5623273	0.61	1000	108.2	79.5	120.5	
Cr	52	1	He	1062.800	1062.800	2.960	6780105	0.35	1000	106.3	79.5	120.5	
Mn	55	1	He	1074.059	1074.059	1.531	4846904	1.09	1000	107.4	79.5	120.5	
Fe	56	1	He	10719.137	10719.137	2.144	62615155	0.81	10000	107.2	79.5	120.5	
Co	59	1	He	992.937	992.937	1.491	9747571	0.72	1000	99.3	79.5	120.5	
Ni	60	1	He	1017.755	1017.755	2.119	2540696	1.04	1000	101.8	79.5	120.5	
Cu	63	1	He	998.314	998.314	1.240	6648956	0.36	1000	99.8	79.5	120.5	
Zn	66	1	He	976.988	976.988	1.171	1323534	0.53	1000	97.7	79.5	120.5	
As	75	1	He	979.827	979.827	1.159	839896	0.32	1000	98.0	79.5	120.5	
Se	78	1	He	990.580	990.580	0.575	70310	0.66	1000	99.1	79.5	120.5	
Sr	88	1	He	1046.088	1046.088	0.959	5335231	0.36	1000	104.6	79.5	120.5	
Mo	95	1	He	110.528	110.528	1.314	304366	0.29	100	110.5	79.5	120.5	
Ag	107	1	He	104.360	104.360	1.094	993007	0.67	100	104.4	79.5	120.5	
Cd	111	1	He	1087.866	1087.866	2.228	1729524	1.53	1000	108.8	79.5	120.5	
Sn	118	1	He	1168.905	1168.905	0.275	3956441	0.46	1000	116.9	79.5	120.5	
Sb	123	1	He	111.634	111.634	0.342	401326	0.03	100	111.6	79.5	120.5	
Ba	137	1	He	1177.022	1177.022	0.250	1669809	0.43	1000	117.7	79.5	120.5	
W	182	1	He	100.875	100.875	2.268	1113342	1.44	100	100.9	79.5	120.5	
Tl	205	1	He	249.659	249.659	1.393	6136518	1.50	250	99.9	79.5	120.5	
Pb	208	1	He	1020.055	1020.055	1.408	32989638	0.86	1000	102.0	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1587831	0.59	1803797	88.03	30	120	
Sc	45	1	He	538488	2.64	574766	93.69	30	120	
Sc	45	2	NoGas	4255606	1.21	4296857	99.04	30	120	
Rh	103	1	He	1538661	1.23	1652712	93.10	30	120	
In	115	1	He	773014	0.32	852389	90.69	30	120	
Tb	159	1	He	2397388	0.60	2425956	98.82	30	120	
Ho	165	1	He	2474380	0.84	2452680	100.88	30	120	
Bi	209	1	He	1785487	0.61	1810473	98.62	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-a
Data File Name	111SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:32:47-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.272	0.272	7.01	1430	0.02	10000	
B	11	45	2	NoGas	284.911	284.911	0.79	1016825	0.03	300	
Na	23	45	1	He	46635.736	46635.736	2.32	67960712	0.07	500000	
Mg	24	45	1	He	32088.529	32088.529	1.68	26503938	0.12	500000	
Al	27	45	1	He	7.754	7.754	3.46	4042	0.19	200000	
K	39	45	1	He	3089.103	3089.103	2.59	2064211	0.15	500000	
Ca	44	45	1	He	19977.796	19977.796	1.30	691107	2.89	500000	
Ti	47	45	1	He	0.420	0.420	30.23	88	0.48	2500	
V	51	45	1	He	0.222	0.222	87.26	1424	0.02	10000	
Cr	52	45	1	He	1.338	1.338	5.20	11480	0.01	10000	
Mn	55	45	1	He	0.504	0.504	3.14	2461	0.02	10000	
Fe	56	45	1	He	29.907	29.907	1.73	182507	0.02	200000	
Co	59	103	1	He	0.295	0.295	20.36	2871	0.01	10000	
Ni	60	103	1	He	0.208	0.208	6.66	594	0.03	10000	
Cu	63	103	1	He	1.475	1.475	8.50	11879	0.01	10000	
Zn	66	103	1	He	3.871	3.871	3.11	5906	0.07	10000	
As	75	103	1	He	2.036	2.036	6.22	1887	0.11	10000	
Se	78	103	1	He	1.171	1.171	24.90	108	1.08	10000	
Sr	88	103	1	He	392.819	392.819	4.85	1960216	0.02	10000	
Mo	95	103	1	He	0.862	0.862	17.43	2948	0.03	2000	
Ag	107	103	1	He	0.010	0.010	70.22	124	0.01	300	
Cd	111	103	1	He	0.394	0.394	12.20	1388	0.03	4000	
Sn	118	115	1	He	3.161	3.161	16.75	11823	0.03	2000	
Sb	123	115	1	He	0.514	0.514	3.48	2739	0.02	300	
Ba	137	115	1	He	20.513	20.513	2.50	29989	0.07	10000	
W	182	165	1	He	1.306	1.306	16.49	17069	0.01	2500	
Tl	205	209	1	He	0.251	0.251	25.61	6514	0.00	5000	
Pb	208	209	1	He	0.197	0.197	16.20	7177	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1673645	0.48	1803797	92.78	30	120	
Sc	45	1	He	544552	1.47	574766	94.74	30	120	
Sc	45	2	NoGas	4364121	1.71	4296857	101.57	30	120	
Rh	103	1	He	1506919	3.36	1652712	91.18	30	120	
In	115	1	He	796326	0.66	852389	93.42	30	120	
Tb	159	1	He	2421015	1.30	2425956	99.80	30	120	
Ho	165	1	He	2472647	0.72	2452680	100.81	30	120	
Bi	209	1	He	1769341	0.46	1810473	97.73	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49236-d-3-a@5
Data File Name	112SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:36:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.175	0.175	6.39	963	0.02	10000	
B	11	45	2	NoGas	127.538	127.538	1.27	477310	0.03	300	
Na	23	45	1	He	9370.894	9370.894	2.40	14568840	0.06	500000	
Mg	24	45	1	He	6574.639	6574.639	3.43	5782118	0.11	500000	
Al	27	45	1	He	25.009	25.009	2.83	12194	0.21	200000	
K	39	45	1	He	601.695	601.695	3.46	480729	0.13	500000	
Ca	44	45	1	He	4051.648	4051.648	1.33	149729	2.71	500000	
Ti	47	45	1	He	0.197	0.197	28.74	44	0.44	2500	
V	51	45	1	He	0.131	0.131	67.38	1006	0.01	10000	
Cr	52	45	1	He	0.313	0.313	7.71	5184	0.01	10000	
Mn	55	45	1	He	0.397	0.397	3.92	2101	0.02	10000	
Fe	56	45	1	He	6.462	6.462	2.98	46789	0.01	200000	
Co	59	103	1	He	0.059	0.059	3.13	678	0.01	10000	
Ni	60	103	1	He	0.057	0.057	16.88	251	0.02	10000	
Cu	63	103	1	He	0.228	0.228	11.20	4138	0.01	10000	
Zn	66	103	1	He	1.551	1.551	11.09	3118	0.05	10000	
As	75	103	1	He	0.421	0.421	6.18	587	0.07	10000	
Se	78	103	1	He	0.350	0.350	21.67	57	0.62	10000	
Sr	88	103	1	He	72.266	72.266	0.52	398083	0.02	10000	
Mo	95	103	1	He	-0.009	-0.009	-478.63	673	0.00	2000	
Ag	107	103	1	He	0.002	0.002	72.51	54	0.00	300	
Cd	111	103	1	He	0.177	0.177	21.24	1157	0.02	4000	
Sn	118	115	1	He	0.515	0.515	6.90	2849	0.02	2000	
Sb	123	115	1	He	0.084	0.084	24.07	1257	0.01	300	
Ba	137	115	1	He	3.929	3.929	5.17	6296	0.06	10000	
W	182	165	1	He	0.318	0.318	9.26	6416	0.00	2500	
Tl	205	209	1	He	0.075	0.075	6.67	2389	0.00	5000	
Pb	208	209	1	He	0.067	0.067	5.65	3231	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1747707	0.38	1803797	96.89	30	120	
Sc	45	1	He	579969	2.38	574766	100.91	30	120	
Sc	45	2	NoGas	4543396	0.45	4296857	105.74	30	120	
Rh	103	1	He	1661241	0.87	1652712	100.52	30	120	
In	115	1	He	871276	0.46	852389	102.22	30	120	
Tb	159	1	He	2519071	0.61	2425956	103.84	30	120	
Ho	165	1	He	2558703	0.39	2452680	104.32	30	120	
Bi	209	1	He	1906119	0.76	1810473	105.28	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49236-d-3-a
Data File Name	113SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:40:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1117.225	1117.225	1.45	5445363	0.02	10000	
B	11	45	2	NoGas	367.964	367.964	0.49	1222712	0.03	300	>LDR
Na	23	45	1	He	57358.757	57358.757	2.03	79472414	0.07	500000	
Mg	24	45	1	He	42952.258	42952.258	1.52	33732221	0.13	500000	
Al	27	45	1	He	10454.709	10454.709	0.98	4270884	0.24	200000	
K	39	45	1	He	14156.988	14156.988	1.25	8786875	0.16	500000	
Ca	44	45	1	He	29811.020	29811.020	1.33	980301	3.04	500000	
Ti	47	45	1	He	105.874	105.874	1.41	20722	0.51	2500	
V	51	45	1	He	1120.888	1120.888	0.81	5605541	0.02	10000	
Cr	52	45	1	He	1102.820	1102.820	1.83	6767007	0.02	10000	
Mn	55	45	1	He	1097.287	1097.287	3.03	4761195	0.02	10000	
Fe	56	45	1	He	11030.197	11030.197	2.44	61961335	0.02	200000	
Co	59	103	1	He	1070.361	1070.361	0.43	9481711	0.01	10000	
Ni	60	103	1	He	1085.956	1085.956	0.61	2446380	0.04	10000	
Cu	63	103	1	He	1074.079	1074.079	2.80	6454048	0.02	10000	
Zn	66	103	1	He	1050.116	1050.116	1.49	1283522	0.08	10000	
As	75	103	1	He	1085.522	1085.522	0.98	839577	0.13	10000	
Se	78	103	1	He	1078.894	1078.894	1.27	69091	1.56	10000	
Sr	88	103	1	He	1540.170	1540.170	0.62	7088013	0.02	10000	
Mo	95	103	1	He	122.322	122.322	0.93	303881	0.04	2000	
Ag	107	103	1	He	111.938	111.938	1.33	961014	0.01	300	
Cd	111	103	1	He	1179.348	1179.348	2.54	1691813	0.07	4000	
Sn	118	115	1	He	1216.722	1216.722	0.89	3906951	0.03	2000	
Sb	123	115	1	He	115.816	115.816	0.28	394974	0.03	300	
Ba	137	115	1	He	1262.653	1262.653	0.99	1699374	0.07	10000	
W	182	165	1	He	105.588	105.588	1.84	1129440	0.01	2500	
Tl	205	209	1	He	270.590	270.590	4.45	6063143	0.00	5000	
Pb	208	209	1	He	1112.893	1112.893	4.38	32813595	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1557148	1.34	1803797	86.33	30	120	
Sc	45	1	He	517782	1.68	574766	90.09	30	120	
Sc	45	2	NoGas	4068413	1.19	4296857	94.68	30	120	
Rh	103	1	He	1388310	1.03	1652712	84.00	30	120	
In	115	1	He	733359	0.21	852389	86.04	30	120	
Tb	159	1	He	2333422	0.55	2425956	96.19	30	120	
Ho	165	1	He	2398377	1.03	2452680	97.79	30	120	
Bi	209	1	He	1629611	4.00	1810473	90.01	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-b du
Data File Name	114SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:44:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.303	0.303	18.98	1593	0.02	10000	
B	11	45	2	NoGas	211.289	211.289	1.81	744039	0.03	300	
Na	23	45	1	He	42934.049	42934.049	1.37	60947912	0.07	500000	
Mg	24	45	1	He	29538.562	29538.562	2.38	23761462	0.12	500000	
Al	27	45	1	He	5.609	5.609	7.86	3037	0.18	200000	
K	39	45	1	He	2787.543	2787.543	0.63	1820502	0.15	500000	
Ca	44	45	1	He	18151.201	18151.201	1.92	611605	2.97	500000	
Ti	47	45	1	He	0.383	0.383	9.79	78	0.49	2500	
V	51	45	1	He	0.301	0.301	21.30	1786	0.02	10000	
Cr	52	45	1	He	1.311	1.311	5.05	11010	0.01	10000	
Mn	55	45	1	He	0.579	0.579	8.65	2729	0.02	10000	
Fe	56	45	1	He	27.578	27.578	4.90	164353	0.02	200000	
Co	59	103	1	He	0.236	0.236	17.14	2244	0.01	10000	
Ni	60	103	1	He	0.207	0.207	15.01	574	0.04	10000	
Cu	63	103	1	He	1.217	1.217	8.90	9895	0.01	10000	
Zn	66	103	1	He	8.314	8.314	4.07	11444	0.07	10000	
As	75	103	1	He	1.638	1.638	5.87	1507	0.11	10000	
Se	78	103	1	He	0.982	0.982	17.29	92	1.06	10000	
Sr	88	103	1	He	365.406	365.406	2.40	1770495	0.02	10000	
Mo	95	103	1	He	0.628	0.628	23.67	2252	0.03	2000	
Ag	107	103	1	He	0.008	0.008	56.02	103	0.01	300	
Cd	111	103	1	He	0.347	0.347	24.05	1275	0.03	4000	
Sn	118	115	1	He	2.335	2.335	16.96	8847	0.03	2000	
Sb	123	115	1	He	0.405	0.405	14.16	2310	0.02	300	
Ba	137	115	1	He	18.288	18.288	1.88	26436	0.07	10000	
W	182	165	1	He	1.141	1.141	18.13	15052	0.01	2500	
Tl	205	209	1	He	0.227	0.227	24.41	5809	0.00	5000	
Pb	208	209	1	He	0.185	0.185	15.88	6686	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1679284	1.07	1803797	93.10	30	120	
Sc	45	1	He	530406	1.70	574766	92.28	30	120	
Sc	45	2	NoGas	4297488	1.59	4296857	100.01	30	120	
Rh	103	1	He	1462001	1.81	1652712	88.46	30	120	
In	115	1	He	787340	1.10	852389	92.37	30	120	
Tb	159	1	He	2362658	0.58	2425956	97.39	30	120	
Ho	165	1	He	2442586	2.08	2452680	99.59	30	120	
Bi	209	1	He	1738307	1.03	1810473	96.01	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-c ms
Data File Name	115SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:47:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	106.109	106.109	1.95	525835	0.02	10000	
B	11	45	2	NoGas	334.863	334.863	1.14	1126415	0.03	300	>LDR
Na	23	45	1	He	54834.012	54834.012	1.81	76987223	0.07	500000	
Mg	24	45	1	He	41077.815	41077.815	2.00	32687499	0.13	500000	
Al	27	45	1	He	9949.764	9949.764	1.35	4118498	0.24	200000	
K	39	45	1	He	13664.869	13664.869	1.82	8595967	0.16	500000	
Ca	44	45	1	He	28774.415	28774.415	1.80	958789	3.00	500000	
Ti	47	45	1	He	101.438	101.438	3.53	20111	0.50	2500	
V	51	45	1	He	104.324	104.324	1.67	528795	0.02	10000	
Cr	52	45	1	He	104.692	104.692	1.60	653447	0.02	10000	
Mn	55	45	1	He	102.953	102.953	1.59	452860	0.02	10000	
Fe	56	45	1	He	10664.153	10664.153	2.01	60706378	0.02	200000	
Co	59	103	1	He	102.412	102.412	1.01	919400	0.01	10000	
Ni	60	103	1	He	101.393	101.393	0.31	231552	0.04	10000	
Cu	63	103	1	He	102.726	102.726	0.25	627549	0.02	10000	
Zn	66	103	1	He	106.576	106.576	0.90	132668	0.08	10000	
As	75	103	1	He	108.521	108.521	0.83	85214	0.13	10000	
Se	78	103	1	He	106.750	106.750	0.94	6951	1.54	10000	
Sr	88	103	1	He	495.572	495.572	1.43	2311250	0.02	10000	
Mo	95	103	1	He	115.600	115.600	0.45	291076	0.04	2000	
Ag	107	103	1	He	109.609	109.609	0.56	953703	0.01	300	
Cd	111	103	1	He	109.439	109.439	1.71	159759	0.07	4000	
Sn	118	115	1	He	105.996	105.996	0.26	352915	0.03	2000	
Sb	123	115	1	He	108.895	108.895	0.70	384344	0.03	300	
Ba	137	115	1	He	129.515	129.515	1.09	180386	0.07	10000	
W	182	165	1	He	100.530	100.530	0.63	1081136	0.01	2500	
Tl	205	209	1	He	107.991	107.991	3.31	2442167	0.00	5000	
Pb	208	209	1	He	108.312	108.312	2.88	3223726	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1583166	1.07	1803797	87.77	30	120	
Sc	45	1	He	524691	2.00	574766	91.29	30	120	
Sc	45	2	NoGas	4116560	0.41	4296857	95.80	30	120	
Rh	103	1	He	1406916	0.42	1652712	85.13	30	120	
In	115	1	He	758895	0.64	852389	89.03	30	120	
Tb	159	1	He	2337521	0.16	2425956	96.35	30	120	
Ho	165	1	He	2410876	1.39	2452680	98.30	30	120	
Bi	209	1	He	1643649	2.97	1810473	90.79	30	120	

Sample Report

Sample Table

Sample Name	240-49236-a-4-a
Data File Name	116SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:51:42-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.163	0.163	18.05	841	0.02	10000	
B	11	45	2	NoGas	75.630	75.630	1.04	269107	0.03	300	
Na	23	45	1	He	905.906	905.906	1.47	1344804	0.07	500000	
Mg	24	45	1	He	28.348	28.348	4.39	24180	0.12	500000	
Al	27	45	1	He	52.968	52.968	2.09	23347	0.23	200000	
K	39	45	1	He	47.548	47.548	5.27	91742	0.05	500000	
Ca	44	45	1	He	175.734	175.734	3.66	6587	2.67	500000	
Ti	47	45	1	He	0.407	0.407	6.41	84	0.48	2500	
V	51	45	1	He	0.101	0.101	219.83	777	0.01	10000	
Cr	52	45	1	He	2.001	2.001	3.05	15684	0.01	10000	
Mn	55	45	1	He	5.911	5.911	0.66	27004	0.02	10000	
Fe	56	45	1	He	57.791	57.791	1.54	345543	0.02	200000	
Co	59	103	1	He	0.139	0.139	3.71	1506	0.01	10000	
Ni	60	103	1	He	2.502	2.502	1.18	6748	0.04	10000	
Cu	63	103	1	He	0.426	0.426	7.81	5489	0.01	10000	
Zn	66	103	1	He	3.466	3.466	2.46	5837	0.06	10000	
As	75	103	1	He	0.615	0.615	3.10	757	0.08	10000	
Se	78	103	1	He	0.446	0.446	17.42	63	0.71	10000	
Sr	88	103	1	He	0.707	0.707	2.17	3979	0.02	10000	
Mo	95	103	1	He	0.866	0.866	24.49	3225	0.03	2000	
Ag	107	103	1	He	0.007	0.007	25.24	102	0.01	300	
Cd	111	103	1	He	0.121	0.121	30.79	1047	0.01	4000	
Sn	118	115	1	He	0.850	0.850	21.17	3901	0.02	2000	
Sb	123	115	1	He	0.695	0.695	4.90	3523	0.02	300	
Ba	137	115	1	He	0.713	0.713	7.39	1090	0.07	10000	
W	182	165	1	He	1.472	1.472	14.38	19005	0.01	2500	
Tl	205	209	1	He	0.139	0.139	18.42	4003	0.00	5000	
Pb	208	209	1	He	0.118	0.118	5.44	4916	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1643436	2.47	1803797	91.11	30	120	
Sc	45	1	He	541834	0.95	574766	94.27	30	120	
Sc	45	2	NoGas	4281634	0.11	4296857	99.65	30	120	
Rh	103	1	He	1638439	0.59	1652712	99.14	30	120	
In	115	1	He	823286	0.27	852389	96.59	30	120	
Tb	159	1	He	2433599	1.67	2425956	100.32	30	120	
Ho	165	1	He	2488125	1.17	2452680	101.45	30	120	
Bi	209	1	He	1869843	0.94	1810473	103.28	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	117_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:55:34-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.286	1.916	240641	2.19	50	92.6	89.5	110.5	
B	11	45	2	NoGas	101.835	1.236	365100	1.41	50	203.7	89.5	110.5	CCV Failed
Na	23	45	1	He	25038.435	3.087	38307111	0.45	25000	100.2	89.5	110.5	
Mg	24	45	1	He	25070.174	1.973	21735258	1.57	25000	100.3	89.5	110.5	
Al	27	45	1	He	245.209	2.134	111298	1.67	250	98.1	89.5	110.5	
K	39	45	1	He	25771.782	3.474	17598920	0.72	25000	103.1	89.5	110.5	
Ca	44	45	1	He	24886.976	2.421	903403	1.00	25000	99.5	89.5	110.5	
Ti	47	45	1	He	50.092	4.890	10819	3.41	50	100.2	89.5	110.5	
V	51	45	1	He	50.881	3.396	281020	1.00	50	101.8	89.5	110.5	
Cr	52	45	1	He	49.901	2.398	340849	1.08	50	99.8	89.5	110.5	
Mn	55	45	1	He	249.101	2.925	1193213	0.77	250	99.6	89.5	110.5	
Fe	56	45	1	He	12691.732	3.162	78689837	0.97	12500	101.5	89.5	110.5	
Co	59	103	1	He	47.784	1.525	482107	0.86	50	95.6	89.5	110.5	
Ni	60	103	1	He	47.083	1.884	120875	1.01	50	94.2	89.5	110.5	
Cu	63	103	1	He	47.212	2.123	325396	1.58	50	94.4	89.5	110.5	
Zn	66	103	1	He	48.496	2.691	68282	2.23	50	97.0	89.5	110.5	
As	75	103	1	He	49.258	1.042	43572	1.17	50	98.5	89.5	110.5	
Se	78	103	1	He	49.771	1.646	3657	1.55	50	99.5	89.5	110.5	
Sr	88	103	1	He	50.136	0.860	262915	1.23	50	100.3	89.5	110.5	
Mo	95	103	1	He	49.828	1.721	141375	1.36	50	99.7	89.5	110.5	
Ag	107	103	1	He	49.611	0.943	485120	0.39	50	99.2	89.5	110.5	
Cd	111	103	1	He	50.158	0.950	82729	0.72	50	100.3	89.5	110.5	
Sn	118	115	1	He	50.218	1.066	183693	1.64	50	100.4	89.5	110.5	
Sb	123	115	1	He	53.380	0.460	206927	0.89	50	106.8	89.5	110.5	
Ba	137	115	1	He	52.965	1.444	80852	0.86	50	105.9	89.5	110.5	
W	182	165	1	He	47.587	0.864	540410	0.71	50	95.2	89.5	110.5	
Tl	205	209	1	He	47.224	1.152	1190823	0.85	50	94.4	89.5	110.5	
Pb	208	209	1	He	48.786	1.025	1619185	0.80	50	97.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1660732	0.30	1803797	92.07	30	120	
Sc	45	1	He	571748	3.44	574766	99.47	30	120	
Sc	45	2	NoGas	4338189	0.25	4296857	100.96	30	120	
Rh	103	1	He	1581149	0.87	1652712	95.67	30	120	
In	115	1	He	831692	0.58	852389	97.57	30	120	
Tb	159	1	He	2494625	1.37	2425956	102.83	30	120	
Ho	165	1	He	2538792	0.16	2452680	103.51	30	120	
Bi	209	1	He	1831339	0.83	1810473	101.15	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	118_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:59:24-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.107	23.0	559	21.9	1	
B	11	45	2	NoGas	48.854	2.0	181480	1.7	20	CCB Failed
Na	23	45	1	He	25.669	6.0	69413	0.9	400	
Mg	24	45	1	He	2.905	20.9	3286	13.8	1000	
Al	27	45	1	He	7.635	6.3	4004	2.7	50	
K	39	45	1	He	13.638	28.6	70489	1.1	1000	
Ca	44	45	1	He	4.859	33.3	715	5.6	1000	
Ti	47	45	1	He	0.230	37.7	49	38.8	20	
V	51	45	1	He	0.051	115.8	514	57.9	2	
Cr	52	45	1	He	0.049	30.4	3179	2.0	2	
Mn	55	45	1	He	0.125	11.0	732	7.9	2	
Fe	56	45	1	He	12.286	33.1	78324	28.0	50	
Co	59	103	1	He	0.026	9.5	328	7.2	1	
Ni	60	103	1	He	0.022	24.2	156	8.7	2	
Cu	63	103	1	He	-0.115	-12.9	1665	7.4	2	
Zn	66	103	1	He	0.465	17.9	1518	7.2	20	
As	75	103	1	He	0.088	7.1	277	1.1	2	
Se	78	103	1	He	0.252	19.8	49	8.9	2	
Sr	88	103	1	He	0.079	26.0	573	20.0	10	
Mo	95	103	1	He	0.670	21.0	2667	16.8	2	
Ag	107	103	1	He	0.005	50.4	82	30.7	0.2	
Cd	111	103	1	He	0.138	22.9	1082	5.3	0.2	
Sn	118	115	1	He	0.297	8.3	2004	5.0	10	
Sb	123	115	1	He	0.168	31.6	1585	13.7	1	
Ba	137	115	1	He	0.101	6.5	173	5.8	5	
W	182	165	1	He	1.028	12.2	14496	9.0	10	
Tl	205	209	1	He	0.065	6.9	2122	4.9	0.5	
Pb	208	209	1	He	0.037	10.3	2203	7.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1669206	1.03	1803797	92.54	30	120	
Sc	45	1	He	546969	2.43	574766	95.16	30	120	
Sc	45	2	NoGas	4417705	0.36	4296857	102.81	30	120	
Rh	103	1	He	1646928	1.17	1652712	99.65	30	120	
In	115	1	He	864099	0.35	852389	101.37	30	120	
Tb	159	1	He	2495588	1.26	2425956	102.87	30	120	
Ho	165	1	He	2559122	0.81	2452680	104.34	30	120	
Bi	209	1	He	1897239	2.04	1810473	104.79	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	119_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:03:16-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.862	1.858	241359	2.08	50	93.7	89.5	110.5	
B	11	45	2	NoGas	89.686	1.094	332876	2.05	50	179.4	89.5	110.5	CCV Failed
Na	23	45	1	He	24817.600	3.023	38068348	1.23	25000	99.3	89.5	110.5	
Mg	24	45	1	He	25166.565	5.146	21856723	1.14	25000	100.7	89.5	110.5	
Al	27	45	1	He	246.838	2.993	112297	1.27	250	98.7	89.5	110.5	
K	39	45	1	He	25875.077	4.612	17709033	1.10	25000	103.5	89.5	110.5	
Ca	44	45	1	He	24968.136	3.178	908523	0.99	25000	99.9	89.5	110.5	
Ti	47	45	1	He	49.747	0.799	10780	3.34	50	99.5	89.5	110.5	
V	51	45	1	He	50.611	3.764	280245	1.86	50	101.2	89.5	110.5	
Cr	52	45	1	He	49.894	3.803	341562	0.67	50	99.8	89.5	110.5	
Mn	55	45	1	He	249.702	4.128	1198767	0.11	250	99.9	89.5	110.5	
Fe	56	45	1	He	12657.151	4.396	78648641	0.63	12500	101.3	89.5	110.5	
Co	59	103	1	He	47.716	1.835	479266	0.38	50	95.4	89.5	110.5	
Ni	60	103	1	He	47.703	1.439	121930	1.05	50	95.4	89.5	110.5	
Cu	63	103	1	He	47.222	1.683	324018	0.55	50	94.4	89.5	110.5	
Zn	66	103	1	He	48.950	3.026	68598	1.50	50	97.9	89.5	110.5	
As	75	103	1	He	49.558	1.742	43637	0.48	50	99.1	89.5	110.5	
Se	78	103	1	He	49.383	1.305	3613	0.71	50	98.8	89.5	110.5	
Sr	88	103	1	He	51.298	1.778	267776	0.38	50	102.6	89.5	110.5	
Mo	95	103	1	He	49.926	2.267	141058	3.32	50	99.9	89.5	110.5	
Ag	107	103	1	He	49.611	1.563	482944	0.15	50	99.2	89.5	110.5	
Cd	111	103	1	He	50.559	1.749	83009	0.92	50	101.1	89.5	110.5	
Sn	118	115	1	He	50.293	1.581	186431	1.03	50	100.6	89.5	110.5	
Sb	123	115	1	He	52.889	1.431	207790	0.83	50	105.8	89.5	110.5	
Ba	137	115	1	He	52.737	2.596	81588	2.08	50	105.5	89.5	110.5	
W	182	165	1	He	47.748	1.468	541947	2.01	50	95.5	89.5	110.5	
Tl	205	209	1	He	46.717	0.145	1185453	0.50	50	93.4	89.5	110.5	
Pb	208	209	1	He	48.295	0.065	1612958	0.34	50	96.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1645271	1.19	1803797	91.21	30	120	
Sc	45	1	He	573298	4.11	574766	99.74	30	120	
Sc	45	2	NoGas	4481057	1.01	4296857	104.29	30	120	
Rh	103	1	He	1574234	1.57	1652712	95.25	30	120	
In	115	1	He	842922	0.61	852389	98.89	30	120	
Tb	159	1	He	2478723	1.59	2425956	102.18	30	120	
Ho	165	1	He	2537291	0.56	2452680	103.45	30	120	
Bi	209	1	He	1842752	0.36	1810473	101.78	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	120_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:07:08-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.100	19.8	522	18.9	1	
B	11	45	2	NoGas	39.350	2.1	148336	1.3	20	CCB Failed
Na	23	45	1	He	23.215	9.3	66595	3.1	400	
Mg	24	45	1	He	2.529	30.8	3008	20.0	1000	
Al	27	45	1	He	7.841	2.6	4145	3.6	50	
K	39	45	1	He	16.257	25.3	73054	1.9	1000	
Ca	44	45	1	He	6.081	15.9	767	4.5	1000	
Ti	47	45	1	He	0.128	47.6	28	45.4	20	
V	51	45	1	He	0.071	52.2	632	30.7	2	
Cr	52	45	1	He	0.000	14032.2	2898	5.2	2	
Mn	55	45	1	He	0.092	21.6	588	14.5	2	
Fe	56	45	1	He	11.936	32.3	77248	28.0	50	
Co	59	103	1	He	0.017	15.3	233	12.4	1	
Ni	60	103	1	He	0.007	21.7	118	4.3	2	
Cu	63	103	1	He	-0.109	-21.4	1733	9.4	2	
Zn	66	103	1	He	0.428	7.1	1493	2.4	20	
As	75	103	1	He	0.096	40.2	289	12.0	2	
Se	78	103	1	He	0.321	31.3	55	14.0	2	
Sr	88	103	1	He	0.038	11.3	357	6.5	10	
Mo	95	103	1	He	0.623	24.3	2577	18.2	2	
Ag	107	103	1	He	0.005	29.2	80	16.7	0.2	
Cd	111	103	1	He	0.103	45.8	1041	7.4	0.2	
Sn	118	115	1	He	0.370	16.5	2293	9.8	10	
Sb	123	115	1	He	0.166	28.3	1585	11.9	1	
Ba	137	115	1	He	0.059	21.3	108	18.1	5	
W	182	165	1	He	0.978	14.8	14129	12.1	10	
Tl	205	209	1	He	0.061	20.8	2015	16.2	0.5	
Pb	208	209	1	He	0.035	8.8	2143	4.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1655035	0.94	1803797	91.75	30	120	
Sc	45	1	He	553418	1.97	574766	96.29	30	120	
Sc	45	2	NoGas	4447790	0.94	4296857	103.51	30	120	
Rh	103	1	He	1678863	0.65	1652712	101.58	30	120	
In	115	1	He	869433	0.54	852389	102.00	30	120	
Tb	159	1	He	2481605	0.83	2425956	102.29	30	120	
Ho	165	1	He	2594555	0.40	2452680	105.78	30	120	
Bi	209	1	He	1900457	0.24	1810473	104.97	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	121CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:11:01-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.994	0.994	8.030	5182	6.93	1	99.4	69.5	130.5	
B	11	2	NoGas	53.832	53.832	0.677	201680	1.46	20	269.2	69.5	130.5	6020A CR1 Failed
Na	23	1	He	1085.782	1085.782	1.207	1693350	0.77	1000	108.6	69.5	130.5	
Mg	24	1	He	1038.751	1038.751	1.505	901462	2.00	1000	103.9	69.5	130.5	
Al	27	1	He	50.135	50.135	1.056	23349	1.96	50	100.3	69.5	130.5	
K	39	1	He	1071.265	1071.265	0.963	793468	0.51	1000	107.1	69.5	130.5	
Ca	44	1	He	1036.926	1036.926	2.272	38188	1.68	1000	103.7	69.5	130.5	
Ti	47	1	He	9.727	9.727	6.517	2103	7.58	10	97.3	69.5	130.5	
V	51	1	He	5.229	5.229	3.481	29112	2.22	5	104.6	69.5	130.5	
Cr	52	1	He	3.726	3.726	1.490	28224	2.48	2	186.3	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	5.469	5.469	2.676	26361	1.86	5	109.4	69.5	130.5	
Fe	56	1	He	111.843	111.843	1.068	699554	0.21	100	111.8	69.5	130.5	
Co	59	1	He	0.974	0.974	1.666	10333	1.80	1	97.4	69.5	130.5	
Ni	60	1	He	2.649	2.649	2.308	7209	2.38	2	132.5	69.5	130.5	6020A CR1 Failed
Cu	63	1	He	1.820	1.820	0.732	15525	0.76	2	91.0	69.5	130.5	
Zn	66	1	He	19.517	19.517	1.586	29267	1.69	20	97.6	69.5	130.5	
As	75	1	He	4.937	4.937	2.097	4748	2.08	5	98.7	69.5	130.5	
Se	78	1	He	4.889	4.889	1.269	403	1.32	5	97.8	69.5	130.5	
Sr	88	1	He	9.959	9.959	0.992	54768	1.13	10	99.6	69.5	130.5	
Mo	95	1	He	10.091	10.091	1.433	30517	1.39	10	100.9	69.5	130.5	
Ag	107	1	He	1.001	1.001	3.643	10278	3.58	1	100.1	69.5	130.5	
Cd	111	1	He	1.079	1.079	2.477	2695	1.79	1	107.9	69.5	130.5	
Sn	118	1	He	9.929	9.929	1.107	38964	0.78	10	99.3	69.5	130.5	
Sb	123	1	He	1.913	1.913	1.071	8699	1.00	2	95.6	69.5	130.5	
Ba	137	1	He	5.239	5.239	1.497	8436	1.42	5	104.8	69.5	130.5	
W	182	1	He	9.545	9.545	2.887	112547	2.18	10	95.4	69.5	130.5	
Tl	205	1	He	1.912	1.912	1.290	50996	1.10	2	95.6	69.5	130.5	
Pb	208	1	He	1.066	1.066	0.623	38046	0.60	1	106.6	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1665038	1.06	1803797	92.31	30	120	
Sc	45	1	He	571497	1.22	574766	99.43	30	120	
Sc	45	2	NoGas	4468930	1.13	4296857	104.00	30	120	
Rh	103	1	He	1654602	0.15	1652712	100.11	30	120	
In	115	1	He	875951	0.31	852389	102.76	30	120	
Tb	159	1	He	2540368	1.29	2425956	104.72	30	120	
Ho	165	1	He	2583572	1.61	2452680	105.34	30	120	
Bi	209	1	He	1922056	0.28	1810473	106.16	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176562/1-a@2
Data File Name	122_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:14:54-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.106	10.8	544	10.8	1	
B	11	45	2	NoGas	41.570	0.1	148499	0.3	20	Blank Failed
Na	23	45	1	He	57.383	1.0	114977	1.8	400	
Mg	24	45	1	He	30.969	1.5	26376	2.3	1000	
Al	27	45	1	He	6.330	3.0	3417	1.4	50	
K	39	45	1	He	42.305	6.1	88530	2.8	1000	
Ca	44	45	1	He	99.269	5.3	3962	3.8	1000	
Ti	47	45	1	He	0.581	97.5	120	96.6	20	
V	51	45	1	He	0.291	10.9	1774	9.7	2	
Cr	52	45	1	He	1.174	5.5	10386	3.3	2	
Mn	55	45	1	He	0.555	6.8	2685	5.5	2	
Fe	56	45	1	He	14.559	2.0	91505	2.7	50	
Co	59	103	1	He	0.047	15.5	534	14.0	1	
Ni	60	103	1	He	0.206	8.9	627	7.5	2	
Cu	63	103	1	He	0.334	9.5	4720	3.6	2	
Zn	66	103	1	He	2.418	4.6	4227	4.9	20	
As	75	103	1	He	0.346	12.8	500	9.1	2	
Se	78	103	1	He	0.325	16.1	53	6.5	2	
Sr	88	103	1	He	0.606	3.6	3354	3.6	10	
Mo	95	103	1	He	0.234	25.1	1340	11.6	2	
Ag	107	103	1	He	0.006	22.0	88	13.3	0.2	
Cd	111	103	1	He	0.116	39.3	1015	8.2	0.2	
Sn	118	115	1	He	17.586	2.5	64259	2.6	10	Blank Failed
Sb	123	115	1	He	0.102	21.1	1257	6.3	1	
Ba	137	115	1	He	1.144	7.0	1741	6.3	5	
W	182	165	1	He	0.570	19.7	9021	12.7	10	
Tl	205	209	1	He	0.087	14.4	2698	13.2	0.5	
Pb	208	209	1	He	0.237	7.2	9122	5.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1633978	0.54	1803797	90.59	30	120	
Sc	45	1	He	542783	1.07	574766	94.44	30	120	
Sc	45	2	NoGas	4223623	0.24	4296857	98.30	30	120	
Rh	103	1	He	1600315	1.18	1652712	96.83	30	120	
In	115	1	He	823806	0.72	852389	96.65	30	120	
Tb	159	1	He	2420800	0.63	2425956	99.79	30	120	
Ho	165	1	He	2486334	1.08	2452680	101.37	30	120	
Bi	209	1	He	1908848	1.14	1810473	105.43	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176562/2-a@2
Data File Name	123LCSS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:18:45-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	516.347	516.347	0.859	2559295	0.76	500	103.3	78.6	110.5	
B	11	2	NoGas	92.160	92.160	1.001	315678	1.77	50	184.3	79.5	120.5	LCSS Failed
Na	23	1	He	5217.730	5217.730	1.660	7414099	0.31	5000	104.4	79.5	120.5	
Mg	24	1	He	5162.824	5162.824	0.588	4143484	0.78	5000	103.3	79.5	120.5	
Al	27	1	He	4988.215	4988.215	0.881	2082183	0.53	5000	99.8	79.5	120.5	
K	39	1	He	5346.061	5346.061	1.334	3427097	0.48	5000	106.9	79.5	120.5	
Ca	44	1	He	4819.061	4819.061	1.177	162352	1.13	5000	96.4	79.5	120.5	
Ti	47	1	He	50.934	50.934	3.193	10183	1.85	50	101.9	79.5	120.5	
V	51	1	He	530.696	530.696	1.988	2711106	0.85	500	106.1	71.5	110.5	
Cr	52	1	He	522.413	522.413	1.428	3276698	1.16	500	104.5	69.5	110.5	
Mn	55	1	He	522.104	522.104	1.008	2315019	0.83	500	104.4	79.5	120.5	
Fe	56	1	He	5232.765	5232.765	2.103	30035104	0.80	5000	104.7	79.5	120.5	
Co	59	1	He	472.206	472.206	2.918	4634869	1.32	500	94.4	73.9	110.5	
Ni	60	1	He	457.963	457.963	2.614	1143198	0.90	500	91.6	74.9	110.5	
Cu	63	1	He	480.194	480.194	1.931	3199190	0.68	500	96.0	72.6	110.5	
Zn	66	1	He	450.887	450.887	2.402	611161	0.70	500	90.2	71.5	113.4	
As	75	1	He	452.289	452.289	2.019	387760	0.28	500	90.5	73.4	110.5	
Se	78	1	He	444.767	444.767	1.928	31581	0.59	500	89.0	64.6	110.5	
Sr	88	1	He	509.195	509.195	1.445	2597024	0.95	500	101.8	79.5	120.5	
Mo	95	1	He	52.584	52.584	1.683	145137	0.27	50	105.2	29.5	140.5	
Ag	107	1	He	49.779	49.779	2.224	473609	0.41	50	99.6	59.5	114.5	
Cd	111	1	He	477.150	477.150	1.853	759014	0.09	500	95.4	73.5	110.5	
Sn	118	1	He	576.661	576.661	0.382	1977986	0.71	500	115.3	79.5	120.5	
Sb	123	1	He	51.944	51.944	0.149	189643	0.33	50	103.9	67.5	113.4	
Ba	137	1	He	523.849	523.849	0.658	752957	0.23	500	104.8	69.5	110.5	
W	182	1	He	48.016	48.016	1.196	533197	1.17	50	96.0	74.6	125.4	
Tl	205	1	He	119.087	119.087	0.939	2995799	1.03	125	95.3	70.6	110.5	
Pb	208	1	He	483.840	483.840	0.783	16015057	0.72	500	96.8	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1583484	1.59	1803797	87.79	30	120	
Sc	45	1	He	528977	1.36	574766	92.03	30	120	
Sc	45	2	NoGas	4137546	0.83	4296857	96.29	30	120	
Rh	103	1	He	1538755	1.81	1652712	93.10	30	120	
In	115	1	He	783201	0.43	852389	91.88	30	120	
Tb	159	1	He	2392760	0.61	2425956	98.63	30	120	
Ho	165	1	He	2482621	0.53	2452680	101.22	30	120	
Bi	209	1	He	1827238	0.09	1810473	100.93	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-j@2
Data File Name	124SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:22:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.086	2.086	1.81	10529	0.02	10000	
B	11	45	2	NoGas	40.212	40.212	0.85	147627	0.03	300	
Na	23	45	1	He	144.209	144.209	1.67	244431	0.06	500000	
Mg	24	45	1	He	7238.128	7238.128	0.51	6043868	0.12	500000	
Al	27	45	1	He	48705.616	48705.616	1.01	21146937	0.23	200000	
K	39	45	1	He	2435.041	2435.041	1.56	1658136	0.15	500000	
Ca	44	45	1	He	10696.980	10696.980	0.74	374293	2.86	500000	
Ti	47	45	1	He	351.954	351.954	1.10	73222	0.48	2500	
V	51	45	1	He	101.943	101.943	0.95	542118	0.02	10000	
Cr	52	45	1	He	73.538	73.538	0.39	482400	0.02	10000	
Mn	55	45	1	He	1986.143	1986.143	0.69	9162585	0.02	10000	
Fe	56	45	1	He	90959.767	90959.767	0.50	543192458	0.02	200000	
Co	59	103	1	He	29.692	29.692	1.85	287694	0.01	10000	
Ni	60	103	1	He	188.498	188.498	1.94	464465	0.04	10000	
Cu	63	103	1	He	48.884	48.884	2.34	323454	0.02	10000	
Zn	66	103	1	He	285.908	285.908	1.75	382774	0.07	10000	
As	75	103	1	He	42.147	42.147	2.22	35824	0.12	10000	
Se	78	103	1	He	4.366	4.366	7.12	333	1.31	10000	
Sr	88	103	1	He	36.181	36.181	1.75	182227	0.02	10000	
Mo	95	103	1	He	7.197	7.197	1.22	20160	0.04	2000	
Ag	107	103	1	He	0.222	0.222	6.78	2118	0.01	300	
Cd	111	103	1	He	0.953	0.953	7.90	2276	0.04	4000	
Sn	118	115	1	He	20.320	20.320	1.56	72388	0.03	2000	
Sb	123	115	1	He	0.712	0.712	3.22	3507	0.02	300	
Ba	137	115	1	He	262.761	262.761	0.59	387974	0.07	10000	
W	182	165	1	He	0.899	0.899	11.47	13043	0.01	2500	
Tl	205	209	1	He	0.811	0.811	4.68	21303	0.00	5000	
Pb	208	209	1	He	78.710	78.710	0.86	2669772	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612005	1.23	1803797	89.37	30	120	
Sc	45	1	He	550359	0.67	574766	95.75	30	120	
Sc	45	2	NoGas	4335213	1.20	4296857	100.89	30	120	
Rh	103	1	He	1518486	1.24	1652712	91.88	30	120	
In	115	1	He	804528	0.55	852389	94.39	30	120	
Tb	159	1	He	2492632	1.03	2425956	102.75	30	120	
Ho	165	1	He	2559650	0.94	2452680	104.36	30	120	
Bi	209	1	He	1871968	0.54	1810473	103.40	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49071-a-2-j@10
Data File Name	125SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:26:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.476	0.476	9.16	2478	0.02	10000	
B	11	45	2	NoGas	27.767	27.767	1.88	105951	0.03	300	
Na	23	45	1	He	42.461	42.461	0.27	98461	0.04	500000	
Mg	24	45	1	He	1502.358	1502.358	1.57	1306064	0.12	500000	
Al	27	45	1	He	10100.842	10100.842	2.02	4563868	0.22	200000	
K	39	45	1	He	478.721	478.721	2.29	391005	0.12	500000	
Ca	44	45	1	He	2181.674	2181.674	2.25	79880	2.73	500000	
Ti	47	45	1	He	72.918	72.918	0.68	15789	0.46	2500	
V	51	45	1	He	20.438	20.438	1.69	113303	0.02	10000	
Cr	52	45	1	He	14.931	14.931	0.93	104318	0.01	10000	
Mn	55	45	1	He	419.953	419.953	2.39	2015767	0.02	10000	
Fe	56	45	1	He	18609.963	18609.963	1.92	115638315	0.02	200000	
Co	59	103	1	He	5.884	5.884	1.69	62660	0.01	10000	
Ni	60	103	1	He	36.738	36.738	2.49	99501	0.04	10000	
Cu	63	103	1	He	9.551	9.551	1.70	71439	0.01	10000	
Zn	66	103	1	He	57.865	57.865	2.91	85766	0.07	10000	
As	75	103	1	He	8.341	8.341	2.70	7946	0.10	10000	
Se	78	103	1	He	1.052	1.052	15.67	111	0.95	10000	
Sr	88	103	1	He	7.169	7.169	0.69	39779	0.02	10000	
Mo	95	103	1	He	1.223	1.223	3.45	4344	0.03	2000	
Ag	107	103	1	He	0.042	0.042	9.06	462	0.01	300	
Cd	111	103	1	He	0.180	0.180	19.36	1167	0.02	4000	
Sn	118	115	1	He	3.795	3.795	3.94	15259	0.02	2000	
Sb	123	115	1	He	0.045	0.045	33.84	1091	0.00	300	
Ba	137	115	1	He	52.205	52.205	0.71	82940	0.06	10000	
W	182	165	1	He	0.190	0.190	11.22	5157	0.00	2500	
Tl	205	209	1	He	0.172	0.172	3.08	5071	0.00	5000	
Pb	208	209	1	He	16.090	16.090	0.46	571543	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1659497	0.68	1803797	92.00	30	120	
Sc	45	1	He	572793	2.28	574766	99.66	30	120	
Sc	45	2	NoGas	4426783	1.22	4296857	103.02	30	120	
Rh	103	1	He	1667816	1.21	1652712	100.91	30	120	
In	115	1	He	865547	0.23	852389	101.54	30	120	
Tb	159	1	He	2580498	0.78	2425956	106.37	30	120	
Ho	165	1	He	2659740	1.70	2452680	108.44	30	120	
Bi	209	1	He	1957705	0.34	1810473	108.13	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49071-a-2-j@2
Data File Name	126SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:30:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1089.759	1089.759	1.07	5282455	0.02	10000	
B	11	45	2	NoGas	141.655	141.655	0.65	494548	0.03	300	
Na	23	45	1	He	10410.586	10410.586	0.75	15339449	0.07	500000	
Mg	24	45	1	He	17029.083	17029.083	1.34	14196926	0.12	500000	
Al	27	45	1	He	56498.854	56498.854	1.42	24495098	0.23	200000	
K	39	45	1	He	12808.907	12808.907	2.26	8444310	0.15	500000	
Ca	44	45	1	He	19743.551	19743.551	1.38	689403	2.86	500000	
Ti	47	45	1	He	443.533	443.533	1.25	92142	0.48	2500	
V	51	45	1	He	1151.361	1151.361	1.55	6111120	0.02	10000	
Cr	52	45	1	He	1109.198	1109.198	0.88	7225981	0.02	10000	
Mn	55	45	1	He	2963.396	2963.396	1.74	13650115	0.02	10000	
Fe	56	45	1	He	97519.255	97519.255	1.71	581485470	0.02	200000	
Co	59	103	1	He	1052.184	1052.184	1.27	9942371	0.01	10000	
Ni	60	103	1	He	1228.029	1228.029	1.65	2950790	0.04	10000	
Cu	63	103	1	He	1062.625	1062.625	1.76	6811624	0.02	10000	
Zn	66	103	1	He	1317.487	1317.487	2.03	1717525	0.08	10000	
As	75	103	1	He	1039.844	1039.844	0.82	857947	0.12	10000	
Se	78	103	1	He	995.610	995.610	0.92	68017	1.46	10000	
Sr	88	103	1	He	1134.538	1134.538	1.35	5569574	0.02	10000	
Mo	95	103	1	He	122.895	122.895	1.52	325664	0.04	2000	
Ag	107	103	1	He	106.500	106.500	1.28	975371	0.01	300	
Cd	111	103	1	He	1099.641	1099.641	0.99	1682836	0.07	4000	
Sn	118	115	1	He	1205.385	1205.385	1.25	4076586	0.03	2000	
Sb	123	115	1	He	112.774	112.774	0.52	405094	0.03	300	
Ba	137	115	1	He	1491.513	1491.513	1.34	2114289	0.07	10000	
W	182	165	1	He	101.861	101.861	0.79	1143237	0.01	2500	
Tl	205	209	1	He	252.906	252.906	0.87	6277613	0.00	5000	
Pb	208	209	1	He	1108.993	1108.993	0.14	36221982	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1548432	0.33	1803797	85.84	30	120	
Sc	45	1	He	549628	1.80	574766	95.63	30	120	
Sc	45	2	NoGas	4243862	0.55	4296857	98.77	30	120	
Rh	103	1	He	1480982	1.14	1652712	89.61	30	120	
In	115	1	He	772408	0.32	852389	90.62	30	120	
Tb	159	1	He	2456849	0.54	2425956	101.27	30	120	
Ho	165	1	He	2515978	0.06	2452680	102.58	30	120	
Bi	209	1	He	1803121	0.34	1810473	99.59	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-k du@2
Data File Name	127SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:33:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.163	2.163	1.50	10926	0.02	10000	
B	11	45	2	NoGas	35.147	35.147	0.47	130354	0.03	300	
Na	23	45	1	He	136.094	136.094	1.99	231309	0.06	500000	
Mg	24	45	1	He	7255.861	7255.861	1.31	6028418	0.12	500000	
Al	27	45	1	He	48732.536	48732.536	1.30	21053596	0.23	200000	
K	39	45	1	He	2500.649	2500.649	1.33	1692595	0.15	500000	
Ca	44	45	1	He	4960.156	4960.156	1.69	172984	2.87	500000	
Ti	47	45	1	He	363.752	363.752	1.53	75297	0.48	2500	
V	51	45	1	He	105.622	105.622	0.74	558895	0.02	10000	
Cr	52	45	1	He	76.472	76.472	1.08	499038	0.02	10000	
Mn	55	45	1	He	1736.328	1736.328	2.05	7969608	0.02	10000	
Fe	56	45	1	He	95214.256	95214.256	2.09	565720991	0.02	200000	
Co	59	103	1	He	27.832	27.832	1.52	270612	0.01	10000	
Ni	60	103	1	He	137.234	137.234	0.81	339380	0.04	10000	
Cu	63	103	1	He	48.909	48.909	2.03	324726	0.02	10000	
Zn	66	103	1	He	282.797	282.797	2.55	379873	0.07	10000	
As	75	103	1	He	43.570	43.570	2.15	37154	0.12	10000	
Se	78	103	1	He	4.582	4.582	9.94	349	1.31	10000	
Sr	88	103	1	He	21.355	21.355	2.36	107964	0.02	10000	
Mo	95	103	1	He	8.206	8.206	3.67	22966	0.04	2000	
Ag	107	103	1	He	0.225	0.225	6.18	2150	0.01	300	
Cd	111	103	1	He	1.026	1.026	2.86	2399	0.04	4000	
Sn	118	115	1	He	23.015	23.015	1.83	81483	0.03	2000	
Sb	123	115	1	He	0.883	0.883	8.31	4123	0.02	300	
Ba	137	115	1	He	251.270	251.270	0.15	369239	0.07	10000	
W	182	165	1	He	1.366	1.366	16.48	18445	0.01	2500	
Tl	205	209	1	He	0.953	0.953	8.12	24427	0.00	5000	
Pb	208	209	1	He	81.552	81.552	1.60	2707805	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1613038	0.90	1803797	89.42	30	120	
Sc	45	1	He	547646	1.21	574766	95.28	30	120	
Sc	45	2	NoGas	4354249	0.25	4296857	101.34	30	120	
Rh	103	1	He	1523837	2.18	1652712	92.20	30	120	
In	115	1	He	800681	0.47	852389	93.93	30	120	
Tb	159	1	He	2474587	1.19	2425956	102.00	30	120	
Ho	165	1	He	2569674	1.61	2452680	104.77	30	120	
Bi	209	1	He	1832758	1.66	1810473	101.23	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-I ms@2
Data File Name	128SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:37:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	50.079	50.079	2.50	248821	0.02	10000	
B	11	45	2	NoGas	69.678	69.678	0.72	247642	0.03	300	
Na	23	45	1	He	4854.949	4854.949	0.90	7217822	0.07	500000	
Mg	24	45	1	He	12540.664	12540.664	0.44	10524837	0.12	500000	
Al	27	45	1	He	58146.294	58146.294	0.59	25377165	0.23	200000	
K	39	45	1	He	7126.149	7126.149	1.63	4757187	0.15	500000	
Ca	44	45	1	He	9925.244	9925.244	1.25	349131	2.84	500000	
Ti	47	45	1	He	436.432	436.432	0.53	91268	0.48	2500	
V	51	45	1	He	159.909	159.909	0.22	854645	0.02	10000	
Cr	52	45	1	He	122.541	122.541	0.39	806089	0.02	10000	
Mn	55	45	1	He	2103.593	2103.593	0.78	9754809	0.02	10000	
Fe	56	45	1	He	101343.029	101343.029	0.50	608334180	0.02	200000	
Co	59	103	1	He	77.167	77.167	2.01	738552	0.01	10000	
Ni	60	103	1	He	205.448	205.448	2.07	500085	0.04	10000	
Cu	63	103	1	He	96.759	96.759	1.65	630305	0.02	10000	
Zn	66	103	1	He	357.279	357.279	1.58	472352	0.08	10000	
As	75	103	1	He	90.746	90.746	2.10	75992	0.12	10000	
Se	78	103	1	He	45.863	45.863	2.21	3200	1.43	10000	
Sr	88	103	1	He	72.976	72.976	2.44	362927	0.02	10000	
Mo	95	103	1	He	56.957	56.957	1.87	153215	0.04	2000	
Ag	107	103	1	He	47.494	47.494	1.79	440576	0.01	300	
Cd	111	103	1	He	48.087	48.087	1.88	75271	0.06	4000	
Sn	118	115	1	He	56.204	56.204	0.92	196316	0.03	2000	
Sb	123	115	1	He	13.890	13.890	0.35	52065	0.03	300	
Ba	137	115	1	He	326.148	326.148	1.77	475624	0.07	10000	
W	182	165	1	He	35.307	35.307	1.27	403360	0.01	2500	
Tl	205	209	1	He	43.484	43.484	1.35	1091260	0.00	5000	
Pb	208	209	1	He	134.115	134.115	0.13	4428217	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1587718	2.67	1803797	88.02	30	120	
Sc	45	1	He	553202	0.13	574766	96.25	30	120	
Sc	45	2	NoGas	4268910	0.98	4296857	99.35	30	120	
Rh	103	1	He	1500216	1.87	1652712	90.77	30	120	
In	115	1	He	794631	0.60	852389	93.22	30	120	
Tb	159	1	He	2493470	0.69	2425956	102.78	30	120	
Ho	165	1	He	2549533	0.62	2452680	103.95	30	120	
Bi	209	1	He	1822449	0.43	1810473	100.66	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-3-b@2
Data File Name	129SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:41:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.660	2.660	6.19	13383	0.02	10000	
B	11	45	2	NoGas	35.959	35.959	0.34	132489	0.03	300	
Na	23	45	1	He	174.972	174.972	1.23	287615	0.06	500000	
Mg	24	45	1	He	14055.169	14055.169	0.81	11650132	0.12	500000	
Al	27	45	1	He	45099.527	45099.527	1.53	19439627	0.23	200000	
K	39	45	1	He	3564.486	3564.486	1.68	2380871	0.15	500000	
Ca	44	45	1	He	26378.766	26378.766	0.65	915513	2.88	500000	
Ti	47	45	1	He	376.389	376.389	0.44	77739	0.48	2500	
V	51	45	1	He	94.513	94.513	0.87	498988	0.02	10000	
Cr	52	45	1	He	86.613	86.613	1.00	563546	0.02	10000	
Mn	55	45	1	He	3514.509	3514.509	1.36	16095846	0.02	10000	
Fe	56	45	1	He	106876.772	106876.772	0.28	633618855	0.02	200000	
Co	59	103	1	He	41.541	41.541	3.71	405243	0.01	10000	
Ni	60	103	1	He	98.597	98.597	3.93	244643	0.04	10000	
Cu	63	103	1	He	61.276	61.276	3.88	407638	0.02	10000	
Zn	66	103	1	He	289.760	289.760	3.91	390551	0.07	10000	
As	75	103	1	He	52.943	52.943	3.92	45261	0.12	10000	
Se	78	103	1	He	4.170	4.170	3.75	322	1.30	10000	
Sr	88	103	1	He	55.449	55.449	4.15	281070	0.02	10000	
Mo	95	103	1	He	7.095	7.095	3.79	20024	0.04	2000	
Ag	107	103	1	He	0.168	0.168	10.72	1616	0.01	300	
Cd	111	103	1	He	0.868	0.868	7.82	2155	0.04	4000	
Sn	118	115	1	He	17.085	17.085	0.96	60549	0.03	2000	
Sb	123	115	1	He	0.591	0.591	1.44	3033	0.02	300	
Ba	137	115	1	He	290.298	290.298	0.80	425528	0.07	10000	
W	182	165	1	He	0.739	0.739	11.65	11268	0.01	2500	
Tl	205	209	1	He	0.816	0.816	2.95	20731	0.00	5000	
Pb	208	209	1	He	90.961	90.961	0.92	2983051	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1607789	1.22	1803797	89.13	30	120	
Sc	45	1	He	546363	0.29	574766	95.06	30	120	
Sc	45	2	NoGas	4330184	1.03	4296857	100.78	30	120	
Rh	103	1	He	1530182	4.08	1652712	92.59	30	120	
In	115	1	He	798671	0.63	852389	93.70	30	120	
Tb	159	1	He	2485280	0.57	2425956	102.45	30	120	
Ho	165	1	He	2571701	1.23	2452680	104.85	30	120	
Bi	209	1	He	1810020	0.68	1810473	99.97	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-4-b@2
Data File Name	130SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:45:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.626	2.626	0.87	13265	0.02	10000	
B	11	45	2	NoGas	34.590	34.590	2.39	129072	0.03	300	
Na	23	45	1	He	169.366	169.366	1.68	283335	0.06	500000	
Mg	24	45	1	He	13330.450	13330.450	0.81	11204402	0.12	500000	
Al	27	45	1	He	46166.447	46166.447	1.14	20178982	0.23	200000	
K	39	45	1	He	3948.787	3948.787	0.60	2667940	0.15	500000	
Ca	44	45	1	He	32257.121	32257.121	1.13	1135194	2.84	500000	
Ti	47	45	1	He	355.796	355.796	0.56	74520	0.48	2500	
V	51	45	1	He	93.288	93.288	1.42	499439	0.02	10000	
Cr	52	45	1	He	88.434	88.434	0.21	583427	0.02	10000	
Mn	55	45	1	He	2310.727	2310.727	0.89	10731489	0.02	10000	
Fe	56	45	1	He	109326.927	109326.927	0.17	657268881	0.02	200000	
Co	59	103	1	He	36.743	36.743	2.98	352913	0.01	10000	
Ni	60	103	1	He	101.450	101.450	2.92	247850	0.04	10000	
Cu	63	103	1	He	76.833	76.833	3.35	502661	0.02	10000	
Zn	66	103	1	He	310.567	310.567	2.98	412106	0.08	10000	
As	75	103	1	He	58.634	58.634	2.53	49343	0.12	10000	
Se	78	103	1	He	4.398	4.398	9.94	332	1.32	10000	
Sr	88	103	1	He	73.145	73.145	3.67	364998	0.02	10000	
Mo	95	103	1	He	6.795	6.795	3.86	18902	0.04	2000	
Ag	107	103	1	He	0.177	0.177	6.59	1681	0.01	300	
Cd	111	103	1	He	0.905	0.905	1.48	2182	0.04	4000	
Sn	118	115	1	He	18.797	18.797	1.19	66044	0.03	2000	
Sb	123	115	1	He	0.625	0.625	3.31	3135	0.02	300	
Ba	137	115	1	He	301.016	301.016	1.07	437909	0.07	10000	
W	182	165	1	He	0.433	0.433	3.11	7591	0.01	2500	
Tl	205	209	1	He	0.800	0.800	1.56	20246	0.00	5000	
Pb	208	209	1	He	100.024	100.024	0.14	3267824	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612968	2.41	1803797	89.42	30	120	
Sc	45	1	He	554048	0.62	574766	96.40	30	120	
Sc	45	2	NoGas	4378193	0.93	4296857	101.89	30	120	
Rh	103	1	He	1506091	3.42	1652712	91.13	30	120	
In	115	1	He	792737	1.24	852389	93.00	30	120	
Tb	159	1	He	2472482	0.23	2425956	101.92	30	120	
Ho	165	1	He	2512012	0.48	2452680	102.42	30	120	
Bi	209	1	He	1803136	0.36	1810473	99.59	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	131_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:48:53-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.404	2.860	236833	2.46	50	92.8	89.5	110.5	
B	11	45	2	NoGas	61.180	0.997	224311	0.76	50	122.4	89.5	110.5	CCV Failed
Na	23	45	1	He	25188.343	3.269	38025132	0.87	25000	100.8	89.5	110.5	
Mg	24	45	1	He	25062.730	2.267	21438500	0.39	25000	100.3	89.5	110.5	
Al	27	45	1	He	248.870	1.522	111454	0.95	250	99.5	89.5	110.5	
K	39	45	1	He	25994.556	3.034	17517078	0.68	25000	104.0	89.5	110.5	
Ca	44	45	1	He	24797.395	2.089	888254	0.47	25000	99.2	89.5	110.5	
Ti	47	45	1	He	50.154	2.571	10697	4.03	50	100.3	89.5	110.5	
V	51	45	1	He	51.056	1.712	278358	1.91	50	102.1	89.5	110.5	
Cr	52	45	1	He	50.285	1.529	338934	0.99	50	100.6	89.5	110.5	
Mn	55	45	1	He	251.786	1.873	1190326	1.09	250	100.7	89.5	110.5	
Fe	56	45	1	He	12734.251	2.135	77921379	0.78	12500	101.9	89.5	110.5	
Co	59	103	1	He	46.571	1.557	482503	1.46	50	93.1	89.5	110.5	
Ni	60	103	1	He	46.464	2.089	122495	1.85	50	92.9	89.5	110.5	
Cu	63	103	1	He	46.367	0.782	328209	0.60	50	92.7	89.5	110.5	
Zn	66	103	1	He	47.286	1.625	68389	1.33	50	94.6	89.5	110.5	
As	75	103	1	He	47.806	0.462	43428	0.33	50	95.6	89.5	110.5	
Se	78	103	1	He	47.908	1.450	3616	1.44	50	95.8	89.5	110.5	
Sr	88	103	1	He	49.094	0.415	264356	0.41	50	98.2	89.5	110.5	
Mo	95	103	1	He	49.054	2.476	142931	2.50	50	98.1	89.5	110.5	
Ag	107	103	1	He	48.948	0.798	491491	0.66	50	97.9	89.5	110.5	
Cd	111	103	1	He	49.251	0.686	83428	0.41	50	98.5	89.5	110.5	
Sn	118	115	1	He	49.828	0.818	185330	1.28	50	99.7	89.5	110.5	
Sb	123	115	1	He	52.714	0.800	207780	0.39	50	105.4	89.5	110.5	
Ba	137	115	1	He	52.718	1.690	81826	1.33	50	105.4	89.5	110.5	
W	182	165	1	He	47.081	0.269	545141	1.33	50	94.2	89.5	110.5	
Tl	205	209	1	He	47.134	1.635	1207231	1.06	50	94.3	89.5	110.5	
Pb	208	209	1	He	48.396	0.994	1631499	0.45	50	96.8	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1630467	0.75	1803797	90.39	30	120	
Sc	45	1	He	564070	2.47	574766	98.14	30	120	
Sc	45	2	NoGas	4389487	0.66	4296857	102.16	30	120	
Rh	103	1	He	1623545	0.29	1652712	98.24	30	120	
In	115	1	He	845652	0.68	852389	99.21	30	120	
Tb	159	1	He	2531013	1.35	2425956	104.33	30	120	
Ho	165	1	He	2588366	1.23	2452680	105.53	30	120	
Bi	209	1	He	1860133	0.57	1810473	102.74	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	132_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:52:45-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.072	21.0	382	22.1	1	
B	11	45	2	NoGas	15.957	2.4	64163	1.6	20	
Na	23	45	1	He	16.112	10.5	56075	3.2	400	
Mg	24	45	1	He	2.148	28.2	2689	17.7	1000	
Al	27	45	1	He	9.840	0.4	5015	1.0	50	
K	39	45	1	He	7.201	12.4	67091	0.7	1000	
Ca	44	45	1	He	4.533	9.2	712	3.0	1000	
Ti	47	45	1	He	0.165	15.9	36	14.3	20	
V	51	45	1	He	0.060	200.0	568	111.6	2	
Cr	52	45	1	He	-0.054	-28.7	2541	4.2	2	
Mn	55	45	1	He	0.202	13.4	1098	10.3	2	
Fe	56	45	1	He	18.127	22.2	114493	20.0	50	
Co	59	103	1	He	0.015	24.4	223	18.3	1	
Ni	60	103	1	He	0.016	38.8	142	12.0	2	
Cu	63	103	1	He	-0.157	-7.9	1408	6.3	2	
Zn	66	103	1	He	0.504	16.3	1626	8.1	20	
As	75	103	1	He	0.025	19.4	226	1.5	2	
Se	78	103	1	He	0.240	31.5	49	12.6	2	
Sr	88	103	1	He	0.025	94.3	284	45.2	10	
Mo	95	103	1	He	0.567	36.1	2437	25.5	2	
Ag	107	103	1	He	0.002	102.3	52	37.4	0.2	
Cd	111	103	1	He	0.045	27.3	953	2.9	0.2	
Sn	118	115	1	He	0.245	12.5	1837	6.2	10	
Sb	123	115	1	He	0.101	43.7	1339	13.3	1	
Ba	137	115	1	He	0.038	60.7	74	49.3	5	
W	182	165	1	He	0.875	17.9	13136	14.2	10	
Tl	205	209	1	He	0.043	21.3	1572	15.3	0.5	
Pb	208	209	1	He	0.037	4.9	2246	2.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1663877	1.21	1803797	92.24	30	120	
Sc	45	1	He	553222	1.28	574766	96.25	30	120	
Sc	45	2	NoGas	4477033	2.02	4296857	104.19	30	120	
Rh	103	1	He	1699587	0.66	1652712	102.84	30	120	
In	115	1	He	879114	0.22	852389	103.14	30	120	
Tb	159	1	He	2567816	1.41	2425956	105.85	30	120	
Ho	165	1	He	2632850	0.48	2452680	107.35	30	120	
Bi	209	1	He	1946129	0.26	1810473	107.49	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-8-d@2
Data File Name	133SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:56:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.450	1.450	2.83	7346	0.02	10000	
B	11	45	2	NoGas	31.456	31.456	0.84	119289	0.03	300	
Na	23	45	1	He	322.490	322.490	2.07	520460	0.06	500000	
Mg	24	45	1	He	17840.962	17840.962	1.30	15295830	0.12	500000	
Al	27	45	1	He	23681.301	23681.301	2.07	10557134	0.22	200000	
K	39	45	1	He	4230.697	4230.697	1.21	2910882	0.15	500000	
Ca	44	45	1	He	21749.058	21749.058	1.07	780822	2.79	500000	
Ti	47	45	1	He	220.968	220.968	1.31	47204	0.47	2500	
V	51	45	1	He	45.215	45.215	2.56	246995	0.02	10000	
Cr	52	45	1	He	41.717	41.717	1.36	282266	0.01	10000	
Mn	55	45	1	He	1777.706	1777.706	0.98	8420999	0.02	10000	
Fe	56	45	1	He	103105.501	103105.501	1.52	632195513	0.02	200000	
Co	59	103	1	He	33.701	33.701	2.30	334124	0.01	10000	
Ni	60	103	1	He	73.481	73.481	1.23	185345	0.04	10000	
Cu	63	103	1	He	83.640	83.640	1.85	564666	0.01	10000	
Zn	66	103	1	He	226.106	226.106	1.29	309945	0.07	10000	
As	75	103	1	He	95.321	95.321	2.23	82673	0.12	10000	
Se	78	103	1	He	2.794	2.794	6.91	228	1.23	10000	
Sr	88	103	1	He	45.242	45.242	2.16	233124	0.02	10000	
Mo	95	103	1	He	5.199	5.199	1.88	15080	0.03	2000	
Ag	107	103	1	He	0.085	0.085	6.83	848	0.01	300	
Cd	111	103	1	He	0.552	0.552	3.34	1684	0.03	4000	
Sn	118	115	1	He	16.844	16.844	3.63	61025	0.03	2000	
Sb	123	115	1	He	0.440	0.440	8.12	2528	0.02	300	
Ba	137	115	1	He	134.136	134.136	0.53	200952	0.07	10000	
W	182	165	1	He	0.432	0.432	15.09	7787	0.01	2500	
Tl	205	209	1	He	0.520	0.520	0.52	13740	0.00	5000	
Pb	208	209	1	He	48.585	48.585	1.13	1641146	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1617333	1.25	1803797	89.66	30	120	
Sc	45	1	He	565171	1.74	574766	98.33	30	120	
Sc	45	2	NoGas	4428912	1.60	4296857	103.07	30	120	
Rh	103	1	He	1553946	1.79	1652712	94.02	30	120	
In	115	1	He	816276	0.61	852389	95.76	30	120	
Tb	159	1	He	2515756	1.19	2425956	103.70	30	120	
Ho	165	1	He	2584166	1.79	2452680	105.36	30	120	
Bi	209	1	He	1863955	1.26	1810473	102.95	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-15-f@2
Data File Name	134SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:00:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.163	2.163	6.36	11252	0.02	10000	
B	11	45	2	NoGas	37.263	37.263	0.31	141684	0.03	300	
Na	23	45	1	He	346.941	346.941	0.68	562829	0.06	500000	
Mg	24	45	1	He	26250.821	26250.821	0.88	22719845	0.12	500000	
Al	27	45	1	He	38189.763	38189.763	0.20	17189991	0.22	200000	
K	39	45	1	He	6290.078	6290.078	0.83	4338115	0.14	500000	
Ca	44	45	1	He	32941.619	32941.619	1.24	1193678	2.76	500000	
Ti	47	45	1	He	294.058	294.058	0.72	63422	0.46	2500	
V	51	45	1	He	64.265	64.265	1.06	354397	0.02	10000	
Cr	52	45	1	He	62.855	62.855	0.71	427870	0.01	10000	
Mn	55	45	1	He	1053.316	1053.316	1.97	5037163	0.02	10000	
Fe	56	45	1	He	125536.520	125536.520	1.38	777133622	0.02	200000	
Co	59	103	1	He	46.976	46.976	0.99	472352	0.01	10000	
Ni	60	103	1	He	107.315	107.315	0.88	274472	0.04	10000	
Cu	63	103	1	He	99.548	99.548	1.15	681158	0.01	10000	
Zn	66	103	1	He	288.395	288.395	1.78	400675	0.07	10000	
As	75	103	1	He	70.189	70.189	1.90	61789	0.11	10000	
Se	78	103	1	He	3.797	3.797	5.47	304	1.25	10000	
Sr	88	103	1	He	83.702	83.702	1.13	437332	0.02	10000	
Mo	95	103	1	He	5.332	5.332	2.51	15669	0.03	2000	
Ag	107	103	1	He	0.097	0.097	8.65	971	0.01	300	
Cd	111	103	1	He	0.596	0.596	4.56	1781	0.03	4000	
Sn	118	115	1	He	16.733	16.733	2.88	61044	0.03	2000	
Sb	123	115	1	He	0.305	0.305	10.38	2028	0.02	300	
Ba	137	115	1	He	169.246	169.246	0.90	255317	0.07	10000	
W	182	165	1	He	0.229	0.229	13.22	5560	0.00	2500	
Tl	205	209	1	He	0.553	0.553	1.98	14385	0.00	5000	
Pb	208	209	1	He	54.332	54.332	0.65	1808411	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1661686	1.44	1803797	92.12	30	120	
Sc	45	1	He	570539	0.63	574766	99.26	30	120	
Sc	45	2	NoGas	4475522	0.53	4296857	104.16	30	120	
Rh	103	1	He	1575789	1.01	1652712	95.35	30	120	
In	115	1	He	821967	0.39	852389	96.43	30	120	
Tb	159	1	He	2551547	0.59	2425956	105.18	30	120	
Ho	165	1	He	2631023	1.02	2452680	107.27	30	120	
Bi	209	1	He	1836634	0.22	1810473	101.45	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-22-d@2
Data File Name	135SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:04:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.909	2.909	4.07	15014	0.02	10000	
B	11	45	2	NoGas	44.096	44.096	1.48	167550	0.03	300	
Na	23	45	1	He	340.549	340.549	0.92	560946	0.06	500000	
Mg	24	45	1	He	27770.576	27770.576	0.95	24378031	0.11	500000	
Al	27	45	1	He	44707.682	44707.682	1.24	20409595	0.22	200000	
K	39	45	1	He	7971.479	7971.479	1.01	5558522	0.14	500000	
Ca	44	45	1	He	27344.818	27344.818	0.34	1005128	2.72	500000	
Ti	47	45	1	He	305.773	305.773	0.56	66887	0.46	2500	
V	51	45	1	He	74.075	74.075	1.38	414237	0.02	10000	
Cr	52	45	1	He	71.897	71.897	0.25	495969	0.01	10000	
Mn	55	45	1	He	1679.229	1679.229	0.84	8145104	0.02	10000	
Fe	56	45	1	He	138871.775	138871.775	0.29	871976339	0.02	200000	
Co	59	103	1	He	55.390	55.390	1.13	556542	0.01	10000	
Ni	60	103	1	He	134.692	134.692	1.25	344213	0.04	10000	
Cu	63	103	1	He	92.706	92.706	1.01	634046	0.01	10000	
Zn	66	103	1	He	302.906	302.906	1.13	420509	0.07	10000	
As	75	103	1	He	83.556	83.556	0.68	73474	0.11	10000	
Se	78	103	1	He	4.106	4.106	4.76	326	1.26	10000	
Sr	88	103	1	He	86.782	86.782	0.54	453094	0.02	10000	
Mo	95	103	1	He	5.282	5.282	1.33	15519	0.03	2000	
Ag	107	103	1	He	0.117	0.117	0.52	1171	0.01	300	
Cd	111	103	1	He	0.629	0.629	8.27	1833	0.03	4000	
Sn	118	115	1	He	16.895	16.895	2.15	61378	0.03	2000	
Sb	123	115	1	He	0.341	0.341	8.08	2159	0.02	300	
Ba	137	115	1	He	218.343	218.343	0.27	328019	0.07	10000	
W	182	165	1	He	0.192	0.192	20.56	5160	0.00	2500	
Tl	205	209	1	He	0.675	0.675	1.97	17358	0.00	5000	
Pb	208	209	1	He	59.969	59.969	1.00	1982774	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1647773	1.35	1803797	91.35	30	120	
Sc	45	1	He	578671	0.78	574766	100.68	30	120	
Sc	45	2	NoGas	4502588	1.18	4296857	104.79	30	120	
Rh	103	1	He	1574630	0.89	1652712	95.28	30	120	
In	115	1	He	818567	0.36	852389	96.03	30	120	
Tb	159	1	He	2573351	0.65	2425956	106.08	30	120	
Ho	165	1	He	2647566	0.78	2452680	107.95	30	120	
Bi	209	1	He	1824660	1.35	1810473	100.78	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-34-d@2
Data File Name	136SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:08:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.220	2.220	2.75	11523	0.02	10000	
B	11	45	2	NoGas	33.688	33.688	1.76	130218	0.03	300	
Na	23	45	1	He	289.655	289.655	1.30	475459	0.06	500000	
Mg	24	45	1	He	26103.968	26103.968	1.23	22596583	0.12	500000	
Al	27	45	1	He	38204.831	38204.831	1.96	17198001	0.22	200000	
K	39	45	1	He	6005.610	6005.610	0.64	4145599	0.14	500000	
Ca	44	45	1	He	49250.666	49250.666	2.04	1785027	2.76	500000	
Ti	47	45	1	He	327.079	327.079	1.19	70554	0.46	2500	
V	51	45	1	He	63.942	63.942	2.38	352637	0.02	10000	
Cr	52	45	1	He	62.292	62.292	1.27	424125	0.01	10000	
Mn	55	45	1	He	1569.814	1569.814	1.55	7508762	0.02	10000	
Fe	56	45	1	He	121171.414	121171.414	0.48	750287810	0.02	200000	
Co	59	103	1	He	45.624	45.624	2.82	462307	0.01	10000	
Ni	60	103	1	He	107.866	107.866	3.13	277997	0.04	10000	
Cu	63	103	1	He	83.243	83.243	2.72	574404	0.01	10000	
Zn	66	103	1	He	265.976	265.976	2.88	372467	0.07	10000	
As	75	103	1	He	72.278	72.278	2.67	64121	0.11	10000	
Se	78	103	1	He	3.616	3.616	2.23	293	1.23	10000	
Sr	88	103	1	He	84.978	84.978	2.56	447445	0.02	10000	
Mo	95	103	1	He	4.360	4.360	1.44	13036	0.03	2000	
Ag	107	103	1	He	0.087	0.087	4.77	881	0.01	300	
Cd	111	103	1	He	0.502	0.502	5.13	1641	0.03	4000	
Sn	118	115	1	He	16.945	16.945	1.28	62063	0.03	2000	
Sb	123	115	1	He	0.267	0.267	15.38	1890	0.01	300	
Ba	137	115	1	He	197.830	197.830	1.57	299618	0.07	10000	
W	182	165	1	He	0.176	0.176	14.21	4945	0.00	2500	
Tl	205	209	1	He	0.654	0.654	1.44	17150	0.00	5000	
Pb	208	209	1	He	45.566	45.566	0.62	1535580	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1657471	1.12	1803797	91.89	30	120	
Sc	45	1	He	570659	1.10	574766	99.29	30	120	
Sc	45	2	NoGas	4529560	0.85	4296857	105.42	30	120	
Rh	103	1	He	1588661	2.66	1652712	96.12	30	120	
In	115	1	He	825268	0.77	852389	96.82	30	120	
Tb	159	1	He	2572580	1.08	2425956	106.04	30	120	
Ho	165	1	He	2636397	1.00	2452680	107.49	30	120	
Bi	209	1	He	1859376	0.30	1810473	102.70	30	120	

Sample Report

Sample Table

Sample Name	240-49171-b-19-a@2
Data File Name	137SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:11:51-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.465	0.465	14.25	2345	0.02	10000	
B	11	45	2	NoGas	17.344	17.344	2.16	67174	0.03	300	
Na	23	45	1	He	90.631	90.631	1.46	165331	0.05	500000	
Mg	24	45	1	He	882.472	882.472	0.79	736703	0.12	500000	
Al	27	45	1	He	5253.318	5253.318	0.93	2278649	0.23	200000	
K	39	45	1	He	943.895	943.895	1.00	679803	0.14	500000	
Ca	44	45	1	He	361.121	361.121	2.63	13151	2.75	500000	
Ti	47	45	1	He	83.466	83.466	4.09	17342	0.48	2500	
V	51	45	1	He	14.258	14.258	2.94	75935	0.02	10000	
Cr	52	45	1	He	12.334	12.334	0.26	83200	0.01	10000	
Mn	55	45	1	He	132.324	132.324	0.39	609841	0.02	10000	
Fe	56	45	1	He	15703.982	15703.982	0.71	93666950	0.02	200000	
Co	59	103	1	He	5.416	5.416	1.42	57063	0.01	10000	
Ni	60	103	1	He	15.065	15.065	1.54	40424	0.04	10000	
Cu	63	103	1	He	7.527	7.527	2.91	56214	0.01	10000	
Zn	66	103	1	He	133.058	133.058	1.95	194000	0.07	10000	
As	75	103	1	He	19.409	19.409	1.91	18030	0.11	10000	
Se	78	103	1	He	0.837	0.837	21.34	93	0.90	10000	
Sr	88	103	1	He	6.102	6.102	1.30	33513	0.02	10000	
Mo	95	103	1	He	2.994	2.994	3.40	9516	0.03	2000	
Ag	107	103	1	He	0.011	0.011	9.03	149	0.01	300	
Cd	111	103	1	He	0.117	0.117	29.67	1048	0.01	4000	
Sn	118	115	1	He	17.978	17.978	2.25	66750	0.03	2000	
Sb	123	115	1	He	0.172	0.172	9.77	1549	0.01	300	
Ba	137	115	1	He	27.736	27.736	0.77	42634	0.07	10000	
W	182	165	1	He	0.143	0.143	18.56	4497	0.00	2500	
Tl	205	209	1	He	0.148	0.148	1.31	4273	0.00	5000	
Pb	208	209	1	He	8.833	8.833	0.66	303606	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1611819	2.78	1803797	89.36	30	120	
Sc	45	1	He	549665	0.69	574766	95.63	30	120	
Sc	45	2	NoGas	4344376	1.54	4296857	101.11	30	120	
Rh	103	1	He	1649935	1.84	1652712	99.83	30	120	
In	115	1	He	837321	0.12	852389	98.23	30	120	
Tb	159	1	He	2538010	0.46	2425956	104.62	30	120	
Ho	165	1	He	2599745	1.00	2452680	106.00	30	120	
Bi	209	1	He	1891716	0.41	1810473	104.49	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-6-h@2
Data File Name	138SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:15:43-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	4.020	4.020	2.74	20382	0.02	10000	
B	11	45	2	NoGas	21.004	21.004	0.32	83093	0.03	300	
Na	23	45	1	He	169.299	169.299	0.82	302233	0.06	500000	
Mg	24	45	1	He	10592.111	10592.111	0.53	9499575	0.11	500000	
Al	27	45	1	He	61338.254	61338.254	0.83	28606862	0.21	200000	
K	39	45	1	He	3807.753	3807.753	1.15	2747310	0.14	500000	
Ca	44	45	1	He	859.367	859.367	0.98	32843	2.62	500000	
Ti	47	45	1	He	525.817	525.817	1.03	117506	0.45	2500	
V	51	45	1	He	130.305	130.305	0.74	744273	0.02	10000	
Cr	52	45	1	He	100.147	100.147	0.36	704553	0.01	10000	
Mn	55	45	1	He	4279.221	4279.221	1.33	21205339	0.02	10000	
Fe	56	45	1	He	127276.121	127276.121	0.87	816421870	0.02	200000	
Co	59	103	1	He	59.050	59.050	1.48	607452	0.01	10000	
Ni	60	103	1	He	86.153	86.153	2.53	225434	0.04	10000	
Cu	63	103	1	He	72.162	72.162	1.43	505842	0.01	10000	
Zn	66	103	1	He	279.149	279.149	0.92	396845	0.07	10000	
As	75	103	1	He	61.550	61.550	1.52	55462	0.11	10000	
Se	78	103	1	He	5.932	5.932	5.49	470	1.26	10000	
Sr	88	103	1	He	17.804	17.804	1.58	95276	0.02	10000	
Mo	95	103	1	He	8.198	8.198	2.61	24279	0.03	2000	
Ag	107	103	1	He	0.178	0.178	1.76	1810	0.01	300	
Cd	111	103	1	He	0.725	0.725	2.86	2036	0.04	4000	
Sn	118	115	1	He	20.419	20.419	1.56	74564	0.03	2000	
Sb	123	115	1	He	0.501	0.501	10.67	2787	0.02	300	
Ba	137	115	1	He	468.205	468.205	0.56	708706	0.07	10000	
W	182	165	1	He	0.306	0.306	11.01	6435	0.00	2500	
Tl	205	209	1	He	0.843	0.843	0.86	22157	0.00	5000	
Pb	208	209	1	He	90.386	90.386	2.81	3067850	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1619480	1.17	1803797	89.78	30	120	
Sc	45	1	He	591161	0.45	574766	102.85	30	120	
Sc	45	2	NoGas	4506475	0.92	4296857	104.88	30	120	
Rh	103	1	He	1612241	1.26	1652712	97.55	30	120	
In	115	1	He	824777	0.67	852389	96.76	30	120	
Tb	159	1	He	2544432	0.72	2425956	104.88	30	120	
Ho	165	1	He	2618299	1.36	2452680	106.75	30	120	
Bi	209	1	He	1873904	1.88	1810473	103.50	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-8-f@2
Data File Name	139SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:19:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.908	3.908	2.53	18907	0.02	10000	
B	11	45	2	NoGas	22.320	22.320	0.50	83331	0.03	300	
Na	23	45	1	He	151.440	151.440	0.76	256549	0.06	500000	
Mg	24	45	1	He	11062.525	11062.525	1.20	9290142	0.12	500000	
Al	27	45	1	He	63111.826	63111.826	1.47	27562142	0.23	200000	
K	39	45	1	He	4053.661	4053.661	0.54	2734697	0.15	500000	
Ca	44	45	1	He	1296.503	1296.503	1.27	46114	2.81	500000	
Ti	47	45	1	He	567.558	567.558	0.21	118764	0.48	2500	
V	51	45	1	He	128.398	128.398	0.52	686712	0.02	10000	
Cr	52	45	1	He	89.418	89.418	0.28	589356	0.02	10000	
Mn	55	45	1	He	3154.505	3154.505	0.12	14637105	0.02	10000	
Fe	56	45	1	He	129056.212	129056.212	0.37	775172627	0.02	200000	
Co	59	103	1	He	52.604	52.604	1.86	495907	0.01	10000	
Ni	60	103	1	He	104.488	104.488	2.94	250523	0.04	10000	
Cu	63	103	1	He	83.764	83.764	2.59	537680	0.02	10000	
Zn	66	103	1	He	294.505	294.505	1.68	383627	0.08	10000	
As	75	103	1	He	59.071	59.071	1.81	48786	0.12	10000	
Se	78	103	1	He	5.981	5.981	7.00	434	1.38	10000	
Sr	88	103	1	He	25.244	25.244	2.48	123739	0.02	10000	
Mo	95	103	1	He	8.706	8.706	0.98	23596	0.04	2000	
Ag	107	103	1	He	0.121	0.121	8.71	1136	0.01	300	
Cd	111	103	1	He	0.966	0.966	8.80	2236	0.04	4000	
Sn	118	115	1	He	17.631	17.631	2.73	60873	0.03	2000	
Sb	123	115	1	He	0.626	0.626	7.46	3079	0.02	300	
Ba	137	115	1	He	449.679	449.679	0.86	642391	0.07	10000	
W	182	165	1	He	0.300	0.300	17.43	6224	0.00	2500	
Tl	205	209	1	He	0.892	0.892	0.15	22744	0.00	5000	
Pb	208	209	1	He	67.012	67.012	0.50	2209785	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1545131	0.87	1803797	85.66	30	120	
Sc	45	1	He	553548	0.28	574766	96.31	30	120	
Sc	45	2	NoGas	4271688	2.12	4296857	99.41	30	120	
Rh	103	1	He	1477601	1.70	1652712	89.40	30	120	
In	115	1	He	778419	0.70	852389	91.32	30	120	
Tb	159	1	He	2489118	1.54	2425956	102.60	30	120	
Ho	165	1	He	2561616	1.50	2452680	104.44	30	120	
Bi	209	1	He	1819757	0.28	1810473	100.51	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-10-h@2
Data File Name	140SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:23:17-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.876	1.876	8.11	8658	0.02	10000	
B	11	45	2	NoGas	17.910	17.910	3.67	62197	0.03	300	
Na	23	45	1	He	118.821	118.821	1.89	191046	0.06	500000	
Mg	24	45	1	He	6223.547	6223.547	1.75	4795372	0.13	500000	
Al	27	45	1	He	30542.849	30542.849	0.83	12237621	0.25	200000	
K	39	45	1	He	2762.665	2762.665	3.40	1728233	0.16	500000	
Ca	44	45	1	He	690.098	690.098	1.90	22759	3.03	500000	
Ti	47	45	1	He	430.993	430.993	0.88	82746	0.52	2500	
V	51	45	1	He	80.181	80.181	0.53	393516	0.02	10000	
Cr	52	45	1	He	92.557	92.557	0.18	559593	0.02	10000	
Mn	55	45	1	He	1528.935	1528.935	0.70	6508825	0.02	10000	
Fe	56	45	1	He	79971.608	79971.608	0.40	440711894	0.02	200000	
Co	59	103	1	He	32.009	32.009	0.31	288337	0.01	10000	
Ni	60	103	1	He	66.644	66.644	0.34	152720	0.04	10000	
Cu	63	103	1	He	28.478	28.478	0.18	176075	0.02	10000	
Zn	66	103	1	He	164.046	164.046	0.11	204487	0.08	10000	
As	75	103	1	He	59.589	59.589	0.62	47020	0.13	10000	
Se	78	103	1	He	2.894	2.894	3.76	214	1.35	10000	
Sr	88	103	1	He	11.679	11.679	1.61	54767	0.02	10000	
Mo	95	103	1	He	5.856	5.856	2.23	15356	0.04	2000	
Ag	107	103	1	He	0.103	0.103	2.78	930	0.01	300	
Cd	111	103	1	He	0.434	0.434	12.78	1359	0.03	4000	
Sn	118	115	1	He	17.568	17.568	1.15	59278	0.03	2000	
Sb	123	115	1	He	0.249	0.249	18.20	1681	0.01	300	
Ba	137	115	1	He	184.264	184.264	0.33	257262	0.07	10000	
W	182	165	1	He	0.231	0.231	7.37	5223	0.00	2500	
Tl	205	209	1	He	0.439	0.439	1.93	11052	0.00	5000	
Pb	208	209	1	He	38.395	38.395	0.39	1227105	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1474507	0.77	1803797	81.74	30	120	
Sc	45	1	He	507861	0.67	574766	88.36	30	120	
Sc	45	2	NoGas	3906392	0.33	4296857	90.91	30	120	
Rh	103	1	He	1411483	0.15	1652712	85.40	30	120	
In	115	1	He	760712	0.38	852389	89.24	30	120	
Tb	159	1	He	2366204	0.79	2425956	97.54	30	120	
Ho	165	1	He	2457831	1.24	2452680	100.21	30	120	
Bi	209	1	He	1763199	0.49	1810473	97.39	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	141_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:27:07-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.563	2.440	218793	2.32	50	95.1	89.5	110.5	
B	11	45	2	NoGas	54.852	0.407	185136	1.62	50	109.7	89.5	110.5	
Na	23	45	1	He	25341.469	0.985	34638207	0.26	25000	101.4	89.5	110.5	
Mg	24	45	1	He	25150.968	1.411	19475654	0.56	25000	100.6	89.5	110.5	
Al	27	45	1	He	248.630	2.912	100778	2.07	250	99.5	89.5	110.5	
K	39	45	1	He	25710.268	2.375	15686033	1.67	25000	102.8	89.5	110.5	
Ca	44	45	1	He	24938.475	1.753	808632	0.91	25000	99.8	89.5	110.5	
Ti	47	45	1	He	50.278	2.499	9702	1.52	50	100.6	89.5	110.5	
V	51	45	1	He	51.840	1.891	255815	1.80	50	103.7	89.5	110.5	
Cr	52	45	1	He	50.700	1.675	309298	1.07	50	101.4	89.5	110.5	
Mn	55	45	1	He	252.603	1.397	1080945	0.36	250	101.0	89.5	110.5	
Fe	56	45	1	He	12886.016	1.527	71377699	1.00	12500	103.1	89.5	110.5	
Co	59	103	1	He	48.379	0.499	440483	0.99	50	96.8	89.5	110.5	
Ni	60	103	1	He	48.123	0.878	111488	0.27	50	96.2	89.5	110.5	
Cu	63	103	1	He	47.945	0.554	298170	0.90	50	95.9	89.5	110.5	
Zn	66	103	1	He	48.998	0.233	62250	0.84	50	98.0	89.5	110.5	
As	75	103	1	He	49.704	0.473	39671	0.85	50	99.4	89.5	110.5	
Se	78	103	1	He	48.890	2.175	3242	1.41	50	97.8	89.5	110.5	
Sr	88	103	1	He	51.182	0.696	242178	0.74	50	102.4	89.5	110.5	
Mo	95	103	1	He	51.802	2.025	132610	2.41	50	103.6	89.5	110.5	
Ag	107	103	1	He	52.306	0.648	461541	0.81	50	104.6	89.5	110.5	
Cd	111	103	1	He	51.888	0.922	77198	0.45	50	103.8	89.5	110.5	
Sn	118	115	1	He	50.954	1.162	176486	0.93	50	101.9	89.5	110.5	
Sb	123	115	1	He	53.045	1.634	194716	0.17	50	106.1	89.5	110.5	
Ba	137	115	1	He	53.000	0.846	76620	0.83	50	106.0	89.5	110.5	
W	182	165	1	He	47.275	0.826	528246	1.99	50	94.5	89.5	110.5	
Tl	205	209	1	He	46.726	0.432	1162876	0.20	50	93.5	89.5	110.5	
Pb	208	209	1	He	48.474	0.199	1587810	0.24	50	96.9	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1469499	0.77	1803797	81.47	30	120	
Sc	45	1	He	510487	1.06	574766	88.82	30	120	
Sc	45	2	NoGas	4028305	1.36	4296857	93.75	30	120	
Rh	103	1	He	1426736	0.75	1652712	86.33	30	120	
In	115	1	He	787665	1.51	852389	92.41	30	120	
Tb	159	1	He	2430305	1.78	2425956	100.18	30	120	
Ho	165	1	He	2497875	1.62	2452680	101.84	30	120	
Bi	209	1	He	1807345	0.44	1810473	99.83	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	142_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:30:59-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.056	16.9	267	15.0	1	
B	11	45	2	NoGas	9.279	3.0	36047	1.8	20	
Na	23	45	1	He	14.810	11.3	49806	4.0	400	
Mg	24	45	1	He	2.121	13.6	2456	8.5	1000	
Al	27	45	1	He	9.571	2.3	4504	1.6	50	
K	39	45	1	He	12.625	28.0	64980	2.9	1000	
Ca	44	45	1	He	2.300	42.8	583	4.9	1000	
Ti	47	45	1	He	0.151	52.9	30	50.9	20	
V	51	45	1	He	0.047	214.7	460	106.9	2	
Cr	52	45	1	He	-0.046	-19.6	2388	1.7	2	
Mn	55	45	1	He	0.278	5.6	1335	4.4	2	
Fe	56	45	1	He	17.359	20.6	101148	19.0	50	
Co	59	103	1	He	0.008	42.4	129	24.0	1	
Ni	60	103	1	He	0.008	67.6	112	12.0	2	
Cu	63	103	1	He	-0.180	-6.7	1149	8.2	2	
Zn	66	103	1	He	0.456	5.3	1446	1.9	20	
As	75	103	1	He	-0.010	-326.6	180	15.6	2	
Se	78	103	1	He	0.052	152.6	32	17.0	2	
Sr	88	103	1	He	0.009	15.4	184	2.8	10	
Mo	95	103	1	He	0.678	29.4	2584	22.5	2	
Ag	107	103	1	He	0.001	192.9	39	40.5	0.2	
Cd	111	103	1	He	0.012	189.4	833	3.4	0.2	
Sn	118	115	1	He	0.189	13.5	1522	5.5	10	
Sb	123	115	1	He	0.089	45.7	1208	12.3	1	
Ba	137	115	1	He	0.024	51.1	49	37.6	5	
W	182	165	1	He	0.886	20.7	12743	16.1	10	
Tl	205	209	1	He	0.036	28.1	1330	20.5	0.5	
Pb	208	209	1	He	0.028	3.6	1878	2.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1502860	1.99	1803797	83.32	30	120	
Sc	45	1	He	508736	0.61	574766	88.51	30	120	
Sc	45	2	NoGas	4048664	0.75	4296857	94.22	30	120	
Rh	103	1	He	1581362	1.25	1652712	95.68	30	120	
In	115	1	He	824787	0.56	852389	96.76	30	120	
Tb	159	1	He	2456737	0.48	2425956	101.27	30	120	
Ho	165	1	He	2530352	0.50	2452680	103.17	30	120	
Bi	209	1	He	1869272	1.34	1810473	103.25	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	143CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:34:50-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.916	0.916	7.960	4475	6.43	1	91.6	69.5	130.5	
B	11	2	NoGas	25.682	25.682	1.150	92164	1.82	20	128.4	69.5	130.5	
Na	23	1	He	1075.838	1075.838	2.302	1546021	0.75	1000	107.6	69.5	130.5	
Mg	24	1	He	1040.414	1040.414	1.186	831839	0.55	1000	104.0	69.5	130.5	
Al	27	1	He	50.777	50.777	1.348	21777	0.51	50	101.6	69.5	130.5	
K	39	1	He	1051.449	1051.449	2.032	718599	0.63	1000	105.1	69.5	130.5	
Ca	44	1	He	1018.792	1018.792	1.540	34579	0.34	1000	101.9	69.5	130.5	
Ti	47	1	He	10.709	10.709	1.839	2132	1.15	10	107.1	69.5	130.5	
V	51	1	He	5.407	5.407	1.312	27737	1.16	5	108.1	69.5	130.5	
Cr	52	1	He	3.941	3.941	1.119	27341	0.69	2	197.0	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	5.629	5.629	0.604	25000	1.64	5	112.6	69.5	130.5	
Fe	56	1	He	116.909	116.909	1.185	673498	0.54	100	116.9	69.5	130.5	
Co	59	1	He	0.938	0.938	3.271	9543	2.84	1	93.8	69.5	130.5	
Ni	60	1	He	2.685	2.685	2.295	6997	1.27	2	134.3	69.5	130.5	6020A CR1 Failed
Cu	63	1	He	1.676	1.676	4.068	13880	3.01	2	83.8	69.5	130.5	
Zn	66	1	He	18.670	18.670	2.184	26851	1.07	20	93.4	69.5	130.5	
As	75	1	He	4.710	4.710	1.835	4348	1.05	5	94.2	69.5	130.5	
Se	78	1	He	4.866	4.866	1.757	384	2.56	5	97.3	69.5	130.5	
Sr	88	1	He	9.693	9.693	1.646	51062	1.38	10	96.9	69.5	130.5	
Mo	95	1	He	9.789	9.789	3.002	28376	1.99	10	97.9	69.5	130.5	
Ag	107	1	He	0.990	0.990	5.954	9735	4.90	1	99.0	69.5	130.5	
Cd	111	1	He	1.068	1.068	1.798	2564	0.96	1	106.8	69.5	130.5	
Sn	118	1	He	10.055	10.055	1.981	37524	2.09	10	100.5	69.5	130.5	
Sb	123	1	He	1.857	1.857	0.696	8059	0.29	2	92.9	69.5	130.5	
Ba	137	1	He	5.390	5.390	3.069	8255	3.39	5	107.8	69.5	130.5	
W	182	1	He	9.698	9.698	1.349	110292	0.59	10	97.0	69.5	130.5	
Tl	205	1	He	1.897	1.897	2.272	49093	1.02	2	94.8	69.5	130.5	
Pb	208	1	He	1.057	1.057	2.489	36602	0.49	1	105.7	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1560031	2.32	1803797	86.49	30	120	
Sc	45	1	He	526590	1.69	574766	91.62	30	120	
Sc	45	2	NoGas	4143717	1.12	4296857	96.44	30	120	
Rh	103	1	He	1585090	1.03	1652712	95.91	30	120	
In	115	1	He	833194	0.34	852389	97.75	30	120	
Tb	159	1	He	2440507	0.82	2425956	100.60	30	120	
Ho	165	1	He	2492603	1.18	2452680	101.63	30	120	
Bi	209	1	He	1865108	2.56	1810473	103.02	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176698/1-a@2
Data File Name	144_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:38:41-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.081	36.1	382	33.8	1	
B	11	45	2	NoGas	12.008	3.0	43957	1.9	20	
Na	23	45	1	He	47.714	3.2	95204	0.9	400	
Mg	24	45	1	He	38.006	2.7	30341	0.7	1000	
Al	27	45	1	He	27.423	1.2	11746	1.8	50	
K	39	45	1	He	41.625	4.6	83097	1.5	1000	
Ca	44	45	1	He	130.372	5.3	4752	5.9	1000	
Ti	47	45	1	He	0.461	27.3	90	25.9	20	
V	51	45	1	He	0.278	17.4	1604	13.1	2	
Cr	52	45	1	He	0.998	2.5	8734	1.4	2	
Mn	55	45	1	He	0.568	3.7	2586	3.4	2	
Fe	56	45	1	He	17.787	3.9	104318	5.6	50	
Co	59	103	1	He	0.098	2.6	986	4.2	1	
Ni	60	103	1	He	0.284	15.1	778	15.2	2	
Cu	63	103	1	He	0.311	13.4	4262	5.3	2	
Zn	66	103	1	He	3.366	3.9	5198	3.0	20	
As	75	103	1	He	0.504	7.5	598	6.5	2	
Se	78	103	1	He	0.480	10.2	60	6.3	2	
Sr	88	103	1	He	0.388	5.7	2052	7.1	10	
Mo	95	103	1	He	0.406	21.8	1711	12.1	2	
Ag	107	103	1	He	0.009	22.2	108	14.6	0.2	
Cd	111	103	1	He	0.043	20.5	836	1.5	0.2	
Sn	118	115	1	He	17.180	1.3	60691	1.5	10	Blank Failed
Sb	123	115	1	He	0.080	19.3	1135	5.3	1	
Ba	137	115	1	He	0.966	6.0	1423	5.7	5	
W	182	165	1	He	0.494	12.1	8228	7.7	10	
Tl	205	209	1	He	0.328	3.9	8717	4.5	0.5	
Pb	208	209	1	He	0.253	2.5	9342	2.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1501941	2.48	1803797	83.27	30	120	
Sc	45	1	He	512125	1.92	574766	89.10	30	120	
Sc	45	2	NoGas	3952267	1.01	4296857	91.98	30	120	
Rh	103	1	He	1495999	1.90	1652712	90.52	30	120	
In	115	1	He	796188	0.24	852389	93.41	30	120	
Tb	159	1	He	2409514	1.17	2425956	99.32	30	120	
Ho	165	1	He	2499075	0.44	2452680	101.89	30	120	
Bi	209	1	He	1839140	0.74	1810473	101.58	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176698/2-a@2
Data File Name	145LCSS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:42:33-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	507.000	507.000	1.603	2363052	0.92	500	101.4	78.6	110.5	
B	11	2	NoGas	62.481	62.481	1.107	203655	0.49	50	125.0	79.5	120.5	LCSS Failed
Na	23	1	He	5041.215	5041.215	2.014	6825828	1.41	5000	100.8	79.5	120.5	
Mg	24	1	He	5022.529	5022.529	1.214	3840168	0.22	5000	100.5	79.5	120.5	
Al	27	1	He	4750.560	4750.560	1.852	1889127	0.66	5000	95.0	79.5	120.5	
K	39	1	He	5087.953	5087.953	1.256	3110208	0.11	5000	101.8	79.5	120.5	
Ca	44	1	He	4549.425	4549.425	0.913	146053	0.91	5000	91.0	79.5	120.5	
Ti	47	1	He	49.039	49.039	2.704	9341	1.56	50	98.1	79.5	120.5	
V	51	1	He	515.100	515.100	0.504	2507395	1.00	500	103.0	71.5	110.5	
Cr	52	1	He	508.692	508.692	1.044	3039902	0.73	500	101.7	69.5	110.5	
Mn	55	1	He	518.128	518.128	2.236	2188538	1.06	500	103.6	79.5	120.5	
Fe	56	1	He	5069.998	5069.998	1.787	27726301	0.49	5000	101.4	79.5	120.5	
Co	59	1	He	460.465	460.465	3.367	4325926	0.86	500	92.1	73.9	110.5	
Ni	60	1	He	450.424	450.424	3.533	1076111	0.56	500	90.1	74.9	110.5	
Cu	63	1	He	471.608	471.608	4.026	3006587	1.03	500	94.3	72.6	110.5	
Zn	66	1	He	444.310	444.310	2.076	576564	1.13	500	88.9	71.5	113.4	
As	75	1	He	439.435	439.435	2.662	360614	0.66	500	87.9	73.4	110.5	
Se	78	1	He	436.920	436.920	2.528	29696	0.48	500	87.4	64.6	110.5	
Sr	88	1	He	501.508	501.508	3.102	2448107	1.89	500	100.3	79.5	120.5	
Mo	95	1	He	51.639	51.639	2.836	136426	0.22	50	103.3	29.5	140.5	
Ag	107	1	He	49.212	49.212	2.801	448173	0.91	50	98.4	59.5	114.5	
Cd	111	1	He	475.790	475.790	2.006	724517	0.96	500	95.2	73.5	110.5	
Sn	118	1	He	558.568	558.568	2.642	1867209	2.02	500	111.7	79.5	120.5	
Sb	123	1	He	50.703	50.703	0.872	180435	0.26	50	101.4	67.5	113.4	
Ba	137	1	He	512.752	512.752	1.392	718306	0.53	500	102.6	69.5	110.5	
W	182	1	He	47.113	47.113	1.695	522524	0.98	50	94.2	74.6	125.4	
Tl	205	1	He	117.905	117.905	1.031	2924891	0.06	125	94.3	70.6	110.5	
Pb	208	1	He	479.461	479.461	0.991	15650206	0.60	500	95.9	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1489093	1.57	1803797	82.55	30	120	
Sc	45	1	He	503973	1.34	574766	87.68	30	120	
Sc	45	2	NoGas	3904705	1.44	4296857	90.87	30	120	
Rh	103	1	He	1473260	2.93	1652712	89.14	30	120	
In	115	1	He	763377	0.90	852389	89.56	30	120	
Tb	159	1	He	2407021	0.69	2425956	99.22	30	120	
Ho	165	1	He	2479712	1.71	2452680	101.10	30	120	
Bi	209	1	He	1802017	1.07	1810473	99.53	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-1-d@2
Data File Name	146SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:46:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.060	3.060	2.17	14343	0.02	10000	
B	11	45	2	NoGas	18.400	18.400	0.56	67330	0.03	300	
Na	23	45	1	He	121.408	121.408	1.14	206555	0.06	500000	
Mg	24	45	1	He	7393.597	7393.597	0.95	6048255	0.12	500000	
Al	27	45	1	He	39097.121	39097.121	0.77	16630609	0.24	200000	
K	39	45	1	He	3254.573	3254.573	1.41	2150402	0.15	500000	
Ca	44	45	1	He	619.993	619.993	2.48	21757	2.85	500000	
Ti	47	45	1	He	322.651	322.651	1.36	65758	0.49	2500	
V	51	45	1	He	109.797	109.797	0.73	572003	0.02	10000	
Cr	52	45	1	He	93.403	93.403	0.42	599519	0.02	10000	
Mn	55	45	1	He	7886.754	7886.754	0.80	35644560	0.02	10000	
Fe	56	45	1	He	193623.303	193623.303	0.87	1132755191	0.02	200000	
Co	59	103	1	He	58.043	58.043	0.57	524675	0.01	10000	
Ni	60	103	1	He	87.116	87.116	0.37	200317	0.04	10000	
Cu	63	103	1	He	56.993	56.993	0.88	351492	0.02	10000	
Zn	66	103	1	He	198.387	198.387	0.63	248026	0.08	10000	
As	75	103	1	He	73.410	73.410	0.70	58093	0.13	10000	
Se	78	103	1	He	5.192	5.192	4.42	365	1.42	10000	
Sr	88	103	1	He	22.704	22.704	1.05	106733	0.02	10000	
Mo	95	103	1	He	7.767	7.767	0.07	20246	0.04	2000	
Ag	107	103	1	He	0.095	0.095	3.12	857	0.01	300	
Cd	111	103	1	He	0.602	0.602	8.19	1609	0.04	4000	
Sn	118	115	1	He	18.076	18.076	1.90	61609	0.03	2000	
Sb	123	115	1	He	0.748	0.748	1.78	3478	0.02	300	
Ba	137	115	1	He	314.440	314.440	0.38	443587	0.07	10000	
W	182	165	1	He	0.714	0.714	14.42	10656	0.01	2500	
Tl	205	209	1	He	0.837	0.837	2.95	21004	0.00	5000	
Pb	208	209	1	He	68.699	68.699	0.36	2226032	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1497607	2.15	1803797	83.03	30	120	
Sc	45	1	He	539209	1.76	574766	93.81	30	120	
Sc	45	2	NoGas	4125599	1.33	4296857	96.01	30	120	
Rh	103	1	He	1416499	0.69	1652712	85.71	30	120	
In	115	1	He	768669	0.29	852389	90.18	30	120	
Tb	159	1	He	2438038	2.56	2425956	100.50	30	120	
Ho	165	1	He	2494561	0.84	2452680	101.71	30	120	
Bi	209	1	He	1788168	0.70	1810473	98.77	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49171-a-1-d@10
Data File Name	147SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:50:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.623	0.623	2.96	2826	0.02	10000	
B	11	45	2	NoGas	9.176	9.176	2.74	34447	0.03	300	
Na	23	45	1	He	31.918	31.918	4.84	72479	0.04	500000	
Mg	24	45	1	He	1555.011	1555.011	4.29	1190492	0.13	500000	
Al	27	45	1	He	8281.975	8281.975	3.91	3295998	0.25	200000	
K	39	45	1	He	660.173	660.173	2.82	453474	0.15	500000	
Ca	44	45	1	He	123.468	123.468	4.50	4457	2.77	500000	
Ti	47	45	1	He	67.930	67.930	4.49	12954	0.52	2500	
V	51	45	1	He	23.012	23.012	3.30	112329	0.02	10000	
Cr	52	45	1	He	19.676	19.676	2.91	120238	0.02	10000	
Mn	55	45	1	He	1666.115	1666.115	3.20	7044336	0.02	10000	
Fe	56	45	1	He	41676.731	41676.731	3.08	228120009	0.02	200000	
Co	59	103	1	He	11.482	11.482	1.02	104003	0.01	10000	
Ni	60	103	1	He	17.303	17.303	1.10	39919	0.04	10000	
Cu	63	103	1	He	11.469	11.469	0.66	72555	0.02	10000	
Zn	66	103	1	He	41.101	41.101	0.73	52046	0.08	10000	
As	75	103	1	He	14.723	14.723	1.15	11805	0.12	10000	
Se	78	103	1	He	1.123	1.123	2.84	99	1.13	10000	
Sr	88	103	1	He	4.465	4.465	1.58	21123	0.02	10000	
Mo	95	103	1	He	1.316	1.316	1.02	3933	0.03	2000	
Ag	107	103	1	He	0.015	0.015	36.06	156	0.01	300	
Cd	111	103	1	He	0.141	0.141	28.09	937	0.02	4000	
Sn	118	115	1	He	3.314	3.314	5.24	12072	0.03	2000	
Sb	123	115	1	He	0.029	0.029	85.08	924	0.00	300	
Ba	137	115	1	He	62.978	62.978	1.10	89880	0.07	10000	
W	182	165	1	He	0.112	0.112	17.04	3908	0.00	2500	
Tl	205	209	1	He	0.166	0.166	3.73	4607	0.00	5000	
Pb	208	209	1	He	13.520	13.520	0.84	450542	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1447831	0.45	1803797	80.27	30	120	
Sc	45	1	He	504705	2.96	574766	87.81	30	120	
Sc	45	2	NoGas	3904967	0.50	4296857	90.88	30	120	
Rh	103	1	He	1418832	0.55	1652712	85.85	30	120	
In	115	1	He	777547	0.16	852389	91.22	30	120	
Tb	159	1	He	2405165	0.59	2425956	99.14	30	120	
Ho	165	1	He	2454504	1.18	2452680	100.07	30	120	
Bi	209	1	He	1836129	1.06	1810473	101.42	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49171-a-1-d@2
Data File Name	148SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:53:52-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1110.767	1110.767	1.79	4939763	0.02	10000	
B	11	45	2	NoGas	119.174	119.174	1.35	396476	0.03	300	
Na	23	45	1	He	9868.949	9868.949	1.67	13448211	0.07	500000	
Mg	24	45	1	He	16999.070	16999.070	1.52	13106090	0.13	500000	
Al	27	45	1	He	46700.653	46700.653	2.79	18722535	0.25	200000	
K	39	45	1	He	13123.286	13123.286	2.52	7999242	0.16	500000	
Ca	44	45	1	He	9646.112	9646.112	1.97	311722	3.09	500000	
Ti	47	45	1	He	410.821	410.821	1.11	78932	0.52	2500	
V	51	45	1	He	1138.722	1138.722	2.67	5589216	0.02	10000	
Cr	52	45	1	He	1109.367	1109.367	3.31	6681566	0.02	10000	
Mn	55	45	1	He	8654.903	8654.903	1.40	36870552	0.02	10000	
Fe	56	45	1	He	199915.534	199915.534	2.07	1102401343	0.02	200000	
Co	59	103	1	He	1080.915	1080.915	0.83	9194584	0.01	10000	
Ni	60	103	1	He	1131.710	1131.710	0.83	2448123	0.05	10000	
Cu	63	103	1	He	1091.632	1091.632	1.70	6299017	0.02	10000	
Zn	66	103	1	He	1187.218	1187.218	1.96	1393359	0.09	10000	
As	75	103	1	He	1070.692	1070.692	1.00	795198	0.13	10000	
Se	78	103	1	He	986.079	986.079	0.70	60642	1.63	10000	
Sr	88	103	1	He	1137.063	1137.063	0.97	5024760	0.02	10000	
Mo	95	103	1	He	125.776	125.776	0.68	300040	0.04	2000	
Ag	107	103	1	He	109.237	109.237	0.60	900575	0.01	300	
Cd	111	103	1	He	1097.754	1097.754	2.64	1512078	0.07	4000	
Sn	118	115	1	He	1212.764	1212.764	0.55	3761767	0.03	2000	
Sb	123	115	1	He	113.455	113.455	1.02	373782	0.03	300	
Ba	137	115	1	He	1558.586	1558.586	1.54	2026333	0.08	10000	
W	182	165	1	He	99.960	99.960	1.20	1081641	0.01	2500	
Tl	205	209	1	He	272.197	272.197	1.83	5914638	0.00	5000	
Pb	208	209	1	He	1198.967	1198.967	1.44	34282838	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1420627	0.28	1803797	78.76	30	120	
Sc	45	1	He	508308	1.85	574766	88.44	30	120	
Sc	45	2	NoGas	4035111	0.11	4296857	93.91	30	120	
Rh	103	1	He	1333082	0.73	1652712	80.66	30	120	
In	115	1	He	708415	0.46	852389	83.11	30	120	
Tb	159	1	He	2352986	0.08	2425956	96.99	30	120	
Ho	165	1	He	2425697	1.31	2452680	98.90	30	120	
Bi	209	1	He	1578808	1.93	1810473	87.20	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-1-e du@2
Data File Name	149SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:57:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.338	3.338	1.49	15251	0.02	10000	
B	11	45	2	NoGas	19.038	19.038	0.84	70478	0.03	300	
Na	23	45	1	He	127.362	127.362	2.72	210064	0.06	500000	
Mg	24	45	1	He	7797.777	7797.777	2.33	6227798	0.13	500000	
Al	27	45	1	He	43650.943	43650.943	1.43	18131508	0.24	200000	
K	39	45	1	He	3788.002	3788.002	2.25	2434348	0.16	500000	
Ca	44	45	1	He	667.941	667.941	1.30	22852	2.92	500000	
Ti	47	45	1	He	304.584	304.584	1.65	60616	0.50	2500	
V	51	45	1	He	115.724	115.724	1.77	588653	0.02	10000	
Cr	52	45	1	He	101.627	101.627	1.91	636657	0.02	10000	
Mn	55	45	1	He	6413.884	6413.884	1.48	28304731	0.02	10000	
Fe	56	45	1	He	191143.318	191143.318	2.10	1091862001	0.02	200000	
Co	59	103	1	He	50.903	50.903	1.10	445079	0.01	10000	
Ni	60	103	1	He	87.821	87.821	0.87	195338	0.04	10000	
Cu	63	103	1	He	57.737	57.737	0.44	344411	0.02	10000	
Zn	66	103	1	He	204.667	204.667	1.23	247467	0.08	10000	
As	75	103	1	He	71.574	71.574	0.56	54790	0.13	10000	
Se	78	103	1	He	5.873	5.873	8.18	396	1.48	10000	
Sr	88	103	1	He	25.274	25.274	0.52	114917	0.02	10000	
Mo	95	103	1	He	8.451	8.451	4.64	21253	0.04	2000	
Ag	107	103	1	He	0.100	0.100	8.90	870	0.01	300	
Cd	111	103	1	He	0.708	0.708	5.85	1707	0.04	4000	
Sn	118	115	1	He	18.452	18.452	2.71	61270	0.03	2000	
Sb	123	115	1	He	0.974	0.974	3.47	4176	0.02	300	
Ba	137	115	1	He	313.060	313.060	0.26	430404	0.07	10000	
W	182	165	1	He	1.555	1.555	22.00	19709	0.01	2500	
Tl	205	209	1	He	1.135	1.135	9.97	27010	0.00	5000	
Pb	208	209	1	He	71.333	71.333	1.94	2206227	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1459037	1.36	1803797	80.89	30	120	
Sc	45	1	He	526534	1.47	574766	91.61	30	120	
Sc	45	2	NoGas	4185602	1.15	4296857	97.41	30	120	
Rh	103	1	He	1370222	1.03	1652712	82.91	30	120	
In	115	1	He	749111	0.40	852389	87.88	30	120	
Tb	159	1	He	2407056	0.84	2425956	99.22	30	120	
Ho	165	1	He	2463407	1.24	2452680	100.44	30	120	
Bi	209	1	He	1707271	2.11	1810473	94.30	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-1-f ms@2
Data File Name	150SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:01:18-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	51.285	51.285	1.53	222658	0.02	10000	
B	11	45	2	NoGas	53.938	53.938	1.14	181053	0.03	300	
Na	23	45	1	He	4563.767	4563.767	1.53	6297244	0.07	500000	
Mg	24	45	1	He	12261.050	12261.050	2.14	9547637	0.13	500000	
Al	27	45	1	He	48951.408	48951.408	0.85	19824263	0.25	200000	
K	39	45	1	He	7333.256	7333.256	1.38	4541351	0.16	500000	
Ca	44	45	1	He	4985.415	4985.415	0.89	162979	3.06	500000	
Ti	47	45	1	He	409.332	409.332	0.86	79431	0.52	2500	
V	51	45	1	He	167.737	167.737	1.54	831789	0.02	10000	
Cr	52	45	1	He	141.865	141.865	1.27	865469	0.02	10000	
Mn	55	45	1	He	7666.386	7666.386	0.11	32988613	0.02	10000	
Fe	56	45	1	He	204035.068	204035.068	0.87	1136469075	0.02	200000	>LDR
Co	59	103	1	He	105.135	105.135	0.23	919739	0.01	10000	
Ni	60	103	1	He	130.042	130.042	1.04	289366	0.04	10000	
Cu	63	103	1	He	101.404	101.404	0.56	603662	0.02	10000	
Zn	66	103	1	He	249.323	249.323	0.59	301498	0.08	10000	
As	75	103	1	He	120.511	120.511	0.25	92193	0.13	10000	
Se	78	103	1	He	47.132	47.132	1.22	3004	1.57	10000	
Sr	88	103	1	He	72.062	72.062	0.27	327605	0.02	10000	
Mo	95	103	1	He	58.155	58.155	0.27	142978	0.04	2000	
Ag	107	103	1	He	47.562	47.562	0.53	403273	0.01	300	
Cd	111	103	1	He	47.641	47.641	1.11	68171	0.07	4000	
Sn	118	115	1	He	57.476	57.476	1.00	187789	0.03	2000	
Sb	123	115	1	He	16.383	16.383	1.20	57304	0.03	300	
Ba	137	115	1	He	363.683	363.683	1.20	496144	0.07	10000	
W	182	165	1	He	32.760	32.760	2.02	361592	0.01	2500	
Tl	205	209	1	He	41.972	41.972	1.14	1008183	0.00	5000	
Pb	208	209	1	He	121.500	121.500	1.94	3839589	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1387034	2.00	1803797	76.90	30	120	
Sc	45	1	He	513341	0.97	574766	89.31	30	120	
Sc	45	2	NoGas	4004541	1.99	4296857	93.20	30	120	
Rh	103	1	He	1370951	0.35	1652712	82.95	30	120	
In	115	1	He	743328	0.28	852389	87.21	30	120	
Tb	159	1	He	2401698	1.35	2425956	99.00	30	120	
Ho	165	1	He	2461879	0.44	2452680	100.38	30	120	
Bi	209	1	He	1744499	1.49	1810473	96.36	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-2-b@2
Data File Name	151SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:05:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.425	3.425	1.30	15136	0.02	10000	
B	11	45	2	NoGas	20.684	20.684	1.61	74940	0.03	300	
Na	23	45	1	He	166.010	166.010	1.49	262935	0.06	500000	
Mg	24	45	1	He	11633.430	11633.430	0.25	9236410	0.13	500000	
Al	27	45	1	He	59081.083	59081.083	0.81	24392191	0.24	200000	
K	39	45	1	He	5204.087	5204.087	2.04	3302052	0.16	500000	
Ca	44	45	1	He	906.704	906.704	2.24	30643	2.96	500000	
Ti	47	45	1	He	344.747	344.747	1.62	68196	0.51	2500	
V	51	45	1	He	119.352	119.352	0.79	603482	0.02	10000	
Cr	52	45	1	He	104.174	104.174	1.44	648625	0.02	10000	
Mn	55	45	1	He	3181.564	3181.564	1.89	13955437	0.02	10000	
Fe	56	45	1	He	176164.622	176164.622	1.33	1000299054	0.02	200000	
Co	59	103	1	He	48.291	48.291	0.52	426745	0.01	10000	
Ni	60	103	1	He	101.890	101.890	0.54	229025	0.04	10000	
Cu	63	103	1	He	87.957	87.957	0.17	529178	0.02	10000	
Zn	66	103	1	He	255.635	255.635	0.15	312228	0.08	10000	
As	75	103	1	He	78.379	78.379	0.26	60624	0.13	10000	
Se	78	103	1	He	6.442	6.442	5.87	436	1.48	10000	
Sr	88	103	1	He	36.576	36.576	0.86	168012	0.02	10000	
Mo	95	103	1	He	8.793	8.793	0.32	22331	0.04	2000	
Ag	107	103	1	He	0.087	0.087	4.13	774	0.01	300	
Cd	111	103	1	He	0.753	0.753	3.18	1790	0.04	4000	
Sn	118	115	1	He	17.497	17.497	2.62	58304	0.03	2000	
Sb	123	115	1	He	0.915	0.915	2.90	3981	0.02	300	
Ba	137	115	1	He	387.123	387.123	0.30	533691	0.07	10000	
W	182	165	1	He	0.688	0.688	12.96	10471	0.01	2500	
Tl	205	209	1	He	1.039	1.039	0.31	25567	0.00	5000	
Pb	208	209	1	He	89.585	89.585	1.67	2857317	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1411718	1.81	1803797	78.26	30	120	
Sc	45	1	He	523339	0.99	574766	91.05	30	120	
Sc	45	2	NoGas	4122314	0.74	4296857	95.94	30	120	
Rh	103	1	He	1384783	0.29	1652712	83.79	30	120	
In	115	1	He	751176	0.30	852389	88.13	30	120	
Tb	159	1	He	2458106	1.23	2425956	101.33	30	120	
Ho	165	1	He	2519458	0.61	2452680	102.72	30	120	
Bi	209	1	He	1760655	1.89	1810473	97.25	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-4-b@2
Data File Name	152SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:08:54-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.885	2.885	3.40	12653	0.02	10000	
B	11	45	2	NoGas	62.968	62.968	1.16	207552	0.03	300	
Na	23	45	1	He	1804.266	1804.266	2.15	2462404	0.07	500000	
Mg	24	45	1	He	12413.228	12413.228	0.88	9492095	0.13	500000	
Al	27	45	1	He	44862.271	44862.271	0.60	17839933	0.25	200000	
K	39	45	1	He	16499.826	16499.826	1.19	9961888	0.17	500000	
Ca	44	45	1	He	133.747	133.747	25.27	4779	2.80	500000	
Ti	47	45	1	He	397.708	397.708	0.18	75782	0.52	2500	
V	51	45	1	He	79.346	79.346	1.94	386482	0.02	10000	
Cr	52	45	1	He	81.609	81.609	0.35	490012	0.02	10000	
Mn	55	45	1	He	6276.349	6276.349	0.99	26517594	0.02	10000	
Fe	56	45	1	He	112422.379	112422.379	0.96	614903069	0.02	200000	
Co	59	103	1	He	42.601	42.601	0.69	371283	0.01	10000	
Ni	60	103	1	He	106.250	106.250	0.37	235531	0.05	10000	
Cu	63	103	1	He	95.820	95.820	0.20	568344	0.02	10000	
Zn	66	103	1	He	241.121	241.121	0.82	290474	0.08	10000	
As	75	103	1	He	200.770	200.770	0.22	152894	0.13	10000	
Se	78	103	1	He	3.755	3.755	3.57	261	1.44	10000	
Sr	88	103	1	He	2336.345	2336.345	0.63	10576956	0.02	10000	
Mo	95	103	1	He	672.381	672.381	0.43	1640651	0.04	2000	
Ag	107	103	1	He	0.082	0.082	11.67	716	0.01	300	
Cd	111	103	1	He	0.546	0.546	9.90	1472	0.04	4000	
Sn	118	115	1	He	17.020	17.020	3.09	55818	0.03	2000	
Sb	123	115	1	He	0.410	0.410	4.46	2186	0.02	300	
Ba	137	115	1	He	339.309	339.309	0.45	460267	0.07	10000	
W	182	165	1	He	11.235	11.235	1.95	124575	0.01	2500	
Tl	205	209	1	He	0.575	0.575	1.82	14103	0.00	5000	
Pb	208	209	1	He	403.796	403.796	2.49	12670338	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1400460	0.97	1803797	77.64	30	120	
Sc	45	1	He	504055	0.70	574766	87.70	30	120	
Sc	45	2	NoGas	3949519	1.59	4296857	91.92	30	120	
Rh	103	1	He	1365683	0.34	1652712	82.63	30	120	
In	115	1	He	739114	0.43	852389	86.71	30	120	
Tb	159	1	He	2366157	0.47	2425956	97.54	30	120	
Ho	165	1	He	2438442	1.07	2452680	99.42	30	120	
Bi	209	1	He	1732691	1.91	1810473	95.70	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	153_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:12:39-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.286	0.842	209416	0.53	50	94.6	89.5	110.5	
B	11	45	2	NoGas	50.892	1.149	164509	0.89	50	101.8	89.5	110.5	
Na	23	45	1	He	25530.690	2.179	33417129	0.81	25000	102.1	89.5	110.5	
Mg	24	45	1	He	25411.837	0.818	18847152	1.34	25000	101.6	89.5	110.5	
Al	27	45	1	He	251.070	1.353	97466	0.89	250	100.4	89.5	110.5	
K	39	45	1	He	26173.217	2.630	15290331	0.80	25000	104.7	89.5	110.5	
Ca	44	45	1	He	25412.811	2.323	789077	0.60	25000	101.7	89.5	110.5	
Ti	47	45	1	He	52.106	3.527	9627	1.47	50	104.2	89.5	110.5	
V	51	45	1	He	52.296	1.233	247148	1.22	50	104.6	89.5	110.5	
Cr	52	45	1	He	52.019	1.472	303855	0.72	50	104.0	89.5	110.5	
Mn	55	45	1	He	261.140	1.257	1070246	0.90	250	104.5	89.5	110.5	
Fe	56	45	1	He	13253.887	1.672	70307191	0.46	12500	106.0	89.5	110.5	
Co	59	103	1	He	47.367	0.849	426282	0.95	50	94.7	89.5	110.5	
Ni	60	103	1	He	47.384	0.817	108513	0.89	50	94.8	89.5	110.5	
Cu	63	103	1	He	47.449	0.653	291694	0.54	50	94.9	89.5	110.5	
Zn	66	103	1	He	49.169	0.537	61743	0.66	50	98.3	89.5	110.5	
As	75	103	1	He	49.429	0.606	38997	0.46	50	98.9	89.5	110.5	
Se	78	103	1	He	48.683	0.258	3191	0.20	50	97.4	89.5	110.5	
Sr	88	103	1	He	51.753	0.481	242055	0.31	50	103.5	89.5	110.5	
Mo	95	103	1	He	59.063	1.621	149364	1.59	50	118.1	89.5	110.5	CCV Failed
Ag	107	103	1	He	51.806	1.150	451846	1.08	50	103.6	89.5	110.5	
Cd	111	103	1	He	52.944	0.981	77847	0.80	50	105.9	89.5	110.5	
Sn	118	115	1	He	50.499	0.239	173524	0.08	50	101.0	89.5	110.5	
Sb	123	115	1	He	53.108	0.981	193406	0.81	50	106.2	89.5	110.5	
Ba	137	115	1	He	52.677	0.571	75546	0.34	50	105.4	89.5	110.5	
W	182	165	1	He	47.627	2.696	526952	2.23	50	95.3	89.5	110.5	
Tl	205	209	1	He	47.096	0.906	1162368	0.43	50	94.2	89.5	110.5	
Pb	208	209	1	He	48.315	0.881	1569511	0.80	50	96.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1414837	1.36	1803797	78.44	30	120	
Sc	45	1	He	488953	2.15	574766	85.07	30	120	
Sc	45	2	NoGas	3849288	0.63	4296857	89.58	30	120	
Rh	103	1	He	1410251	0.17	1652712	85.33	30	120	
In	115	1	He	781330	0.32	852389	91.66	30	120	
Tb	159	1	He	2406374	0.09	2425956	99.19	30	120	
Ho	165	1	He	2473678	0.50	2452680	100.86	30	120	
Bi	209	1	He	1792403	0.58	1810473	99.00	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	154_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:16:29-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.112	22.8	504	22.6	1	
B	11	45	2	NoGas	6.124	2.0	24825	2.3	20	
Na	23	45	1	He	11.034	12.2	43256	2.7	400	
Mg	24	45	1	He	2.147	33.4	2393	20.7	1000	
Al	27	45	1	He	9.205	6.3	4218	3.7	50	
K	39	45	1	He	10.887	14.1	61921	0.3	1000	
Ca	44	45	1	He	1.652	81.4	545	9.5	1000	
Ti	47	45	1	He	0.073	39.0	14	35.3	20	
V	51	45	1	He	0.036	139.9	393	59.2	2	
Cr	52	45	1	He	-0.048	-47.7	2300	4.4	2	
Mn	55	45	1	He	1.413	3.9	5978	2.5	2	
Fe	56	45	1	He	24.518	15.4	136110	13.2	50	
Co	59	103	1	He	0.024	25.6	279	21.7	1	
Ni	60	103	1	He	0.016	76.8	123	24.0	2	
Cu	63	103	1	He	-0.150	-9.4	1265	6.6	2	
Zn	66	103	1	He	0.436	13.8	1325	6.6	20	
As	75	103	1	He	0.028	71.8	200	9.2	2	
Se	78	103	1	He	0.173	69.5	38	20.9	2	
Sr	88	103	1	He	0.044	19.0	341	12.8	10	
Mo	95	103	1	He	1.496	15.1	4568	13.1	2	
Ag	107	103	1	He	0.005	32.4	71	19.0	0.2	
Cd	111	103	1	He	0.042	20.7	823	0.8	0.2	
Sn	118	115	1	He	0.200	31.0	1522	13.7	10	
Sb	123	115	1	He	0.062	50.6	1078	10.2	1	
Ba	137	115	1	He	0.040	42.7	72	35.9	5	
W	182	165	1	He	0.919	13.8	12761	9.9	10	
Tl	205	209	1	He	0.054	16.1	1797	11.9	0.5	
Pb	208	209	1	He	0.053	7.2	2682	5.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1425765	0.59	1803797	79.04	30	120	
Sc	45	1	He	492810	1.71	574766	85.74	30	120	
Sc	45	2	NoGas	3915603	0.87	4296857	91.13	30	120	
Rh	103	1	He	1476997	0.84	1652712	89.37	30	120	
In	115	1	He	804165	0.78	852389	94.34	30	120	
Tb	159	1	He	2382992	1.17	2425956	98.23	30	120	
Ho	165	1	He	2464316	0.99	2452680	100.47	30	120	
Bi	209	1	He	1856986	0.93	1810473	102.57	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-11-b@2
Data File Name	155SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:20:21-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.487	2.487	6.45	10800	0.02	10000	
B	11	45	2	NoGas	18.078	18.078	2.73	63435	0.03	300	
Na	23	45	1	He	312.853	312.853	1.94	458972	0.07	500000	
Mg	24	45	1	He	8600.712	8600.712	1.70	6689326	0.13	500000	
Al	27	45	1	He	55390.135	55390.135	3.27	22397015	0.25	200000	
K	39	45	1	He	3590.297	3590.297	2.22	2249582	0.16	500000	
Ca	44	45	1	He	5080.485	5080.485	1.85	165856	3.06	500000	
Ti	47	45	1	He	602.527	602.527	2.29	116756	0.52	2500	
V	51	45	1	He	106.100	106.100	3.05	525466	0.02	10000	
Cr	52	45	1	He	82.952	82.952	2.53	506475	0.02	10000	
Mn	55	45	1	He	4407.583	4407.583	2.99	18936670	0.02	10000	
Fe	56	45	1	He	84230.347	84230.347	2.46	468505741	0.02	200000	
Co	59	103	1	He	39.237	39.237	0.72	344693	0.01	10000	
Ni	60	103	1	He	104.275	104.275	0.54	233001	0.04	10000	
Cu	63	103	1	He	47.889	47.889	0.60	287352	0.02	10000	
Zn	66	103	1	He	243.420	243.420	0.70	295579	0.08	10000	
As	75	103	1	He	77.284	77.284	0.31	59426	0.13	10000	
Se	78	103	1	He	5.136	5.136	3.72	351	1.46	10000	
Sr	88	103	1	He	78.935	78.935	1.81	360305	0.02	10000	
Mo	95	103	1	He	8.879	8.879	0.79	22411	0.04	2000	
Ag	107	103	1	He	0.147	0.147	3.15	1278	0.01	300	
Cd	111	103	1	He	0.676	0.676	10.54	1668	0.04	4000	
Sn	118	115	1	He	16.812	16.812	0.40	56268	0.03	2000	
Sb	123	115	1	He	0.573	0.573	7.58	2799	0.02	300	
Ba	137	115	1	He	395.576	395.576	0.30	547477	0.07	10000	
W	182	165	1	He	0.571	0.571	4.02	8947	0.01	2500	
Tl	205	209	1	He	0.912	0.912	0.89	22499	0.00	5000	
Pb	208	209	1	He	48.339	48.339	1.35	1543359	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1387539	2.84	1803797	76.92	30	120	
Sc	45	1	He	512778	2.24	574766	89.21	30	120	
Sc	45	2	NoGas	3950202	0.30	4296857	91.93	30	120	
Rh	103	1	He	1376598	0.54	1652712	83.29	30	120	
In	115	1	He	754109	0.18	852389	88.47	30	120	
Tb	159	1	He	2389935	1.26	2425956	98.52	30	120	
Ho	165	1	He	2460509	1.41	2452680	100.32	30	120	
Bi	209	1	He	1761828	1.18	1810473	97.31	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-13-b@2
Data File Name	156SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:24:09-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.047	2.047	4.87	8936	0.02	10000	
B	11	45	2	NoGas	13.639	13.639	1.31	48761	0.03	300	
Na	23	45	1	He	86.286	86.286	1.25	143548	0.06	500000	
Mg	24	45	1	He	5045.036	5045.036	1.21	3800046	0.13	500000	
Al	27	45	1	He	32635.648	32635.648	0.88	12782406	0.26	200000	
K	39	45	1	He	2556.891	2556.891	0.29	1567674	0.16	500000	
Ca	44	45	1	He	875.000	875.000	1.25	28073	3.12	500000	
Ti	47	45	1	He	355.348	355.348	1.83	66688	0.53	2500	
V	51	45	1	He	66.597	66.597	0.70	319562	0.02	10000	
Cr	52	45	1	He	61.400	61.400	0.55	363752	0.02	10000	
Mn	55	45	1	He	1778.231	1778.231	1.02	7399852	0.02	10000	
Fe	56	45	1	He	83373.230	83373.230	0.99	449121982	0.02	200000	
Co	59	103	1	He	36.484	36.484	0.22	321629	0.01	10000	
Ni	60	103	1	He	74.577	74.577	0.68	167242	0.04	10000	
Cu	63	103	1	He	40.526	40.526	0.48	244341	0.02	10000	
Zn	66	103	1	He	250.410	250.410	0.71	305109	0.08	10000	
As	75	103	1	He	98.629	98.629	0.74	76056	0.13	10000	
Se	78	103	1	He	3.409	3.409	5.40	242	1.41	10000	
Sr	88	103	1	He	16.387	16.387	0.84	75154	0.02	10000	
Mo	95	103	1	He	7.891	7.891	1.07	20052	0.04	2000	
Ag	107	103	1	He	0.094	0.094	3.74	827	0.01	300	
Cd	111	103	1	He	0.654	0.654	11.85	1643	0.04	4000	
Sn	118	115	1	He	14.589	14.589	1.42	48541	0.03	2000	
Sb	123	115	1	He	0.376	0.376	6.07	2093	0.02	300	
Ba	137	115	1	He	223.322	223.322	1.00	306618	0.07	10000	
W	182	165	1	He	0.339	0.339	7.82	6346	0.01	2500	
Tl	205	209	1	He	0.607	0.607	2.42	15064	0.00	5000	
Pb	208	209	1	He	46.188	46.188	0.80	1471121	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1393754	1.71	1803797	77.27	30	120	
Sc	45	1	He	496458	0.73	574766	86.38	30	120	
Sc	45	2	NoGas	3916784	0.22	4296857	91.15	30	120	
Rh	103	1	He	1381395	0.34	1652712	83.58	30	120	
In	115	1	He	748107	0.22	852389	87.77	30	120	
Tb	159	1	He	2365877	0.27	2425956	97.52	30	120	
Ho	165	1	He	2435760	0.98	2452680	99.31	30	120	
Bi	209	1	He	1757398	0.71	1810473	97.07	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-14-b@2
Data File Name	157SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:27:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.408	2.408	3.59	10474	0.02	10000	
B	11	45	2	NoGas	18.935	18.935	1.84	65868	0.03	300	
Na	23	45	1	He	158.411	158.411	3.47	243599	0.07	500000	
Mg	24	45	1	He	8381.278	8381.278	2.68	6425368	0.13	500000	
Al	27	45	1	He	41445.460	41445.460	0.30	16525274	0.25	200000	
K	39	45	1	He	4097.537	4097.537	0.54	2523149	0.16	500000	
Ca	44	45	1	He	1116.676	1116.676	1.61	36336	3.07	500000	
Ti	47	45	1	He	499.482	499.482	0.50	95421	0.52	2500	
V	51	45	1	He	92.653	92.653	0.72	452477	0.02	10000	
Cr	52	45	1	He	80.343	80.343	0.49	483722	0.02	10000	
Mn	55	45	1	He	3055.772	3055.772	1.57	12943751	0.02	10000	
Fe	56	45	1	He	108295.817	108295.817	0.48	593899870	0.02	200000	
Co	59	103	1	He	116.726	116.726	0.38	1017910	0.01	10000	
Ni	60	103	1	He	135.371	135.371	0.29	300270	0.05	10000	
Cu	63	103	1	He	61.251	61.251	0.47	364296	0.02	10000	
Zn	66	103	1	He	613.970	613.970	0.55	739086	0.08	10000	
As	75	103	1	He	499.570	499.570	0.15	380463	0.13	10000	
Se	78	103	1	He	4.354	4.354	5.15	299	1.46	10000	
Sr	88	103	1	He	54.178	54.178	0.56	245554	0.02	10000	
Mo	95	103	1	He	9.940	9.940	0.81	24838	0.04	2000	
Ag	107	103	1	He	0.291	0.291	3.59	2488	0.01	300	
Cd	111	103	1	He	1.311	1.311	5.51	2554	0.05	4000	
Sn	118	115	1	He	16.646	16.646	1.66	55030	0.03	2000	
Sb	123	115	1	He	0.887	0.887	7.08	3850	0.02	300	
Ba	137	115	1	He	308.007	308.007	2.08	420992	0.07	10000	
W	182	165	1	He	0.340	0.340	5.65	6409	0.01	2500	
Tl	205	209	1	He	1.200	1.200	2.03	29183	0.00	5000	
Pb	208	209	1	He	75.112	75.112	2.33	2373756	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1389527	1.77	1803797	77.03	30	120	
Sc	45	1	He	505384	1.12	574766	87.93	30	120	
Sc	45	2	NoGas	3931376	1.06	4296857	91.49	30	120	
Rh	103	1	He	1366629	0.26	1652712	82.69	30	120	
In	115	1	He	744866	1.20	852389	87.39	30	120	
Tb	159	1	He	2398971	1.17	2425956	98.89	30	120	
Ho	165	1	He	2458853	0.52	2452680	100.25	30	120	
Bi	209	1	He	1744766	2.62	1810473	96.37	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-15-b@2
Data File Name	158SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:31:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.721	3.721	4.02	16178	0.02	10000	
B	11	45	2	NoGas	18.190	18.190	2.28	65564	0.03	300	
Na	23	45	1	He	179.768	179.768	1.16	277774	0.06	500000	
Mg	24	45	1	He	15200.870	15200.870	1.31	11878510	0.13	500000	
Al	27	45	1	He	67676.624	67676.624	1.55	27502185	0.25	200000	
K	39	45	1	He	4911.555	4911.555	2.29	3070728	0.16	500000	
Ca	44	45	1	He	1865.256	1865.256	2.11	61507	3.03	500000	
Ti	47	45	1	He	699.757	699.757	1.27	136255	0.51	2500	
V	51	45	1	He	136.041	136.041	1.24	677056	0.02	10000	
Cr	52	45	1	He	121.859	121.859	0.70	746448	0.02	10000	
Mn	55	45	1	He	2310.856	2310.856	0.86	9978121	0.02	10000	
Fe	56	45	1	He	163533.524	163533.524	0.88	914071928	0.02	200000	
Co	59	103	1	He	57.061	57.061	0.13	493919	0.01	10000	
Ni	60	103	1	He	129.237	129.237	0.54	284528	0.05	10000	
Cu	63	103	1	He	135.028	135.028	0.27	794651	0.02	10000	
Zn	66	103	1	He	415.272	415.272	0.10	496388	0.08	10000	
As	75	103	1	He	97.694	97.694	0.63	73977	0.13	10000	
Se	78	103	1	He	6.427	6.427	3.55	426	1.51	10000	
Sr	88	103	1	He	26.798	26.798	0.70	120614	0.02	10000	
Mo	95	103	1	He	10.895	10.895	0.60	26968	0.04	2000	
Ag	107	103	1	He	0.133	0.133	5.04	1143	0.01	300	
Cd	111	103	1	He	1.104	1.104	4.01	2244	0.05	4000	
Sn	118	115	1	He	16.396	16.396	3.27	53834	0.03	2000	
Sb	123	115	1	He	0.949	0.949	2.76	4037	0.02	300	
Ba	137	115	1	He	370.487	370.487	0.66	502938	0.07	10000	
W	182	165	1	He	0.296	0.296	4.35	5961	0.00	2500	
Tl	205	209	1	He	1.231	1.231	2.09	29433	0.00	5000	
Pb	208	209	1	He	111.203	111.203	1.96	3454186	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1389087	2.02	1803797	77.01	30	120	
Sc	45	1	He	515157	1.40	574766	89.63	30	120	
Sc	45	2	NoGas	4059769	0.60	4296857	94.48	30	120	
Rh	103	1	He	1356434	0.33	1652712	82.07	30	120	
In	115	1	He	739697	0.93	852389	86.78	30	120	
Tb	159	1	He	2385858	0.96	2425956	98.35	30	120	
Ho	165	1	He	2469305	0.90	2452680	100.68	30	120	
Bi	209	1	He	1714841	1.96	1810473	94.72	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-16-b@2
Data File Name	159SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:35:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.974	2.974	5.02	12634	0.02	10000	
B	11	45	2	NoGas	18.615	18.615	1.89	64029	0.03	300	
Na	23	45	1	He	207.807	207.807	1.11	308853	0.07	500000	
Mg	24	45	1	He	13254.839	13254.839	1.37	10108976	0.13	500000	
Al	27	45	1	He	46157.819	46157.819	1.86	18305893	0.25	200000	
K	39	45	1	He	4922.202	4922.202	0.86	3003864	0.16	500000	
Ca	44	45	1	He	3344.483	3344.483	1.31	107241	3.12	500000	
Ti	47	45	1	He	427.974	427.974	1.37	81331	0.53	2500	
V	51	45	1	He	92.013	92.013	1.37	446984	0.02	10000	
Cr	52	45	1	He	80.669	80.669	1.13	483125	0.02	10000	
Mn	55	45	1	He	2830.060	2830.060	0.93	11926017	0.02	10000	
Fe	56	45	1	He	121515.946	121515.946	0.77	662904205	0.02	200000	
Co	59	103	1	He	47.495	47.495	0.52	411820	0.01	10000	
Ni	60	103	1	He	104.662	104.662	1.04	230829	0.05	10000	
Cu	63	103	1	He	85.914	85.914	0.27	507225	0.02	10000	
Zn	66	103	1	He	285.432	285.432	0.85	341990	0.08	10000	
As	75	103	1	He	61.117	61.117	0.34	46420	0.13	10000	
Se	78	103	1	He	4.413	4.413	6.57	301	1.47	10000	
Sr	88	103	1	He	31.942	31.942	1.00	143986	0.02	10000	
Mo	95	103	1	He	6.296	6.296	3.37	15851	0.04	2000	
Ag	107	103	1	He	0.102	0.102	2.34	883	0.01	300	
Cd	111	103	1	He	0.651	0.651	8.64	1612	0.04	4000	
Sn	118	115	1	He	16.558	16.558	2.09	54495	0.03	2000	
Sb	123	115	1	He	0.506	0.506	4.46	2521	0.02	300	
Ba	137	115	1	He	327.114	327.114	0.53	445075	0.07	10000	
W	182	165	1	He	0.251	0.251	10.51	5423	0.00	2500	
Tl	205	209	1	He	0.780	0.780	0.81	19100	0.00	5000	
Pb	208	209	1	He	77.044	77.044	0.51	2434023	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1356506	1.77	1803797	75.20	30	120	
Sc	45	1	He	502760	1.11	574766	87.47	30	120	
Sc	45	2	NoGas	3882319	1.36	4296857	90.35	30	120	
Rh	103	1	He	1358767	0.42	1652712	82.21	30	120	
In	115	1	He	741371	0.47	852389	86.98	30	120	
Tb	159	1	He	2410100	0.62	2425956	99.35	30	120	
Ho	165	1	He	2452679	1.16	2452680	100.00	30	120	
Bi	209	1	He	1743536	0.51	1810473	96.30	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-17-b@2
Data File Name	160SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:39:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.917	3.917	0.69	16875	0.02	10000	
B	11	45	2	NoGas	19.158	19.158	2.13	67690	0.03	300	
Na	23	45	1	He	192.233	192.233	0.88	290601	0.07	500000	
Mg	24	45	1	He	13403.669	13403.669	0.57	10320355	0.13	500000	
Al	27	45	1	He	61441.034	61441.034	1.16	24599865	0.25	200000	
K	39	45	1	He	5197.381	5197.381	0.93	3198516	0.16	500000	
Ca	44	45	1	He	4992.634	4992.634	0.68	161370	3.09	500000	
Ti	47	45	1	He	419.259	419.259	1.08	80434	0.52	2500	
V	51	45	1	He	121.488	121.488	1.95	595665	0.02	10000	
Cr	52	45	1	He	92.700	92.700	1.40	560051	0.02	10000	
Mn	55	45	1	He	4285.749	4285.749	2.45	18230390	0.02	10000	
Fe	56	45	1	He	174147.746	174147.746	0.82	959032602	0.02	200000	
Co	59	103	1	He	56.015	56.015	0.40	485344	0.01	10000	
Ni	60	103	1	He	107.166	107.166	1.37	236184	0.05	10000	
Cu	63	103	1	He	96.692	96.692	0.18	570190	0.02	10000	
Zn	66	103	1	He	317.928	317.928	0.39	380573	0.08	10000	
As	75	103	1	He	75.920	75.920	0.15	57583	0.13	10000	
Se	78	103	1	He	6.311	6.311	4.20	420	1.50	10000	
Sr	88	103	1	He	43.300	43.300	0.22	195008	0.02	10000	
Mo	95	103	1	He	8.797	8.797	3.71	21905	0.04	2000	
Ag	107	103	1	He	0.194	0.194	4.11	1658	0.01	300	
Cd	111	103	1	He	1.048	1.048	9.72	2168	0.05	4000	
Sn	118	115	1	He	17.744	17.744	1.09	58204	0.03	2000	
Sb	123	115	1	He	0.539	0.539	9.01	2629	0.02	300	
Ba	137	115	1	He	522.051	522.051	1.00	708632	0.07	10000	
W	182	165	1	He	0.257	0.257	9.78	5460	0.00	2500	
Tl	205	209	1	He	0.920	0.920	1.31	22539	0.00	5000	
Pb	208	209	1	He	82.433	82.433	1.17	2611157	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1375901	1.73	1803797	76.28	30	120	
Sc	45	1	He	507543	1.25	574766	88.30	30	120	
Sc	45	2	NoGas	3996541	0.30	4296857	93.01	30	120	
Rh	103	1	He	1357798	0.43	1652712	82.16	30	120	
In	115	1	He	739630	0.24	852389	86.77	30	120	
Tb	159	1	He	2387688	0.13	2425956	98.42	30	120	
Ho	165	1	He	2439760	0.18	2452680	99.47	30	120	
Bi	209	1	He	1748363	1.56	1810473	96.57	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-18-b@2
Data File Name	161SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:43:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.409	3.409	7.22	14666	0.02	10000	
B	11	45	2	NoGas	16.206	16.206	2.86	56672	0.03	300	
Na	23	45	1	He	195.530	195.530	1.07	290984	0.07	500000	
Mg	24	45	1	He	14468.590	14468.590	1.39	10984688	0.13	500000	
Al	27	45	1	He	58587.212	58587.212	1.29	23130974	0.25	200000	
K	39	45	1	He	4426.885	4426.885	0.71	2694876	0.16	500000	
Ca	44	45	1	He	4085.583	4085.583	0.61	130310	3.14	500000	
Ti	47	45	1	He	453.566	453.566	1.75	85803	0.53	2500	
V	51	45	1	He	109.256	109.256	0.58	528323	0.02	10000	
Cr	52	45	1	He	92.387	92.387	0.78	550430	0.02	10000	
Mn	55	45	1	He	2705.723	2705.723	0.80	11350503	0.02	10000	
Fe	56	45	1	He	140669.109	140669.109	0.26	763910387	0.02	200000	
Co	59	103	1	He	51.336	51.336	0.52	446261	0.01	10000	
Ni	60	103	1	He	112.686	112.686	0.92	249155	0.05	10000	
Cu	63	103	1	He	96.378	96.378	0.41	570202	0.02	10000	
Zn	66	103	1	He	414.502	414.502	0.20	497593	0.08	10000	
As	75	103	1	He	68.972	68.972	0.89	52500	0.13	10000	
Se	78	103	1	He	4.747	4.747	4.42	323	1.47	10000	
Sr	88	103	1	He	29.571	29.571	0.28	133650	0.02	10000	
Mo	95	103	1	He	7.393	7.393	2.54	18559	0.04	2000	
Ag	107	103	1	He	0.149	0.149	5.75	1285	0.01	300	
Cd	111	103	1	He	0.880	0.880	3.07	1938	0.05	4000	
Sn	118	115	1	He	16.254	16.254	1.67	53415	0.03	2000	
Sb	123	115	1	He	0.414	0.414	5.48	2202	0.02	300	
Ba	137	115	1	He	365.707	365.707	0.78	496759	0.07	10000	
W	182	165	1	He	0.259	0.259	4.25	5572	0.00	2500	
Tl	205	209	1	He	0.937	0.937	0.82	22823	0.00	5000	
Pb	208	209	1	He	73.743	73.743	2.43	2323630	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1374355	1.58	1803797	76.19	30	120	
Sc	45	1	He	500473	0.77	574766	87.07	30	120	
Sc	45	2	NoGas	3898311	0.34	4296857	90.72	30	120	
Rh	103	1	He	1362258	0.80	1652712	82.43	30	120	
In	115	1	He	740118	0.44	852389	86.83	30	120	
Tb	159	1	He	2423316	0.54	2425956	99.89	30	120	
Ho	165	1	He	2480377	0.96	2452680	101.13	30	120	
Bi	209	1	He	1739499	2.12	1810473	96.08	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-20-b@2
Data File Name	162SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:47:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.667	3.667	3.79	15366	0.02	10000	
B	11	45	2	NoGas	22.863	22.863	1.53	78722	0.03	300	
Na	23	45	1	He	280.990	280.990	1.97	406818	0.07	500000	
Mg	24	45	1	He	18053.817	18053.817	1.44	13755089	0.13	500000	
Al	27	45	1	He	60907.186	60907.186	1.76	24131828	0.25	200000	
K	39	45	1	He	6796.864	6796.864	1.16	4122126	0.16	500000	
Ca	44	45	1	He	7590.547	7590.547	0.68	242528	3.13	500000	
Ti	47	45	1	He	430.615	430.615	1.46	81760	0.53	2500	
V	51	45	1	He	109.211	109.211	0.91	530004	0.02	10000	
Cr	52	45	1	He	100.981	100.981	0.81	603534	0.02	10000	
Mn	55	45	1	He	2727.788	2727.788	1.39	11483582	0.02	10000	
Fe	56	45	1	He	147497.968	147497.968	0.18	803868697	0.02	200000	
Co	59	103	1	He	65.425	65.425	1.00	564806	0.01	10000	
Ni	60	103	1	He	145.118	145.118	1.19	318636	0.05	10000	
Cu	63	103	1	He	105.715	105.715	1.95	620918	0.02	10000	
Zn	66	103	1	He	331.847	331.847	0.65	395762	0.08	10000	
As	75	103	1	He	68.659	68.659	1.13	51900	0.13	10000	
Se	78	103	1	He	4.930	4.930	2.51	332	1.49	10000	
Sr	88	103	1	He	43.313	43.313	0.35	194356	0.02	10000	
Mo	95	103	1	He	6.638	6.638	2.32	16609	0.04	2000	
Ag	107	103	1	He	0.108	0.108	10.46	933	0.01	300	
Cd	111	103	1	He	0.733	0.733	6.56	1720	0.04	4000	
Sn	118	115	1	He	17.569	17.569	1.02	57610	0.03	2000	
Sb	123	115	1	He	0.480	0.480	2.41	2427	0.02	300	
Ba	137	115	1	He	422.113	422.113	0.67	572706	0.07	10000	
W	182	165	1	He	0.176	0.176	18.88	4649	0.00	2500	
Tl	205	209	1	He	0.988	0.988	0.33	23645	0.00	5000	
Pb	208	209	1	He	67.098	67.098	1.56	2079648	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1338294	0.71	1803797	74.19	30	120	
Sc	45	1	He	502272	1.11	574766	87.39	30	120	
Sc	45	2	NoGas	3945985	0.31	4296857	91.83	30	120	
Rh	103	1	He	1352871	0.41	1652712	81.86	30	120	
In	115	1	He	739281	0.57	852389	86.73	30	120	
Tb	159	1	He	2413295	1.23	2425956	99.48	30	120	
Ho	165	1	He	2475295	0.70	2452680	100.92	30	120	
Bi	209	1	He	1710746	1.95	1810473	94.49	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-21-b@2
Data File Name	163SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:50:52-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.723	3.723	1.73	15885	0.02	10000	
B	11	45	2	NoGas	28.405	28.405	2.81	95596	0.03	300	
Na	23	45	1	He	319.778	319.778	0.78	456703	0.07	500000	
Mg	24	45	1	He	18946.028	18946.028	1.14	14363800	0.13	500000	
Al	27	45	1	He	68941.452	68941.452	0.38	27183096	0.25	200000	
K	39	45	1	He	7838.773	7838.773	0.39	4721960	0.17	500000	
Ca	44	45	1	He	10159.266	10159.266	0.10	322839	3.15	500000	
Ti	47	45	1	He	455.934	455.934	0.27	86139	0.53	2500	
V	51	45	1	He	122.939	122.939	0.72	593659	0.02	10000	
Cr	52	45	1	He	123.244	123.244	0.25	732400	0.02	10000	
Mn	55	45	1	He	2933.271	2933.271	2.23	12287465	0.02	10000	
Fe	56	45	1	He	165001.202	165001.202	1.25	894765813	0.02	200000	
Co	59	103	1	He	78.903	78.903	0.44	663129	0.01	10000	
Ni	60	103	1	He	160.438	160.438	0.86	342937	0.05	10000	
Cu	63	103	1	He	130.354	130.354	0.60	744924	0.02	10000	
Zn	66	103	1	He	390.505	390.505	0.63	453271	0.09	10000	
As	75	103	1	He	89.514	89.514	0.21	65827	0.14	10000	
Se	78	103	1	He	7.542	7.542	1.29	482	1.57	10000	
Sr	88	103	1	He	52.245	52.245	1.22	228210	0.02	10000	
Mo	95	103	1	He	8.623	8.623	1.91	20837	0.04	2000	
Ag	107	103	1	He	0.132	0.132	6.66	1100	0.01	300	
Cd	111	103	1	He	0.942	0.942	7.08	1959	0.05	4000	
Sn	118	115	1	He	18.400	18.400	1.83	59063	0.03	2000	
Sb	123	115	1	He	0.653	0.653	6.28	2959	0.02	300	
Ba	137	115	1	He	417.422	417.422	0.52	554677	0.08	10000	
W	182	165	1	He	0.208	0.208	2.91	4986	0.00	2500	
Tl	205	209	1	He	1.059	1.059	1.72	25626	0.00	5000	
Pb	208	209	1	He	78.938	78.938	1.10	2477060	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1362488	0.92	1803797	75.53	30	120	
Sc	45	1	He	499779	1.04	574766	86.95	30	120	
Sc	45	2	NoGas	3910184	1.81	4296857	91.00	30	120	
Rh	103	1	He	1317026	0.54	1652712	79.69	30	120	
In	115	1	He	724059	0.63	852389	84.94	30	120	
Tb	159	1	He	2463940	0.46	2425956	101.57	30	120	
Ho	165	1	He	2468613	0.27	2452680	100.65	30	120	
Bi	209	1	He	1731930	1.53	1810473	95.66	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-1-b@2
Data File Name	164SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:54:42-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.802	3.802	2.70	15759	0.02	10000	
B	11	45	2	NoGas	23.072	23.072	1.15	74327	0.03	300	
Na	23	45	1	He	282.778	282.778	2.07	379577	0.07	500000	
Mg	24	45	1	He	19137.935	19137.935	1.01	13525213	0.14	500000	
Al	27	45	1	He	70981.379	70981.379	1.42	26085855	0.27	200000	
K	39	45	1	He	6227.329	6227.329	0.55	3507394	0.18	500000	
Ca	44	45	1	He	31519.139	31519.139	0.58	932642	3.38	500000	
Ti	47	45	1	He	391.656	391.656	0.61	68972	0.57	2500	
V	51	45	1	He	138.714	138.714	0.70	624327	0.02	10000	
Cr	52	45	1	He	109.947	109.947	0.54	609302	0.02	10000	
Mn	55	45	1	He	4471.797	4471.797	0.64	17461873	0.03	10000	
Fe	56	45	1	He	156699.212	156699.212	1.64	792075240	0.02	200000	
Co	59	103	1	He	58.565	58.565	0.80	475184	0.01	10000	
Ni	60	103	1	He	123.341	123.341	1.00	254534	0.05	10000	
Cu	63	103	1	He	74.313	74.313	0.69	410800	0.02	10000	
Zn	66	103	1	He	344.415	344.415	0.12	386025	0.09	10000	
As	75	103	1	He	72.249	72.249	0.57	51322	0.14	10000	
Se	78	103	1	He	5.373	5.373	10.09	338	1.59	10000	
Sr	88	103	1	He	89.548	89.548	1.36	377539	0.02	10000	
Mo	95	103	1	He	8.108	8.108	1.57	18947	0.04	2000	
Ag	107	103	1	He	0.335	0.335	3.97	2659	0.01	300	
Cd	111	103	1	He	1.135	1.135	5.29	2144	0.05	4000	
Sn	118	115	1	He	17.371	17.371	1.21	53448	0.03	2000	
Sb	123	115	1	He	14.053	14.053	0.50	45969	0.03	300	
Ba	137	115	1	He	473.422	473.422	0.65	602614	0.08	10000	
W	182	165	1	He	0.249	0.249	10.03	5086	0.00	2500	
Tl	205	209	1	He	1.032	1.032	1.03	22516	0.00	5000	
Pb	208	209	1	He	98.363	98.363	0.33	2780526	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1323810	1.38	1803797	73.39	30	120	
Sc	45	1	He	465860	0.78	574766	81.05	30	120	
Sc	45	2	NoGas	3694430	0.46	4296857	85.98	30	120	
Rh	103	1	He	1271498	0.95	1652712	76.93	30	120	
In	115	1	He	693593	0.69	852389	81.37	30	120	
Tb	159	1	He	2239287	0.66	2425956	92.31	30	120	
Ho	165	1	He	2311554	1.03	2452680	94.25	30	120	
Bi	209	1	He	1560160	0.29	1810473	86.17	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	165_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:58:30-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.046	2.975	192199	2.75	50	92.1	89.5	110.5	
B	11	45	2	NoGas	47.676	1.270	147313	1.08	50	95.4	89.5	110.5	
Na	23	45	1	He	25475.839	1.678	31512394	2.04	25000	101.9	89.5	110.5	
Mg	24	45	1	He	25473.088	0.804	17850494	1.10	25000	101.9	89.5	110.5	
Al	27	45	1	He	252.874	1.143	92752	1.05	250	101.1	89.5	110.5	
K	39	45	1	He	26330.803	0.429	14536977	0.54	25000	105.3	89.5	110.5	
Ca	44	45	1	He	25413.402	0.402	745719	0.74	25000	101.7	89.5	110.5	
Ti	47	45	1	He	52.313	0.628	9136	0.97	50	104.6	89.5	110.5	
V	51	45	1	He	51.563	0.416	230251	0.15	50	103.1	89.5	110.5	
Cr	52	45	1	He	51.634	0.807	285013	0.96	50	103.3	89.5	110.5	
Mn	55	45	1	He	260.489	0.748	1008723	0.38	250	104.2	89.5	110.5	
Fe	56	45	1	He	13170.637	0.065	66019142	0.35	12500	105.4	89.5	110.5	
Co	59	103	1	He	47.228	0.847	405369	0.44	50	94.5	89.5	110.5	
Ni	60	103	1	He	47.151	0.682	102983	0.35	50	94.3	89.5	110.5	
Cu	63	103	1	He	47.038	0.316	275815	0.74	50	94.1	89.5	110.5	
Zn	66	103	1	He	48.495	0.644	58090	0.90	50	97.0	89.5	110.5	
As	75	103	1	He	49.178	0.897	37005	0.52	50	98.4	89.5	110.5	
Se	78	103	1	He	49.339	0.984	3085	1.23	50	98.7	89.5	110.5	
Sr	88	103	1	He	51.163	0.401	228234	0.84	50	102.3	89.5	110.5	
Mo	95	103	1	He	51.935	1.475	125330	1.41	50	103.9	89.5	110.5	
Ag	107	103	1	He	51.472	0.528	428181	0.65	50	102.9	89.5	110.5	
Cd	111	103	1	He	52.217	0.991	73236	0.57	50	104.4	89.5	110.5	
Sn	118	115	1	He	50.029	0.285	162659	0.35	50	100.1	89.5	110.5	
Sb	123	115	1	He	53.541	0.371	184478	0.50	50	107.1	89.5	110.5	
Ba	137	115	1	He	53.357	0.953	72402	1.30	50	106.7	89.5	110.5	
W	182	165	1	He	46.220	1.129	494790	1.46	50	92.4	89.5	110.5	
Tl	205	209	1	He	47.032	1.531	1105123	0.40	50	94.1	89.5	110.5	
Pb	208	209	1	He	48.830	1.713	1510120	0.58	50	97.7	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1333599	1.99	1803797	73.93	30	120	
Sc	45	1	He	461923	0.37	574766	80.37	30	120	
Sc	45	2	NoGas	3671477	0.21	4296857	85.45	30	120	
Rh	103	1	He	1345038	0.44	1652712	81.38	30	120	
In	115	1	He	739252	0.56	852389	86.73	30	120	
Tb	159	1	He	2313565	0.98	2425956	95.37	30	120	
Ho	165	1	He	2392744	0.36	2452680	97.56	30	120	
Bi	209	1	He	1706601	1.27	1810473	94.26	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	166_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:02:23-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.048	16.0	196	16.3	1	
B	11	45	2	NoGas	4.230	5.7	17298	3.6	20	
Na	23	45	1	He	9.744	8.2	37398	1.6	400	
Mg	24	45	1	He	2.840	13.6	2623	8.8	1000	
Al	27	45	1	He	10.077	4.9	4103	4.5	50	
K	39	45	1	He	13.984	8.8	57351	0.2	1000	
Ca	44	45	1	He	2.900	54.2	525	9.3	1000	
Ti	47	45	1	He	0.221	61.2	38	58.7	20	
V	51	45	1	He	0.092	90.5	593	58.7	2	
Cr	52	45	1	He	-0.045	-24.2	2082	2.2	2	
Mn	55	45	1	He	1.432	3.7	5451	3.1	2	
Fe	56	45	1	He	35.854	9.0	177094	7.7	50	
Co	59	103	1	He	0.028	21.4	287	17.6	1	
Ni	60	103	1	He	0.049	29.4	186	16.7	2	
Cu	63	103	1	He	-0.184	-12.3	953	13.9	2	
Zn	66	103	1	He	0.506	5.1	1290	2.5	20	
As	75	103	1	He	-0.010	-135.9	153	6.9	2	
Se	78	103	1	He	0.152	75.0	34	21.3	2	
Sr	88	103	1	He	0.013	19.7	172	5.9	10	
Mo	95	103	1	He	0.760	22.0	2394	16.3	2	
Ag	107	103	1	He	0.000	-453.4	24	34.3	0.2	
Cd	111	103	1	He	0.015	40.4	713	0.9	0.2	
Sn	118	115	1	He	0.248	18.5	1545	8.7	10	
Sb	123	115	1	He	0.061	99.1	983	20.2	1	
Ba	137	115	1	He	0.042	18.7	68	14.2	5	
W	182	165	1	He	0.824	10.7	10934	9.0	10	
Tl	205	209	1	He	0.035	32.0	1171	22.2	0.5	
Pb	208	209	1	He	0.034	10.2	1840	7.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1298093	1.06	1803797	71.96	30	120	
Sc	45	1	He	443378	0.98	574766	77.14	30	120	
Sc	45	2	NoGas	3604638	0.55	4296857	83.89	30	120	
Rh	103	1	He	1346889	0.58	1652712	81.50	30	120	
In	115	1	He	735660	1.50	852389	86.31	30	120	
Tb	159	1	He	2231203	0.19	2425956	91.97	30	120	
Ho	165	1	He	2294535	0.89	2452680	93.55	30	120	
Bi	209	1	He	1661870	2.94	1810473	91.79	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-2-b@2
Data File Name	167SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:06:16-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.579	3.579	0.60	14847	0.02	10000	
B	11	45	2	NoGas	13.514	13.514	3.24	47120	0.03	300	
Na	23	45	1	He	147.719	147.719	1.55	223292	0.07	500000	
Mg	24	45	1	He	10355.212	10355.212	1.58	7735005	0.13	500000	
Al	27	45	1	He	63224.773	63224.773	1.11	24559510	0.26	200000	
K	39	45	1	He	3960.994	3960.994	0.46	2378243	0.17	500000	
Ca	44	45	1	He	2245.321	2245.321	1.91	70673	3.18	500000	
Ti	47	45	1	He	364.667	364.667	2.43	67871	0.54	2500	
V	51	45	1	He	134.067	134.067	0.78	637812	0.02	10000	
Cr	52	45	1	He	95.420	95.420	0.51	559259	0.02	10000	
Mn	55	45	1	He	5016.494	5016.494	0.44	20705928	0.02	10000	
Fe	56	45	1	He	131210.953	131210.953	0.60	701044523	0.02	200000	
Co	59	103	1	He	52.826	52.826	0.42	445962	0.01	10000	
Ni	60	103	1	He	100.539	100.539	0.55	215899	0.05	10000	
Cu	63	103	1	He	64.839	64.839	1.32	373196	0.02	10000	
Zn	66	103	1	He	291.375	291.375	0.46	339885	0.09	10000	
As	75	103	1	He	60.699	60.699	0.82	44887	0.14	10000	
Se	78	103	1	He	5.265	5.265	4.19	345	1.53	10000	
Sr	88	103	1	He	24.773	24.773	0.60	108749	0.02	10000	
Mo	95	103	1	He	7.906	7.906	0.69	19236	0.04	2000	
Ag	107	103	1	He	0.268	0.268	2.59	2222	0.01	300	
Cd	111	103	1	He	0.946	0.946	7.99	1973	0.05	4000	
Sn	118	115	1	He	18.345	18.345	1.37	58851	0.03	2000	
Sb	123	115	1	He	3.884	3.884	2.26	13808	0.03	300	
Ba	137	115	1	He	438.917	438.917	0.21	582902	0.08	10000	
W	182	165	1	He	0.546	0.546	4.86	8325	0.01	2500	
Tl	205	209	1	He	0.941	0.941	1.25	22351	0.00	5000	
Pb	208	209	1	He	97.273	97.273	1.28	2989640	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1324770	1.65	1803797	73.44	30	120	
Sc	45	1	He	492412	1.07	574766	85.67	30	120	
Sc	45	2	NoGas	3817322	1.75	4296857	88.84	30	120	
Rh	103	1	He	1322918	0.35	1652712	80.05	30	120	
In	115	1	He	723623	0.28	852389	84.89	30	120	
Tb	159	1	He	2287066	1.44	2425956	94.27	30	120	
Ho	165	1	He	2362232	1.04	2452680	96.31	30	120	
Bi	209	1	He	1696276	0.53	1810473	93.69	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-3-b@2
Data File Name	168SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:10:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	4.727	4.727	4.79	19541	0.02	10000	
B	11	45	2	NoGas	14.909	14.909	2.76	50979	0.03	300	
Na	23	45	1	He	168.721	168.721	0.49	248211	0.07	500000	
Mg	24	45	1	He	13318.593	13318.593	0.44	9839626	0.14	500000	
Al	27	45	1	He	68672.422	68672.422	0.33	26383485	0.26	200000	
K	39	45	1	He	4662.002	4662.002	0.95	2758595	0.17	500000	
Ca	44	45	1	He	2029.101	2029.101	0.57	63218	3.21	500000	
Ti	47	45	1	He	456.738	456.738	0.54	84080	0.54	2500	
V	51	45	1	He	160.077	160.077	0.41	753120	0.02	10000	
Cr	52	45	1	He	115.603	115.603	0.39	669562	0.02	10000	
Mn	55	45	1	He	6920.000	6920.000	0.42	28247447	0.02	10000	
Fe	56	45	1	He	169332.268	169332.268	0.36	894773084	0.02	200000	
Co	59	103	1	He	73.891	73.891	0.75	615803	0.01	10000	
Ni	60	103	1	He	138.875	138.875	0.25	294384	0.05	10000	
Cu	63	103	1	He	78.885	78.885	0.44	447811	0.02	10000	
Zn	66	103	1	He	357.091	357.091	0.40	411071	0.09	10000	
As	75	103	1	He	74.867	74.867	0.76	54620	0.14	10000	
Se	78	103	1	He	6.242	6.242	7.56	400	1.56	10000	
Sr	88	103	1	He	31.168	31.168	0.48	135047	0.02	10000	
Mo	95	103	1	He	9.619	9.619	1.91	22988	0.04	2000	
Ag	107	103	1	He	0.270	0.270	3.88	2206	0.01	300	
Cd	111	103	1	He	1.120	1.120	9.02	2183	0.05	4000	
Sn	118	115	1	He	17.881	17.881	3.02	56821	0.03	2000	
Sb	123	115	1	He	0.972	0.972	0.23	3986	0.02	300	
Ba	137	115	1	He	609.896	609.896	0.93	802000	0.08	10000	
W	182	165	1	He	0.298	0.298	13.89	5790	0.01	2500	
Tl	205	209	1	He	1.039	1.039	0.97	24549	0.00	5000	
Pb	208	209	1	He	103.053	103.053	2.29	3157453	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1321506	2.82	1803797	73.26	30	120	
Sc	45	1	He	486979	0.21	574766	84.73	30	120	
Sc	45	2	NoGas	3780997	0.47	4296857	87.99	30	120	
Rh	103	1	He	1306035	0.57	1652712	79.02	30	120	
In	115	1	He	716526	0.40	852389	84.06	30	120	
Tb	159	1	He	2312364	0.40	2425956	95.32	30	120	
Ho	165	1	He	2392961	1.14	2452680	97.57	30	120	
Bi	209	1	He	1691320	1.16	1810473	93.42	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-4-b@2
Data File Name	169SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:13:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.358	3.358	5.93	13895	0.02	10000	
B	11	45	2	NoGas	10.486	10.486	2.32	37788	0.03	300	
Na	23	45	1	He	153.698	153.698	2.90	227981	0.07	500000	
Mg	24	45	1	He	11512.465	11512.465	1.59	8481549	0.14	500000	
Al	27	45	1	He	72345.877	72345.877	2.48	27713863	0.26	200000	
K	39	45	1	He	3560.711	3560.711	1.19	2114136	0.17	500000	
Ca	44	45	1	He	2431.127	2431.127	0.52	75453	3.22	500000	
Ti	47	45	1	He	402.007	402.007	1.57	73799	0.54	2500	
V	51	45	1	He	155.629	155.629	1.55	730155	0.02	10000	
Cr	52	45	1	He	101.451	101.451	1.96	586234	0.02	10000	
Mn	55	45	1	He	4322.049	4322.049	2.59	17591924	0.02	10000	
Fe	56	45	1	He	141730.918	141730.918	1.89	746807739	0.02	200000	
Co	59	103	1	He	54.674	54.674	0.60	461911	0.01	10000	
Ni	60	103	1	He	95.885	95.885	0.62	206064	0.05	10000	
Cu	63	103	1	He	54.642	54.642	0.86	315053	0.02	10000	
Zn	66	103	1	He	377.215	377.215	1.22	440141	0.09	10000	
As	75	103	1	He	62.523	62.523	0.85	46265	0.14	10000	
Se	78	103	1	He	5.600	5.600	1.33	366	1.53	10000	
Sr	88	103	1	He	23.501	23.501	0.31	103252	0.02	10000	
Mo	95	103	1	He	9.236	9.236	0.20	22398	0.04	2000	
Ag	107	103	1	He	0.251	0.251	4.75	2081	0.01	300	
Cd	111	103	1	He	1.089	1.089	2.22	2170	0.05	4000	
Sn	118	115	1	He	18.215	18.215	2.66	58743	0.03	2000	
Sb	123	115	1	He	0.712	0.712	2.28	3168	0.02	300	
Ba	137	115	1	He	400.066	400.066	0.78	534044	0.07	10000	
W	182	165	1	He	0.317	0.317	15.81	5979	0.01	2500	
Tl	205	209	1	He	1.020	1.020	0.57	24638	0.00	5000	
Pb	208	209	1	He	111.225	111.225	1.07	3480793	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1321466	1.45	1803797	73.26	30	120	
Sc	45	1	He	485712	1.90	574766	84.51	30	120	
Sc	45	2	NoGas	3822367	0.47	4296857	88.96	30	120	
Rh	103	1	He	1323926	0.34	1652712	80.11	30	120	
In	115	1	He	727352	0.20	852389	85.33	30	120	
Tb	159	1	He	2323854	0.91	2425956	95.79	30	120	
Ho	165	1	He	2387542	1.12	2452680	97.34	30	120	
Bi	209	1	He	1727326	0.47	1810473	95.41	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-5-b@2
Data File Name	170SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:17:40-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.299	3.299	1.31	13131	0.03	10000	
B	11	45	2	NoGas	14.420	14.420	2.24	48200	0.03	300	
Na	23	45	1	He	152.375	152.375	0.64	220017	0.07	500000	
Mg	24	45	1	He	10116.816	10116.816	1.01	7247108	0.14	500000	
Al	27	45	1	He	62995.138	62995.138	0.51	23466591	0.27	200000	
K	39	45	1	He	3794.556	3794.556	2.16	2186879	0.17	500000	
Ca	44	45	1	He	5261.809	5261.809	0.66	158199	3.33	500000	
Ti	47	45	1	He	491.857	491.857	0.99	87793	0.56	2500	
V	51	45	1	He	136.222	136.222	1.03	621432	0.02	10000	
Cr	52	45	1	He	94.538	94.538	1.06	531350	0.02	10000	
Mn	55	45	1	He	7250.436	7250.436	0.91	28696296	0.03	10000	
Fe	56	45	1	He	119421.988	119421.988	0.43	611860545	0.02	200000	
Co	59	103	1	He	53.202	53.202	0.55	446842	0.01	10000	
Ni	60	103	1	He	94.402	94.402	0.17	201690	0.05	10000	
Cu	63	103	1	He	50.922	50.922	0.66	292008	0.02	10000	
Zn	66	103	1	He	306.290	306.290	1.15	355404	0.09	10000	
As	75	103	1	He	52.711	52.711	0.54	38802	0.14	10000	
Se	78	103	1	He	5.382	5.382	5.76	350	1.54	10000	
Sr	88	103	1	He	34.156	34.156	0.64	149135	0.02	10000	
Mo	95	103	1	He	8.427	8.427	0.71	20364	0.04	2000	
Ag	107	103	1	He	0.276	0.276	7.83	2271	0.01	300	
Cd	111	103	1	He	1.249	1.249	5.27	2376	0.05	4000	
Sn	118	115	1	He	18.535	18.535	3.06	59370	0.03	2000	
Sb	123	115	1	He	1.050	1.050	3.79	4282	0.02	300	
Ba	137	115	1	He	520.529	520.529	0.72	690334	0.08	10000	
W	182	165	1	He	0.360	0.360	4.71	6413	0.01	2500	
Tl	205	209	1	He	0.978	0.978	0.32	23730	0.00	5000	
Pb	208	209	1	He	103.746	103.746	1.48	3260028	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1271373	1.16	1803797	70.48	30	120	
Sc	45	1	He	472180	0.43	574766	82.15	30	120	
Sc	45	2	NoGas	3683767	0.84	4296857	85.73	30	120	
Rh	103	1	He	1316175	0.97	1652712	79.64	30	120	
In	115	1	He	722641	0.37	852389	84.78	30	120	
Tb	159	1	He	2287517	0.25	2425956	94.29	30	120	
Ho	165	1	He	2378723	0.77	2452680	96.98	30	120	
Bi	209	1	He	1734465	0.99	1810473	95.80	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-6-b@2
Data File Name	171SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:21:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.975	2.975	2.83	12097	0.02	10000	
B	11	45	2	NoGas	14.427	14.427	0.33	48111	0.03	300	
Na	23	45	1	He	169.569	169.569	3.26	240115	0.07	500000	
Mg	24	45	1	He	10530.657	10530.657	0.87	7494159	0.14	500000	
Al	27	45	1	He	57820.990	57820.990	1.70	21398125	0.27	200000	
K	39	45	1	He	3670.110	3670.110	1.05	2103298	0.17	500000	
Ca	44	45	1	He	10716.845	10716.845	0.60	319622	3.35	500000	
Ti	47	45	1	He	414.830	414.830	1.38	73556	0.56	2500	
V	51	45	1	He	124.368	124.368	1.01	563659	0.02	10000	
Cr	52	45	1	He	92.969	92.969	0.83	519171	0.02	10000	
Mn	55	45	1	He	3410.503	3410.503	1.50	13409488	0.03	10000	
Fe	56	45	1	He	108976.940	108976.940	0.91	554685845	0.02	200000	
Co	59	103	1	He	42.212	42.212	0.68	352128	0.01	10000	
Ni	60	103	1	He	97.632	97.632	0.23	207165	0.05	10000	
Cu	63	103	1	He	66.325	66.325	1.23	377154	0.02	10000	
Zn	66	103	1	He	350.033	350.033	0.61	403323	0.09	10000	
As	75	103	1	He	50.329	50.329	0.32	36804	0.14	10000	
Se	78	103	1	He	4.740	4.740	8.45	309	1.53	10000	
Sr	88	103	1	He	69.941	69.941	0.78	303176	0.02	10000	
Mo	95	103	1	He	7.633	7.633	2.62	18371	0.04	2000	
Ag	107	103	1	He	0.240	0.240	4.90	1966	0.01	300	
Cd	111	103	1	He	1.123	1.123	6.06	2188	0.05	4000	
Sn	118	115	1	He	26.173	26.173	2.36	83241	0.03	2000	
Sb	123	115	1	He	1.569	1.569	2.34	6002	0.03	300	
Ba	137	115	1	He	595.383	595.383	0.73	786792	0.08	10000	
W	182	165	1	He	0.303	0.303	4.63	5772	0.01	2500	
Tl	205	209	1	He	0.860	0.860	0.49	20351	0.00	5000	
Pb	208	209	1	He	120.278	120.278	1.23	3676742	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1298633	1.07	1803797	71.99	30	120	
Sc	45	1	He	469112	1.17	574766	81.62	30	120	
Sc	45	2	NoGas	3675269	1.29	4296857	85.53	30	120	
Rh	103	1	He	1307209	0.45	1652712	79.09	30	120	
In	115	1	He	720072	0.77	852389	84.48	30	120	
Tb	159	1	He	2301234	0.47	2425956	94.86	30	120	
Ho	165	1	He	2360709	0.35	2452680	96.25	30	120	
Bi	209	1	He	1687296	1.00	1810473	93.20	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-7-b@2
Data File Name	172SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:25:16-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.403	3.403	5.86	13646	0.02	10000	
B	11	45	2	NoGas	16.469	16.469	1.67	56256	0.03	300	
Na	23	45	1	He	204.671	204.671	2.37	293054	0.07	500000	
Mg	24	45	1	He	10952.409	10952.409	0.90	8037442	0.14	500000	
Al	27	45	1	He	45267.250	45267.250	1.13	17274445	0.26	200000	
K	39	45	1	He	6065.549	6065.549	1.53	3548474	0.17	500000	
Ca	44	45	1	He	2076.771	2076.771	0.89	64258	3.23	500000	
Ti	47	45	1	He	339.899	339.899	1.03	62151	0.55	2500	
V	51	45	1	He	85.011	85.011	0.29	397379	0.02	10000	
Cr	52	45	1	He	133.592	133.592	0.28	768172	0.02	10000	
Mn	55	45	1	He	1608.248	1608.248	1.89	6520538	0.02	10000	
Fe	56	45	1	He	122640.860	122640.860	1.24	643684703	0.02	200000	
Co	59	103	1	He	44.149	44.149	0.67	368255	0.01	10000	
Ni	60	103	1	He	133.312	133.312	1.10	282802	0.05	10000	
Cu	63	103	1	He	82.023	82.023	0.97	465892	0.02	10000	
Zn	66	103	1	He	213.719	213.719	0.95	246484	0.09	10000	
As	75	103	1	He	53.091	53.091	1.15	38808	0.14	10000	
Se	78	103	1	He	4.797	4.797	2.53	313	1.53	10000	
Sr	88	103	1	He	24.653	24.653	0.53	106925	0.02	10000	
Mo	95	103	1	He	4.251	4.251	2.74	10477	0.04	2000	
Ag	107	103	1	He	0.161	0.161	3.28	1323	0.01	300	
Cd	111	103	1	He	0.618	0.618	8.84	1507	0.04	4000	
Sn	118	115	1	He	17.094	17.094	0.50	54210	0.03	2000	
Sb	123	115	1	He	0.361	0.361	13.89	1951	0.02	300	
Ba	137	115	1	He	272.189	272.189	0.48	357018	0.08	10000	
W	182	165	1	He	0.145	0.145	28.82	4164	0.00	2500	
Tl	205	209	1	He	0.716	0.716	1.26	16823	0.00	5000	
Pb	208	209	1	He	77.370	77.370	0.93	2339599	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1281548	1.69	1803797	71.05	30	120	
Sc	45	1	He	483721	0.70	574766	84.16	30	120	
Sc	45	2	NoGas	3813521	1.11	4296857	88.75	30	120	
Rh	103	1	He	1307080	0.83	1652712	79.09	30	120	
In	115	1	He	714690	0.62	852389	83.85	30	120	
Tb	159	1	He	2327964	0.68	2425956	95.96	30	120	
Ho	165	1	He	2394413	1.30	2452680	97.62	30	120	
Bi	209	1	He	1668906	0.87	1810473	92.18	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-8-b@2
Data File Name	173SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:29:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.558	3.558	3.75	14262	0.02	10000	
B	11	45	2	NoGas	18.928	18.928	0.85	64446	0.03	300	
Na	23	45	1	He	184.224	184.224	1.49	270993	0.07	500000	
Mg	24	45	1	He	12623.840	12623.840	2.02	9415455	0.13	500000	
Al	27	45	1	He	73834.871	73834.871	2.25	28638152	0.26	200000	
K	39	45	1	He	6297.212	6297.212	2.55	3742135	0.17	500000	
Ca	44	45	1	He	1318.867	1318.867	1.22	41660	3.17	500000	
Ti	47	45	1	He	388.970	388.970	2.57	72285	0.54	2500	
V	51	45	1	He	131.159	131.159	2.37	622975	0.02	10000	
Cr	52	45	1	He	106.231	106.231	1.51	621398	0.02	10000	
Mn	55	45	1	He	790.292	790.292	2.17	3256844	0.02	10000	
Fe	56	45	1	He	146871.366	146871.366	2.00	783507293	0.02	200000	
Co	59	103	1	He	39.156	39.156	0.78	326502	0.01	10000	
Ni	60	103	1	He	92.766	92.766	0.69	196762	0.05	10000	
Cu	63	103	1	He	92.994	92.994	0.82	527796	0.02	10000	
Zn	66	103	1	He	256.430	256.430	1.15	295520	0.09	10000	
As	75	103	1	He	70.655	70.655	0.74	51582	0.14	10000	
Se	78	103	1	He	5.994	5.994	3.44	385	1.56	10000	
Sr	88	103	1	He	22.482	22.482	0.94	97491	0.02	10000	
Mo	95	103	1	He	5.767	5.767	2.62	14008	0.04	2000	
Ag	107	103	1	He	0.199	0.199	0.35	1633	0.01	300	
Cd	111	103	1	He	0.647	0.647	8.19	1545	0.04	4000	
Sn	118	115	1	He	17.294	17.294	0.90	54756	0.03	2000	
Sb	123	115	1	He	0.688	0.688	7.51	3030	0.02	300	
Ba	137	115	1	He	342.913	342.913	0.61	449110	0.08	10000	
W	182	165	1	He	0.190	0.190	17.26	4668	0.00	2500	
Tl	205	209	1	He	1.007	1.007	5.02	23369	0.00	5000	
Pb	208	209	1	He	70.385	70.385	2.81	2116525	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1280505	0.93	1803797	70.99	30	120	
Sc	45	1	He	491737	1.69	574766	85.55	30	120	
Sc	45	2	NoGas	3847437	0.86	4296857	89.54	30	120	
Rh	103	1	He	1306689	0.68	1652712	79.06	30	120	
In	115	1	He	713625	0.30	852389	83.72	30	120	
Tb	159	1	He	2333982	0.88	2425956	96.21	30	120	
Ho	165	1	He	2406314	0.79	2452680	98.11	30	120	
Bi	209	1	He	1660275	2.59	1810473	91.70	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	174_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:32:54-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.915	2.210	187100	1.42	50	93.8	89.5	110.5	
B	11	45	2	NoGas	44.488	1.130	137537	1.47	50	89.0	89.5	110.5	CCV Failed
Na	23	45	1	He	25059.587	1.208	31044540	1.02	25000	100.2	89.5	110.5	
Mg	24	45	1	He	24991.094	1.973	17537764	0.68	25000	100.0	89.5	110.5	
Al	27	45	1	He	250.300	1.553	91952	0.69	250	100.1	89.5	110.5	
K	39	45	1	He	26137.765	2.377	14450898	0.81	25000	104.6	89.5	110.5	
Ca	44	45	1	He	25258.170	1.807	742247	0.74	25000	101.0	89.5	110.5	
Ti	47	45	1	He	52.010	3.619	9095	2.41	50	104.0	89.5	110.5	
V	51	45	1	He	51.498	0.338	230351	2.01	50	103.0	89.5	110.5	
Cr	52	45	1	He	51.240	1.570	283274	0.78	50	102.5	89.5	110.5	
Mn	55	45	1	He	260.516	1.725	1010341	0.84	250	104.2	89.5	110.5	
Fe	56	45	1	He	13265.508	1.930	66591617	0.88	12500	106.1	89.5	110.5	
Co	59	103	1	He	46.867	0.852	403474	0.36	50	93.7	89.5	110.5	
Ni	60	103	1	He	46.342	0.768	101526	1.12	50	92.7	89.5	110.5	
Cu	63	103	1	He	46.780	1.173	275131	0.64	50	93.6	89.5	110.5	
Zn	66	103	1	He	48.329	0.110	58068	0.75	50	96.7	89.5	110.5	
As	75	103	1	He	48.206	0.981	36385	0.15	50	96.4	89.5	110.5	
Se	78	103	1	He	47.975	4.327	3008	3.48	50	95.9	89.5	110.5	
Sr	88	103	1	He	51.302	0.650	229534	0.24	50	102.6	89.5	110.5	
Mo	95	103	1	He	51.474	2.633	124582	1.83	50	102.9	89.5	110.5	
Ag	107	103	1	He	51.220	0.775	427358	0.34	50	102.4	89.5	110.5	
Cd	111	103	1	He	52.590	1.984	73972	1.30	50	105.2	89.5	110.5	
Sn	118	115	1	He	51.216	0.912	168455	0.82	50	102.4	89.5	110.5	
Sb	123	115	1	He	53.252	0.639	185641	0.61	50	106.5	89.5	110.5	
Ba	137	115	1	He	52.955	0.573	72698	0.50	50	105.9	89.5	110.5	
W	182	165	1	He	46.719	1.525	506865	0.67	50	93.4	89.5	110.5	
Tl	205	209	1	He	46.593	0.668	1127597	0.32	50	93.2	89.5	110.5	
Pb	208	209	1	He	48.113	0.877	1532540	0.68	50	96.2	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1274108	0.94	1803797	70.63	30	120	
Sc	45	1	He	462718	2.22	574766	80.51	30	120	
Sc	45	2	NoGas	3664641	1.32	4296857	85.29	30	120	
Rh	103	1	He	1349104	0.84	1652712	81.63	30	120	
In	115	1	He	747931	0.36	852389	87.75	30	120	
Tb	159	1	He	2323275	0.75	2425956	95.77	30	120	
Ho	165	1	He	2425399	1.00	2452680	98.89	30	120	
Bi	209	1	He	1757560	0.94	1810473	97.08	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	175_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:36:44-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.041	25.5	163	25.8	1	
B	11	45	2	NoGas	3.020	2.8	13424	2.1	20	
Na	23	45	1	He	7.071	15.6	33992	2.6	400	
Mg	24	45	1	He	2.876	26.6	2626	18.0	1000	
Al	27	45	1	He	10.556	8.9	4238	6.4	50	
K	39	45	1	He	10.130	52.3	54925	3.9	1000	
Ca	44	45	1	He	4.079	34.2	555	8.0	1000	
Ti	47	45	1	He	0.222	22.0	38	22.2	20	
V	51	45	1	He	0.104	39.6	642	26.2	2	
Cr	52	45	1	He	-0.040	-37.1	2096	4.6	2	
Mn	55	45	1	He	1.630	4.7	6147	5.1	2	
Fe	56	45	1	He	42.457	11.1	207349	9.5	50	
Co	59	103	1	He	0.021	18.8	222	14.8	1	
Ni	60	103	1	He	0.038	2.2	162	1.2	2	
Cu	63	103	1	He	-0.198	-1.4	880	1.9	2	
Zn	66	103	1	He	0.470	14.7	1257	6.8	20	
As	75	103	1	He	-0.012	-73.6	153	4.7	2	
Se	78	103	1	He	0.162	77.8	34	22.6	2	
Sr	88	103	1	He	0.005	148.2	141	25.3	10	
Mo	95	103	1	He	0.681	25.2	2220	18.6	2	
Ag	107	103	1	He	0.001	299.5	36	76.4	0.2	
Cd	111	103	1	He	0.019	114.3	724	4.3	0.2	
Sn	118	115	1	He	0.217	22.5	1459	10.4	10	
Sb	123	115	1	He	0.021	126.1	854	11.0	1	
Ba	137	115	1	He	0.066	12.9	101	11.6	5	
W	182	165	1	He	0.815	15.8	10986	11.5	10	
Tl	205	209	1	He	0.036	37.4	1222	23.9	0.5	
Pb	208	209	1	He	0.032	6.0	1848	1.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1239406	0.65	1803797	68.71	30	120	
Sc	45	1	He	440384	1.32	574766	76.62	30	120	
Sc	45	2	NoGas	3518380	1.00	4296857	81.88	30	120	
Rh	103	1	He	1356792	0.26	1652712	82.09	30	120	
In	115	1	He	741406	0.49	852389	86.98	30	120	
Tb	159	1	He	2259452	0.45	2425956	93.14	30	120	
Ho	165	1	He	2327815	0.83	2452680	94.91	30	120	
Bi	209	1	He	1719357	2.57	1810473	94.97	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	176CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:40:37-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.919	0.919	1.471	3719	1.94	1	91.9	69.5	130.5	
B	11	2	NoGas	19.039	19.039	2.988	60350	2.41	20	95.2	69.5	130.5	
Na	23	1	He	1059.350	1059.350	2.871	1327698	3.10	1000	105.9	69.5	130.5	
Mg	24	1	He	1013.643	1013.643	0.603	706509	0.85	1000	101.4	69.5	130.5	
Al	27	1	He	49.764	49.764	1.970	18618	2.36	50	99.5	69.5	130.5	
K	39	1	He	1039.115	1039.115	1.087	619711	0.58	1000	103.9	69.5	130.5	
Ca	44	1	He	1030.015	1030.015	0.510	30472	0.55	1000	103.0	69.5	130.5	
Ti	47	1	He	10.384	10.384	9.112	1802	8.88	10	103.8	69.5	130.5	
V	51	1	He	5.196	5.196	3.761	23242	3.74	5	103.9	69.5	130.5	
Cr	52	1	He	3.938	3.938	0.669	23821	1.11	2	196.9	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	6.946	6.946	0.786	26859	1.21	5	138.9	69.5	130.5	6020A CR1 Failed
Fe	56	1	He	141.348	141.348	0.317	708825	0.21	100	141.3	69.5	130.5	6020A CR1 Failed
Co	59	1	He	0.967	0.967	0.507	8504	0.45	1	96.7	69.5	130.5	
Ni	60	1	He	2.711	2.711	0.749	6111	0.66	2	135.5	69.5	130.5	6020A CR1 Failed
Cu	63	1	He	1.740	1.740	0.542	12390	0.53	2	87.0	69.5	130.5	
Zn	66	1	He	19.415	19.415	1.334	24133	1.21	20	97.1	69.5	130.5	
As	75	1	He	4.834	4.834	2.628	3856	2.49	5	96.7	69.5	130.5	
Se	78	1	He	4.850	4.850	0.973	331	0.84	5	97.0	69.5	130.5	
Sr	88	1	He	10.127	10.127	1.218	46153	1.18	10	101.3	69.5	130.5	
Mo	95	1	He	10.304	10.304	1.339	25815	1.23	10	103.0	69.5	130.5	
Ag	107	1	He	1.053	1.053	2.461	8955	2.52	1	105.3	69.5	130.5	
Cd	111	1	He	1.036	1.036	2.829	2172	1.85	1	103.6	69.5	130.5	
Sn	118	1	He	9.960	9.960	1.415	33913	1.76	10	99.6	69.5	130.5	
Sb	123	1	He	1.868	1.868	1.205	7392	1.26	2	93.4	69.5	130.5	
Ba	137	1	He	5.372	5.372	2.860	7505	2.76	5	107.4	69.5	130.5	
W	182	1	He	9.125	9.125	2.826	100492	2.50	10	91.3	69.5	130.5	
Tl	205	1	He	1.874	1.874	1.319	46262	1.31	2	93.7	69.5	130.5	
Pb	208	1	He	1.029	1.029	1.391	34013	1.40	1	102.9	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1291839	1.03	1803797	71.62	30	120	
Sc	45	1	He	458988	0.51	574766	79.86	30	120	
Sc	45	2	NoGas	3584060	1.00	4296857	83.41	30	120	
Rh	103	1	He	1371334	0.08	1652712	82.97	30	120	
In	115	1	He	760046	0.40	852389	89.17	30	120	
Tb	159	1	He	2295040	1.43	2425956	94.60	30	120	
Ho	165	1	He	2409961	1.63	2452680	98.26	30	120	
Bi	209	1	He	1778455	0.21	1810473	98.23	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	177_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:44:29-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.990	1.158	191710	0.48	50	96.0	89.5	110.5	
B	11	45	2	NoGas	44.576	1.906	139789	0.97	50	89.2	89.5	110.5	CCV Failed
Na	23	45	1	He	24325.585	2.590	31186375	1.09	25000	97.3	89.5	110.5	
Mg	24	45	1	He	24343.227	3.402	17676828	0.52	25000	97.4	89.5	110.5	
Al	27	45	1	He	239.470	2.681	91069	1.00	250	95.8	89.5	110.5	
K	39	45	1	He	25558.928	4.222	14621541	1.33	25000	102.2	89.5	110.5	
Ca	44	45	1	He	24687.458	3.155	750726	0.66	25000	98.7	89.5	110.5	
Ti	47	45	1	He	49.721	4.575	8997	2.58	50	99.4	89.5	110.5	
V	51	45	1	He	50.868	3.100	235399	0.38	50	101.7	89.5	110.5	
Cr	52	45	1	He	50.027	3.156	286240	0.22	50	100.1	89.5	110.5	
Mn	55	45	1	He	252.019	2.675	1011466	0.35	250	100.8	89.5	110.5	
Fe	56	45	1	He	12797.300	2.065	66491017	1.01	12500	102.4	89.5	110.5	
Co	59	103	1	He	46.945	1.062	404687	0.96	50	93.9	89.5	110.5	
Ni	60	103	1	He	46.566	0.404	102148	0.46	50	93.1	89.5	110.5	
Cu	63	103	1	He	46.655	0.634	274765	0.60	50	93.3	89.5	110.5	
Zn	66	103	1	He	48.142	0.372	57921	0.29	50	96.3	89.5	110.5	
As	75	103	1	He	49.028	0.609	37053	0.70	50	98.1	89.5	110.5	
Se	78	103	1	He	48.987	1.949	3076	2.08	50	98.0	89.5	110.5	
Sr	88	103	1	He	51.979	0.185	232871	0.21	50	104.0	89.5	110.5	
Mo	95	103	1	He	51.372	1.149	124514	1.05	50	102.7	89.5	110.5	
Ag	107	103	1	He	51.204	0.656	427792	0.69	50	102.4	89.5	110.5	
Cd	111	103	1	He	52.682	0.655	74203	0.63	50	105.4	89.5	110.5	
Sn	118	115	1	He	50.251	0.512	166546	0.26	50	100.5	89.5	110.5	
Sb	123	115	1	He	53.039	0.636	186305	0.75	50	106.1	89.5	110.5	
Ba	137	115	1	He	53.227	0.876	73624	0.63	50	106.5	89.5	110.5	
W	182	165	1	He	46.163	1.328	498353	1.86	50	92.3	89.5	110.5	
Tl	205	209	1	He	46.406	1.576	1117624	0.74	50	92.8	89.5	110.5	
Pb	208	209	1	He	48.034	1.575	1522589	0.52	50	96.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1276176	0.80	1803797	70.75	30	120	
Sc	45	1	He	478993	3.04	574766	83.34	30	120	
Sc	45	2	NoGas	3717911	0.89	4296857	86.53	30	120	
Rh	103	1	He	1350846	0.16	1652712	81.74	30	120	
In	115	1	He	753599	0.42	852389	88.41	30	120	
Tb	159	1	He	2325124	1.48	2425956	95.84	30	120	
Ho	165	1	He	2412946	1.05	2452680	98.38	30	120	
Bi	209	1	He	1749142	1.06	1810473	96.61	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	178_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:48:20-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

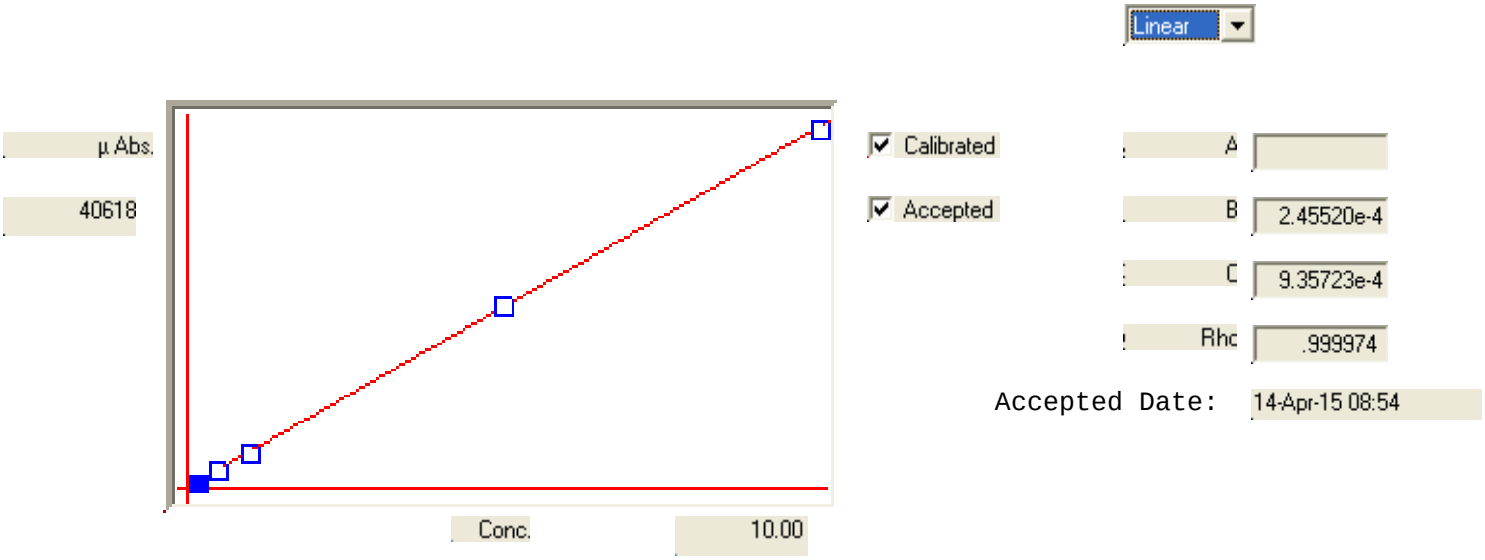
QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.047	15.6	189	15.6	1	
B	11	45	2	NoGas	3.671	5.8	15592	3.4	20	
Na	23	45	1	He	6.744	26.4	34099	4.3	400	
Mg	24	45	1	He	2.188	23.4	2200	14.2	1000	
Al	27	45	1	He	8.269	1.7	3499	3.2	50	
K	39	45	1	He	12.698	34.4	57117	2.3	1000	
Ca	44	45	1	He	2.941	49.0	530	6.9	1000	
Ti	47	45	1	He	0.153	23.2	27	21.7	20	
V	51	45	1	He	0.043	38.7	389	16.5	2	
Cr	52	45	1	He	-0.055	-18.7	2047	4.5	2	
Mn	55	45	1	He	1.302	6.5	5007	4.6	2	
Fe	56	45	1	He	26.098	12.3	131143	10.0	50	
Co	59	103	1	He	0.025	9.7	258	8.6	1	
Ni	60	103	1	He	0.039	25.3	164	12.9	2	
Cu	63	103	1	He	-0.202	-5.5	857	6.9	2	
Zn	66	103	1	He	0.479	13.8	1269	6.8	20	
As	75	103	1	He	-0.013	-249.6	152	16.2	2	
Se	78	103	1	He	0.198	41.6	37	14.6	2	
Sr	88	103	1	He	0.005	92.4	138	14.2	10	
Mo	95	103	1	He	0.615	24.7	2061	17.1	2	
Ag	107	103	1	He	0.005	73.8	64	43.1	0.2	
Cd	111	103	1	He	0.020	180.3	726	6.4	0.2	
Sn	118	115	1	He	0.282	44.2	1678	24.3	10	
Sb	123	115	1	He	0.084	39.1	1073	10.6	1	
Ba	137	115	1	He	0.032	35.9	56	28.4	5	
W	182	165	1	He	0.812	10.6	11001	8.6	10	
Tl	205	209	1	He	0.036	13.0	1248	8.2	0.5	
Pb	208	209	1	He	0.026	2.0	1683	1.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1269006	1.86	1803797	70.35	30	120	
Sc	45	1	He	447049	1.88	574766	77.78	30	120	
Sc	45	2	NoGas	3588925	0.94	4296857	83.52	30	120	
Rh	103	1	He	1357847	0.70	1652712	82.16	30	120	
In	115	1	He	744739	0.24	852389	87.37	30	120	
Tb	159	1	He	2293378	1.16	2425956	94.54	30	120	
Ho	165	1	He	2335119	0.51	2452680	95.21	30	120	
Bi	209	1	He	1740382	0.94	1810473	96.13	30	120	

Protocol: Hg7470A



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.0263	-.0263	-111	0	-111				
02	.20000	.1870	-.0130	758	0%	758				
03	.50000	.5047	.0047	2052	0%	2052				
04	1.0000	1.011	.0110	4114	0%	4114				
05	5.0000	5.050	.0501	20565	0%	20565				
06	10.000	9.973	-.0265	40619	0%	40618				
07										
08										
09										
10										

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 08:42:19 14 Apr 15 HG

Hg .0000 ppb -111

*** Standard: 2 Rep: 1 Seq: 2 08:44:36 14 Apr 15 HG

Hg .2000 ppb 758

*** Standard: 3 Rep: 1 Seq: 3 08:46:03 14 Apr 15 HG

Hg .5000 ppb 2052

*** Standard: 4 Rep: 1 Seq: 4 08:48:03 14 Apr 15 HG

Hg 1.000 ppb 4114

*** Standard: 5 Rep: 1 Seq: 5 08:50:26 14 Apr 15 HG

Hg 5.000 ppb 20565

*** Standard: 6 Rep: 1 Seq: 6 08:52:38 14 Apr 15 HG

Hg 10.00 ppb 40618

*** Check Standard: 2 Ck2ICV Seq: 7 08:55:50 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.23	4.961	5.000	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 8 08:57:23 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	-.0042	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 9 08:58:54 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.1	.2062	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 10 10:06:43 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.88	4.944	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 11 10:08:32 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0100	.2000	ppb	.0000

*** Sample ID: Seq: 12 10:09:56 14 Apr 15 HG
mb 240-176143/1-a
Hg .0211 ppb .0000 .0211

*** Sample ID: Seq: 13 10:11:26 14 Apr 15 HG
lcs 240-176143/2-a
Hg 4.757 ppb .0000 4.757

*** Sample ID: Seq: 14 10:13:07 14 Apr 15 HG
240-49214-d-5-d
Hg .0147 ppb .0000 .0147

*** Sample ID: Seq: 15 10:14:28 14 Apr 15 HG
240-49214-d-5-e ms
Hg .9523 ppb .0000 .9523

*** Sample ID: Seq: 16 10:16:08 14 Apr 15 HG
240-49214-d-5-f msd
Hg .9651 ppb .0000 .9651

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 17	10:17:42 14 Apr 15	HG		
				240-49213-k-1-b				
Hg	.0181	ppb	.0000	.0181				
*** Sample ID:				Seq: 18	10:19:07 14 Apr 15	HG		
				240-49213-l-1-b				
Hg	.0233	ppb	.0000	.0233				
*** Sample ID:				Seq: 19	10:20:43 14 Apr 15	HG		
				240-49213-l-3-b				
Hg	.0181	ppb	.0000	.0181				
*** Sample ID:				Seq: 20	10:22:04 14 Apr 15	HG		
				240-49213-n-3-b				
Hg	.0208	ppb	.0000	.0208				
*** Sample ID:				Seq: 21	10:24:06 14 Apr 15	HG		
				240-49213-j-5-b				
Hg	.0321	ppb	.0000	.0321				

*** Check Standard: 6 Ck6CCV Seq: 22 10:25:27 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.09	4.855	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 23 10:26:48 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0047	.2000	ppb	.0000

*** Sample ID:				Seq: 24	10:28:39 14 Apr 15	HG		
				240-49213-k-5-b				
Hg	.0243	ppb	.0000	.0243				
*** Sample ID:				Seq: 25	10:30:01 14 Apr 15	HG		
				240-49213-m-7-b				
Hg	.0284	ppb	.0000	.0284				
*** Sample ID:				Seq: 26	10:31:44 14 Apr 15	HG		
				240-49213-n-7-b				
Hg	.0255	ppb	.0000	.0255				
*** Sample ID:				Seq: 27	10:33:10 14 Apr 15	HG		
				240-49213-k-9-b				
Hg	.0287	ppb	.0000	.0287				
*** Sample ID:				Seq: 28	10:34:32 14 Apr 15	HG		
				240-49213-l-9-b				
Hg	.0208	ppb	.0000	.0208				
*** Sample ID:				Seq: 29	10:35:58 14 Apr 15	HG		
				240-49213-f-11-b				
Hg	.0233	ppb	.0000	.0233				
*** Sample ID:				Seq: 30	10:37:19 14 Apr 15	HG		
				240-49214-b-1-b				
Hg	.0233	ppb	.0000	.0233				
*** Sample ID:				Seq: 31	10:38:40 14 Apr 15	HG		
				240-49214-b-2-b				
Hg	.0196	ppb	.0000	.0196				
*** Sample ID:				Seq: 32	10:40:07 14 Apr 15	HG		
				240-49214-b-3-b				
Hg	.0196	ppb	.0000	.0196				

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 33 10:41:44 14 Apr 15 HG
240-49214-b-4-b
Hg .0154 ppb .0000 .0154

*** Check Standard: 6 Ck6CCV Seq: 34 10:43:08 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.71	4.835	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 35 10:44:28 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0096	.2000	ppb	.0000

*** Sample ID: Seq: 36 10:46:30 14 Apr 15 HG
240-49224-f-1-b
Hg .0166 ppb .0000 .0166

*** Sample ID: Seq: 37 10:47:52 14 Apr 15 HG
240-49224-f-2-b
Hg .0245 ppb .0000 .0245

*** Sample ID: Seq: 38 10:49:57 14 Apr 15 HG
240-49130-a-2-a@10
Hg 2.476 ppb .0000 2.476

*** Sample ID: Seq: 39 10:51:28 14 Apr 15 HG
240-49130-a2b du@10
Hg 2.465 ppb .0000 2.465

*** Sample ID: Seq: 40 10:53:01 14 Apr 15 HG
240-49130-a2c ms@10
Hg 2.598 ppb .0000 2.598

*** Sample ID: Seq: 41 10:54:26 14 Apr 15 HG
mb 240-176162/1-a
Hg .0144 ppb .0000 .0144

*** Sample ID: Seq: 42 10:55:57 14 Apr 15 HG
lcs 240-176162/2-a
Hg 4.665 ppb .0000 4.665

*** Sample ID: Seq: 43 10:57:29 14 Apr 15 HG
240-49209-i-2-d
Hg .0120 ppb .0000 .0120

*** Sample ID: Seq: 44 10:59:14 14 Apr 15 HG
240-49209-i-2-e ms
Hg .9744 ppb .0000 .9744

*** Sample ID: Seq: 45 11:00:38 14 Apr 15 HG
240-49209-i-2-f msd
Hg .9725 ppb .0000 .9725

*** Check Standard: 6 Ck6CCV Seq: 46 11:02:10 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.14	4.807	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 47 11:03:41 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0056	.2000	ppb	.0000

*** Sample ID: Seq: 48 11:05:17 14 Apr 15 HG
190-6989-c-1-b
Hg .0262 ppb .0000 .0262

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 49 11:07:03 14 Apr 15 HG
240-49186-b-1-b
Hg .0311 ppb .0000 .0311

*** Sample ID: Seq: 50 11:09:00 14 Apr 15 HG
240-49209-i-5-b
Hg .0225 ppb .0000 .0225

*** Sample ID: Seq: 51 11:10:41 14 Apr 15 HG
240-49209-i-6-b
Hg .0235 ppb .0000 .0235

*** Sample ID: Seq: 52 11:12:02 14 Apr 15 HG
240-49209-j-8-b
Hg .0228 ppb .0000 .0228

*** Sample ID: Seq: 53 11:13:26 14 Apr 15 HG
190-6997-c-12-a
Hg .0275 ppb .0000 .0275

*** Sample ID: Seq: 54 11:15:09 14 Apr 15 HG
240-49236-d-3-d
Hg .0206 ppb .0000 .0206

*** Sample ID: Seq: 55 11:16:40 14 Apr 15 HG
240-49236-a-4-b
Hg .0115 ppb .0000 .0115

*** Sample ID: Seq: 56 11:18:23 14 Apr 15 HG
240-49267-j-1-d
Hg .0358 ppb .0000 .0358

*** Sample ID: Seq: 57 11:19:44 14 Apr 15 HG
240-49267-k-1-b
Hg .0213 ppb .0000 .0213

*** Check Standard: 6 Ck6CCV Seq: 58 11:21:20 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.03	4.751	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 59 11:24:22 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0115	.2000	ppb	.0000

*** Sample ID: Seq: 60 11:25:43 14 Apr 15 HG
240-49267-j-3-b
Hg .0338 ppb .0000 .0338

*** Sample ID: Seq: 61 11:27:09 14 Apr 15 HG
240-49267-k-3-b
Hg .0245 ppb .0000 .0245

*** Check Standard: 4 Ck4CRA\MRL Seq: 62 11:28:50 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.78	.1996	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 63 11:30:24 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.19	4.759	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 64 11:31:45 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0025	.2000	ppb	.0000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 65 11:40:46 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.57	4.878	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 66 11:42:06 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0023	.2000	ppb	.0000

*** Sample ID: Seq: 67 11:43:49 14 Apr 15 HG
mb 240-175944/1-a

Hg	.0144	ppb	.0000	.0144

*** Sample ID: Seq: 68 11:45:31 14 Apr 15 HG
lcs 240-175944/2-a

Hg	4.824	ppb	.0000	4.824

*** Check Standard: 6 Ck6CCV Seq: 69 11:47:15 14 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.81	4.841	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 70 11:49:15 14 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0272	.2000	ppb	.0000

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: (7470A / 245.1) 7471 Batch: 176385

Run Date: 4-14-15 Analyst: Barb Instrument: H1

Review Items				
A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?		✓		✓
4. MSD or DU run at required frequency and RPD within SOP limits?		✓		✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: Barb Date/Time: 4-14-15 Reviewed from 8:42 to 11:49

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: Amanda Date/Time: 4/14/15 Reviewed from 8:42 to 11:49

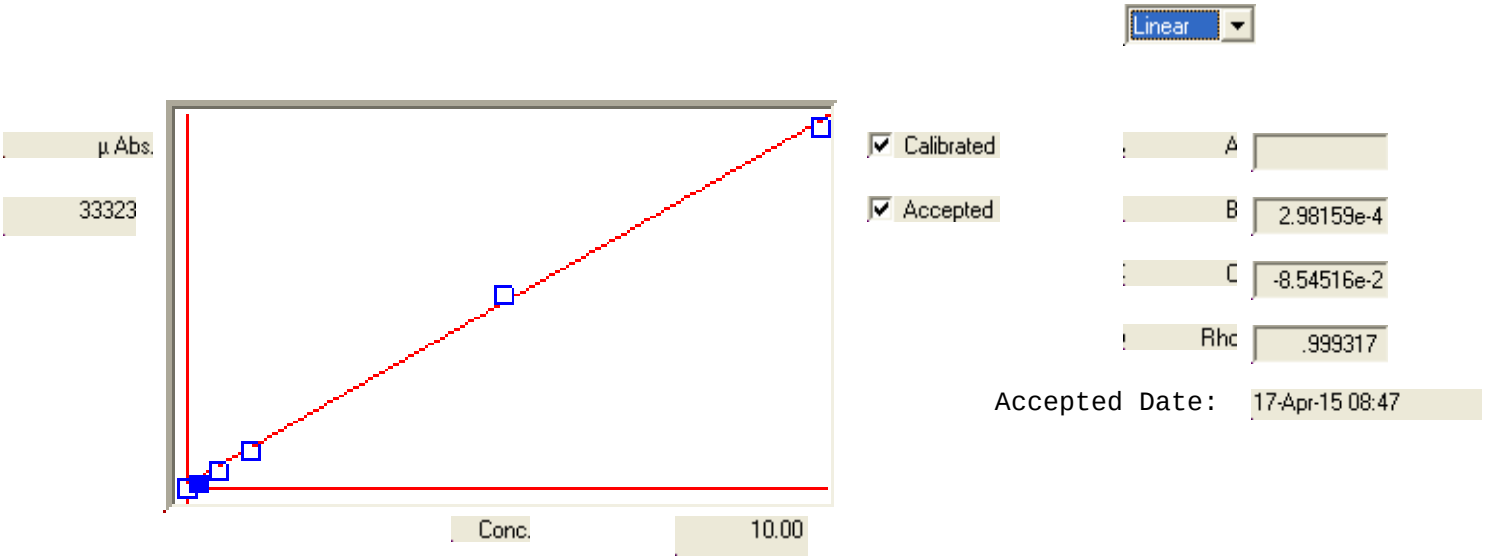
Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4-14-15 Curve Time 11:08-1:08 DILUTION H20 00006

Revised 11/29/2012

Protocol: Hg7470A



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.0494	-.0494	122	0	121				
02	.20000	.1516	-.0484	795	0%	795				
03	.50000	.4638	-.0362	1843	0%	1842				
04	1.0000	1.000	.0004	3642	0%	3642				
05	5.0000	5.283	.2835	18008	0%	18007				
06	10.000	9.850	-.1499	33324	0%	33323				
07										
08										
09										
10										

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	

*** Standard: 1 Rep: 1 Seq: 1 08:39:39 17 Apr 15 HG

Hg .0000 ppb 121

*** Standard: 2 Rep: 1 Seq: 2 08:41:26 17 Apr 15 HG

Hg .2000 ppb 795

*** Standard: 3 Rep: 1 Seq: 3 08:42:48 17 Apr 15 HG

Hg .5000 ppb 1842

*** Standard: 4 Rep: 1 Seq: 4 08:44:10 17 Apr 15 HG

Hg 1.000 ppb 3642

*** Standard: 5 Rep: 1 Seq: 5 08:45:33 17 Apr 15 HG

Hg 5.000 ppb 18007

*** Standard: 6 Rep: 1 Seq: 6 08:46:56 17 Apr 15 HG

Hg 10.00 ppb 33323

*** Check Standard: 2 Ck2ICV Seq: 7 08:48:34 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.2	5.210	5.000	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 8 08:50:06 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	-.0881	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 9 08:51:57 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		71.62	.1432	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 10 09:00:21 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.2	5.310	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 11 09:01:51 17 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0884	.2000	ppb	.0000

*** Sample ID: Seq: 12 09:03:23 17 Apr 15 HG
mb 240-176686/1-a

Hg	-.0574	ppb	.0000	-.0574	

*** Sample ID: Seq: 13 09:05:02 17 Apr 15 HG
lcs 240-176686/2-a

Hg	5.363	ppb	.0000	5.363	

*** Sample ID: Seq: 14 09:06:35 17 Apr 15 HG
240-49325-a-1-a

Hg	10.26 H	ppb	.0000	10.26	

*** Sample ID: Seq: 15 09:08:26 17 Apr 15 HG
240-49325-a-1-b ms

Hg	10.67 H	ppb	.0000	10.67	

*** Sample ID: Seq: 16 09:09:49 17 Apr 15 HG
240-49325-a-1-c msd

Hg	10.19 H	ppb	.0000	10.19	

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 17 09:11:22 17 Apr 15 HG
240-49392-d-1-b
Hg -.0318 ppb .0000 -.0318

*** Sample ID: Seq: 18 09:12:43 17 Apr 15 HG
240-49353-d-1-b
Hg -.0530 ppb .0000 -.0530

*** Sample ID: Seq: 19 09:14:05 17 Apr 15 HG
240-49353-d-2-b
Hg -.0628 ppb .0000 -.0628

*** Sample ID: Seq: 20 09:15:28 17 Apr 15 HG
240-49353-d-3-b
Hg -.0535 ppb .0000 -.0535

*** Sample ID: Seq: 21 09:17:40 17 Apr 15 HG
240-49353-d-4-b
Hg -.0568 ppb .0000 -.0568

*** Check Standard: 6 Ck6CCV Seq: 22 09:19:21 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.2	5.312	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 23 09:21:02 17 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0661	.2000	ppb	.0000

*** Sample ID: Seq: 24 09:22:24 17 Apr 15 HG
240-49353-d-5-b
Hg -.0622 ppb .0000 -.0622

*** Sample ID: Seq: 25 09:23:57 17 Apr 15 HG
240-49353-d-6-b
Hg -.0625 ppb .0000 -.0625

*** Sample ID: Seq: 26 09:25:21 17 Apr 15 HG
240-49367-b-1-b
Hg -.0351 ppb .0000 -.0351

*** Sample ID: Seq: 27 09:26:42 17 Apr 15 HG
240-49325-a-2-b
Hg -.0231 ppb .0000 -.0231

*** Sample ID: Seq: 28 09:28:53 17 Apr 15 HG
240-49348-c-1-b
Hg -.0565 ppb .0000 -.0565

*** Sample ID: Seq: 29 09:30:16 17 Apr 15 HG
240-49383-a-1-b
Hg -.0556 ppb .0000 -.0556

*** Sample ID: Seq: 30 09:31:37 17 Apr 15 HG
240-49384-a-1-d
Hg -.0509 ppb .0000 -.0509

*** Sample ID: Seq: 31 09:33:19 17 Apr 15 HG
240-49386-d-1-b
Hg -.0589 ppb .0000 -.0589

*** Sample ID: Seq: 32 09:34:53 17 Apr 15 HG
240-49391-d-1-b
Hg -.0664 ppb .0000 -.0664

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 33 09:36:55 17 Apr 15 HG
240-49391-d-2-b

Hg	-.0583	ppb	.0000	-.0583				

*** Check Standard: 6 Ck6CCV Seq: 34 09:38:25 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.6	5.281	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 35 09:39:57 17 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0670	.2000	ppb	.0000

*** Sample ID: Seq: 36 09:41:19 17 Apr 15 HG
240-49391-d-3-b

Hg	-.0679	ppb	.0000	-.0679				

*** Sample ID: Seq: 37 09:43:02 17 Apr 15 HG
240-49391-d-4-b

Hg	-.0735	ppb	.0000	-.0735				

*** Sample ID: Seq: 38 09:44:23 17 Apr 15 HG
240-49391-d-5-b

Hg	-.0571	ppb	.0000	-.0571				

*** Check Standard: 6 Ck6CCV Seq: 39 09:46:17 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.2	5.259	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 40 09:47:49 17 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0673	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 41 10:31:32 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		107.7	5.383	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 42 10:32:55 17 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0944	.2000	ppb	.0000

*** Sample ID: Seq: 43 10:35:45 17 Apr 15 HG
240-49325-a-1-a@2

Hg	5.311	ppb	.0000	5.311				

*** Sample ID: Seq: 44 10:37:20 17 Apr 15 HG
240-49325-a-1-b ms@2

Hg	5.622	ppb	.0000	5.622				

*** Sample ID: Seq: 45 10:38:45 17 Apr 15 HG
240-49325-a1c msd@2

Hg	5.346	ppb	.0000	5.346				

*** Sample ID: Seq: 46 10:40:09 17 Apr 15 HG
lb 240-176620/1-c

Hg	-.1004	ppb	.0000	-.1004				

*** Sample ID: Seq: 47 10:41:30 17 Apr 15 HG
mb 240-176701/2-a

Hg	-.0616	ppb	.0000	-.0616				

*** Sample ID: Seq: 48 10:42:50 17 Apr 15 HG
lcs 240-176701/3-a

Hg	5.005	ppb	.0000	5.005				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 49 10:44:12 17 Apr 15 HG
240-49236-b-1-n
Hg -.0804 ppb .0000 -.0804

*** Sample ID: Seq: 50 10:45:45 17 Apr 15 HG
240-49236-b-1-o du
Hg -.0586 ppb .0000 -.0586

*** Sample ID: Seq: 51 10:47:08 17 Apr 15 HG
240-49236-b-1-p ms
Hg 5.312 ppb .0000 5.312

*** Sample ID: Seq: 52 10:49:11 17 Apr 15 HG
240-49236-f-2-g
Hg -.0115 ppb .0000 -.0115

*** Check Standard: 6 Ck6CCV Seq: 53 10:50:45 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.6	5.282	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 54 10:52:10 17 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.1033	.2000	ppb	.0000

*** Sample ID: Seq: 55 10:53:34 17 Apr 15 HG
240-49316-g-1-i
Hg .0302 ppb .0000 .0302

*** Sample ID: Seq: 56 10:55:08 17 Apr 15 HG
190-7021-a-2-g
Hg .2834 ppb .0000 .2834

*** Sample ID: Seq: 57 10:56:31 17 Apr 15 HG
240-49161-a-1-f
Hg -.0583 ppb .0000 -.0583

*** Sample ID: Seq: 58 10:58:03 17 Apr 15 HG
240-49222-a-2-d
Hg -.0333 ppb .0000 -.0333

*** Sample ID: Seq: 59 10:59:46 17 Apr 15 HG
240-49222-a-3-f
Hg -.0404 ppb .0000 -.0404

*** Sample ID: Seq: 60 11:01:10 17 Apr 15 HG
240-49222-a-6-f
Hg -.0741 ppb .0000 -.0741

*** Sample ID: Seq: 61 11:02:51 17 Apr 15 HG
240-49256-c-1-k
Hg -.0619 ppb .0000 -.0619

*** Check Standard: 4 Ck4CRA\MRL Seq: 62 11:04:13 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.1	.2121	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 63 11:05:40 17 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.1	5.257	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 64 11:07:00 17 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0673	.2000	ppb	.0000

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: (7470A / 245.1) 7471 Batch: 176894

Run Date: 4-17-15 Analyst: B. Waepole Instrument: H1

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?		✓		✓
4. MSD or DU run at required frequency and RPD within SOP limits?		✓		✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: B. Waepole Date/Time: 4-17-15 Reviewed from 8:39 to 11:07

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: [signature] Date/Time: 04/17/2015 Reviewed from 08:39 to 11:07

Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4-16-15 Curve Time 11:28-1:28 DILUTION H20 00006

Revised 11/29/2012

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176620 Batch Start Date: 04/15/15 17:00 Batch Analyst: Jones, Diane

Batch Method: 1311 Batch End Date: 04/16/15 09:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXpH(0-14) 00006	EXTCLPBUFF1 00469	EXTCLPFILTERS 00023	EXTCLPHCLW 00044	AnalysisComment	
LB 240-176620/1		1311, 3010A, 6010B		1 mL	1 mL	1	1 mL		
240-49236-B-1	079SB-0383-0001-IDW	1311, 3010A, 6010B	P	1 mL	1 mL	1	1 mL	MS for Herb	
240-49236-F-2	079SB-0384-0001-IDW	1311, 3010A, 6010B	P	1 mL	1 mL	1	1 mL	Filter only H2O	

Batch Notes	
Tumbler Rotations per Minute	A, E = 31rpm

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176697 Batch Start Date: 04/16/15 09:57 Batch Analyst: Lecorchick, Willis A

Batch Method: 3010A Batch End Date: 04/16/15 17:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MT1to1HCL 00049	MTAGSPIKEW 00047	MTICP1 00039	MTICP2A 00048
LB 240-176620/1-A		3010A, 6010B		50 mL	50 mL	5 mL			
MB 240-176697/2		3010A, 6010B		50 mL	50 mL	5 mL			
LCS 240-176697/3		3010A, 6010B		50 mL	50 mL	5 mL	1 mL	1 mL	1 mL
240-49236-B-1-C	079SB-0383-0001-IDW	3010A, 6010B	P	50 mL	50 mL	5 mL			
240-49236-B-1-C DU	079SB-0383-0001-IDW	3010A, 6010B	P	50 mL	50 mL	5 mL			
240-49236-B-1-C MS	079SB-0383-0001-IDW	3010A, 6010B	P	50 mL	50 mL	5 mL			1 mL
240-49236-F-2-A	079SB-0384-0001-IDW	3010A, 6010B	P	50 mL	50 mL	5 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTNONRCRA+ODD 00002	MTRCRA 00009	MTTMHNO3 00054			
LB 240-176620/1-A		3010A, 6010B				3 mL			
MB 240-176697/2		3010A, 6010B				3 mL			
LCS 240-176697/3		3010A, 6010B				3 mL			
240-49236-B-1-C	079SB-0383-0001-IDW	3010A, 6010B	P			3 mL			
240-49236-B-1-C DU	079SB-0383-0001-IDW	3010A, 6010B	P			3 mL			
240-49236-B-1-C MS	079SB-0383-0001-IDW	3010A, 6010B	P	1 mL	0.5 mL	3 mL			
240-49236-F-2-A	079SB-0384-0001-IDW	3010A, 6010B	P			3 mL			

Batch Notes	
Filter Paper Lot Number	9605292
Hot Block ID number	HB0
Pipette ID	383363-383364-66; 59L
Digestion Tube/Cup Lot #	1408268

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176697 Batch Start Date: 04/16/15 09:57 Batch Analyst: Lecorchick, Willis A

Batch Method: 3010A Batch End Date: 04/16/15 17:57

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176157 Batch Start Date: 04/13/15 10:08 Batch Analyst: Lecorchick, Willis A

Batch Method: 3005A Batch End Date: 04/13/15 18:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTICPMS2 00020	MTICPMSA 00021	MTICPMSA 00022	MTICPMSB 00021
MB 240-176157/1		3005A, 6020		50 mL	50 mL				
LCS 240-176157/2		3005A, 6020		50 mL	50 mL	0.5 mL		0.5 mL	
240-49236-D-3	079SB-0385-0001-SW	3005A, 6020	R	50 mL	50 mL				
240-49236-D-3 DU	079SB-0385-0001-SW	3005A, 6020	R	50 mL	50 mL				
240-49236-D-3 MS	079SB-0385-0001-SW	3005A, 6020	R	50 mL	50 mL	0.5 mL	0.5 mL		0.5 mL
240-49236-A-4	079SB-0386-0001-RB	3005A, 6020	R	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTICPMSB 00022	MTTMHCL 00062	MTTMHNO3 00053			
MB 240-176157/1		3005A, 6020			2.5 mL	1 mL			
LCS 240-176157/2		3005A, 6020		0.5 mL	2.5 mL	1 mL			
240-49236-D-3	079SB-0385-0001-SW	3005A, 6020	R		2.5 mL	1 mL			
240-49236-D-3 DU	079SB-0385-0001-SW	3005A, 6020	R		2.5 mL	1 mL			
240-49236-D-3 MS	079SB-0385-0001-SW	3005A, 6020	R		2.5 mL	1 mL			
240-49236-A-4	079SB-0386-0001-RB	3005A, 6020	R		2.5 mL	1 mL			

Batch Notes	
Filter Paper Lot Number	9605292
Hot Block ID number	HB4
Pipette ID	59L
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176162 Batch Start Date: 04/13/15 14:00 Batch Analyst: Lecorchick, Willis A

Batch Method: 7470A Batch End Date: 04/13/15 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00021	MTH2S04 00021	MTHGCALW 00879	MTKMN04W 00081
MB 240-176162/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-176162/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-49236-D-3	079SB-0385-0001-SW	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-49236-A-4	079SB-0386-0001-RB	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00053					
MB 240-176162/1		7470A, 7470A		1.25 mL					
LCS 240-176162/2		7470A, 7470A		1.25 mL					
240-49236-D-3	079SB-0385-0001-SW	7470A, 7470A	T	1.25 mL					
240-49236-A-4	079SB-0386-0001-RB	7470A, 7470A	T	1.25 mL					

Batch Notes	
Hot Block ID number	C1
Pipette ID	59L-64
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176216 Batch Start Date: 04/13/15 11:08 Batch Analyst: Walpole, Barbara

Batch Method: 7470A Batch End Date: 04/13/15 13:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00021	MTH2S04 00021	MTHGCALW 00879	MTHgStd 00016
ICV 240-176216/7		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		0.25 mL
ICB 240-176216/8		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		
CRA 240-176216/9		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	0.1 mL	
CCV 240-176216/10		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	
CCB 240-176216/11		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00081	MTTMHNO3 00053				
ICV 240-176216/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-176216/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-176216/9		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-176216/10		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-176216/11		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID number	C1
Pipette ID	59L-64
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176620 Batch Start Date: 04/15/15 17:00 Batch Analyst: Jones, Diane

Batch Method: 1311 Batch End Date: 04/16/15 09:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXpH(0-14) 00006	EXTCLPBUFF1 00469	EXTCLPFILTERS 00023	EXTCLPHCLW 00044	AnalysisComment	
LB 240-176620/1		1311, 7470A, 7470A		1 mL	1 mL	1	1 mL		
240-49236-B-1	079SB-0383-0001-IDW	1311, 7470A, 7470A	P	1 mL	1 mL	1	1 mL	MS for Herb	
240-49236-F-2	079SB-0384-0001-IDW	1311, 7470A, 7470A	P	1 mL	1 mL	1	1 mL	Filter only H2O	

Batch Notes	
Tumbler Rotations per Minute	A, E = 31rpm

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176701 Batch Start Date: 04/16/15 14:00 Batch Analyst: Lecorchick, Willis A

Batch Method: 7470A Batch End Date: 04/16/15 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00021	MTH2S04 00021	MTHGCALW 00883	MTKMN04W 00081
LB 240-176620/1-A		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
MB 240-176701/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-176701/3		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-49236-B-1-C	079SB-0383-0001-IDW	7470A, 7470A	P	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-49236-B-1-C DU	079SB-0383-0001-IDW	7470A, 7470A	P	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-49236-B-1-C MS	079SB-0383-0001-IDW	7470A, 7470A	P	50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-49236-F-2-A	079SB-0384-0001-IDW	7470A, 7470A	P	50 mL	50 mL	4 mL	2.5 mL		7.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00054					
LB 240-176620/1-A		7470A, 7470A		1.25 mL					
MB 240-176701/2		7470A, 7470A		1.25 mL					
LCS 240-176701/3		7470A, 7470A		1.25 mL					
240-49236-B-1-C	079SB-0383-0001-IDW	7470A, 7470A	P	1.25 mL					
240-49236-B-1-C DU	079SB-0383-0001-IDW	7470A, 7470A	P	1.25 mL					
240-49236-B-1-C MS	079SB-0383-0001-IDW	7470A, 7470A	P	1.25 mL					
240-49236-F-2-A	079SB-0384-0001-IDW	7470A, 7470A	P	1.25 mL					

Batch Notes	
Hot Block ID number	B1
Pipette ID	383366, 59L-64
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description
P	TCLP

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176762 Batch Start Date: 04/16/15 11:28 Batch Analyst: Walpole, Barbara

Batch Method: 7470A Batch End Date: 04/16/15 13:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00021	MTH2S04 00021	MTHGCALW 00883	MTHgStd 00016
ICV 240-176762/7		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		0.25 mL
ICB 240-176762/8		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		
CRA 240-176762/9		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	0.1 mL	
CCV 240-176762/10		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	
CCB 240-176762/11		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00081	MTTMHNO3 00054				
ICV 240-176762/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-176762/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-176762/9		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-176762/10		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-176762/11		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID number	C1
Pipette ID	52-59L-64
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG No.:

Project: Ravenna Army Ammunition Plant

Client Sample ID	Lab Sample ID
079SB-0383-0001-IDW	240-49236-1
079SB-0384-0001-IDW	240-49236-2

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-49236-1

SDG No.:

Project: Ravenna Army Ammunition Plant

Client Sample ID	Lab Sample ID
079SB-0385-0001-SW	240-49236-3

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0383-0001-IDW
Lab Sample ID: 240-49236-1
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/10/2015 08:00
Reporting Basis: DRY
Date Received: 04/10/2015 14:21
% Solids: 84.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Sulfide	35	36	35	26	mg/Kg	U		1	9034
Cyanide, Total	0.55	0.55	0.55	0.33	mg/Kg	U		1	9012A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0383-0001-IDW
Lab Sample ID: 240-49236-1
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/10/2015 08:00
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Flashpoint	>200	1.00	1.00	1.00	Degrees F			1	1010
Corrosivity	6.26	0.100	0.100	0.100	SU			1	9045C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0384-0001-IDW
Lab Sample ID: 240-49236-2
Lab Name: TestAmerica Canton
Job No.: 240-49236-1
SDG ID.:
Matrix: Water
Date Sampled: 04/10/2015 08:30
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Flashpoint	>200	1.00	1.00	1.00	Degrees F			1	1010
Sulfide	3.0	3.0	3.0	0.94	mg/L	U		1	9034
Corrosivity	7.22	0.100	0.100	0.100	SU		H	1	9040C
Cyanide, Total	0.0050	0.010	0.0050	0.0020	mg/L	U		1	9012A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0385-0001-SW
Lab Sample ID: 240-49236-3
Lab Name: TestAmerica Sacramento
Job No.: 240-49236-1
SDG ID.:
Matrix: Water
Date Sampled: 04/10/2015 08:45
Reporting Basis: WET
Date Received: 04/10/2015 14:21

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	1.0	2.0	1.0	0.48	mg/L	U		1	WS-WC-0050

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Analyst: SEM Batch Start Date: 04/13/2015

Reporting Units: SU Analytical Batch No.: 176141

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:22	Corrosivity	7.000	7.00	100	99-101		WCPH7_00073
11	CCV	11:58	Corrosivity	6.960	7.00	99	99-101		WCPH7_00073

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Analyst: SEM Batch Start Date: 04/13/2015

Reporting Units: SU Analytical Batch No.: 176141

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
21	CCV	14:35	Corrosivity	6.960	7.00	99	99-101		WCPH7_00073

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Analyst: SEM Batch Start Date: 04/13/2015

Reporting Units: mg/L Analytical Batch No.: 176246

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:24	Cyanide, Total	0.0982	0.100	98	90-110		WCCN.1CCV1_00198
2	CCB	14:24	Cyanide, Total	0.0050				U	
13	CCV	14:29	Cyanide, Total	0.0977	0.100	98	90-110		WCCN.1CCV1_00198
14	CCB	14:29	Cyanide, Total	0.0050				U	
23	CCV	14:31	Cyanide, Total	0.0980	0.100	98	90-110		WCCN.1CCV1_00198
24	CCB	14:31	Cyanide, Total	0.0050				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Analyst: SEM Batch Start Date: 04/23/2015

Reporting Units: mg/L Analytical Batch No.: 177730

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:31	Cyanide, Total	0.0969	0.100	97	90-110		WCCN.1CCV1_00199
2	CCB	14:31	Cyanide, Total	0.0050				U	
12	CCV	14:37	Cyanide, Total	0.0966	0.100	97	90-110		WCCN.1CCV1_00199
13	CCB	14:37	Cyanide, Total	0.0050				U	
24	CCV	14:42	Cyanide, Total	0.0973	0.100	97	90-110		WCCN.1CCV1_00199
25	CCB	14:42	Cyanide, Total	0.0050				U	
41	CCV	16:16	Cyanide, Total	0.0985	0.100	98	90-110		WCCN.1CCV1_00199
42	CCB	16:16	Cyanide, Total	0.0050				U	
44	CCV	16:18	Cyanide, Total	0.101	0.100	101	90-110		WCCN.1CCV1_00199
45	CCB	16:18	Cyanide, Total	0.0050				U	
50	CCV	16:57	Cyanide, Total	0.107	0.100	107	90-110		WCCN.1CCV1_00199
51	CCB	16:57	Cyanide, Total	0.0050				U	
53	CCV	16:58	Cyanide, Total	0.0990	0.100	99	90-110		WCCN.1CCV1_00199
54	CCB	16:58	Cyanide, Total	0.0050				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Analyst: JCB Batch Start Date: 04/21/2015

Reporting Units: mg/L Analytical Batch No.: 71741

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICV	14:35	Nitrocellulose	8.12	8.33	97	90-110		WC-353.2-ICV_00046
10	ICB	14:37	Nitrocellulose	1.0				U	
22	CCV	15:01	Nitrocellulose	8.35	8.33	100	90-110		WC-353.2-L4_00042
23	CCB	15:03	Nitrocellulose	1.0				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 176246	Date: 04/13/2015 14:24	Prep Batch: 176155	Date: 04/13/2015 09:56				
9012A	MB 240-176155/1-A	Cyanide, Total	0.50	U	mg/Kg	0.50	1
Batch ID: 177730	Date: 04/23/2015 14:31	Prep Batch: 177636	Date: 04/23/2015 11:18				
9012A	MB 240-177636/1-A	Cyanide, Total	0.0050	U	mg/L	0.010	1
Batch ID: 176391	Date: 04/14/2015 12:28	Prep Batch: 176308	Date: 04/14/2015 08:03				
9034	MB 240-176308/1-A	Sulfide	29	U	mg/Kg	30	1
Batch ID: 176391	Date: 04/14/2015 13:05	Prep Batch: 176308	Date: 04/14/2015 08:03				
9034	MB 240-176308/14-A	Sulfide	3.0	U	mg/L	3.0	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 71741	Date: 04/21/2015 14:49	Prep Batch: 71630	Date: 04/21/2015 06:08				
WS-WC-0050	MB 320-71147/1-B	Nitrocellulose	1.0	U	mg/L	2.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 176391	Date: 04/14/2015 13:14		Prep Batch: 176308		Date: 04/14/2015 08:03						
9034	240-49236-2	Sulfide	3.0	U	mg/L						
9034	240-49236-2 MS	Sulfide	7.39		mg/L	8.86	83	27-124			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 176391	Date: 04/14/2015 13:17		Prep Batch: 176308		Date: 04/14/2015 08:03						
9034	240-49236-2 MSD	Sulfide	7.00		mg/L	8.86	79	27-124	5	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 71741	Date: 04/21/2015 14:55		Prep Batch: 71630		Date: 04/21/2015 06:08						
WS-WC-0050	240-49236-3	Nitrocellulose	1.0	U	mg/L						
WS-WC-0050	240-49236-3 MS	Nitrocellulose	3.89		mg/L	5.07	77	26-144			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 71741	Date: 04/21/2015 14:57		Prep Batch: 71630		Date: 04/21/2015 06:08						
WS-WC-0050	240-49236-3 MSD	Nitrocellulose	4.57		mg/L	5.07	90	26-144	16	45	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 176597 Date: 04/15/2015 06:28								
1010	079SB-0384-0001-ID W	240-49236-2	Flashpoint	>200	Degrees F			
1010	079SB-0384-0001-ID W	240-49236-2 DU	Flashpoint	>200	Degrees F	NC	20	
Batch ID: 176141 Date: 04/13/2015 12:30								
9045C	079SB-0383-0001-ID W	240-49236-1	Corrosivity	6.26	SU			
9045C	079SB-0383-0001-ID W	240-49236-1 DU	Corrosivity	6.490	SU	4	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 176597	Date: 04/15/2015 06:00										
						LCS Source: WCP-XYLENE_00016					
1010	LCS 240-176597/1	Flashpoint	83.00		Degrees F	81.0	102	97-103			
Batch ID: 176246	Date: 04/13/2015 14:24	Prep Batch: 176155	Date: 04/13/2015 09:56								
						LCS Source: WCERAPHEN0L_00019					
9012A	LCS 240-176155/2-A	Cyanide, Total	9.00		mg/Kg	9.21	98	68-123			
Batch ID: 176391	Date: 04/14/2015 12:31	Prep Batch: 176308	Date: 04/14/2015 08:03								
						LCS Source: WCSULFIDELCS_00843					
9034	LCS 240-176308/2-A	Sulfide	77.2		mg/Kg	87.9	88	70-130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 177730	Date: 04/23/2015 16:16		Prep Batch: 177636			Date: 04/23/2015 11:18					
						LCS Source: WCERAPHEN0L_00019					
9012A	LCS 240-177636/2-A	Cyanide, Total	0.0719		mg/L	0.0921	78	69-118			
Batch ID: 176391	Date: 04/14/2015 13:08		Prep Batch: 176308			Date: 04/14/2015 08:03					
						LCS Source: WCSULFIDELCS_00843					
9034	LCS 240-176308/15-A	Sulfide	7.39		mg/L	8.86	83	70-130			
Batch ID: 176141	Date: 04/13/2015 09:37										
						LCS Source: WCPHLCS_00010					
9040C	LCS 240-176141/2	Corrosivity	6.150		SU	6.15	100	97-103			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 177730 Date: 04/23/2015 16:57											
						LCS Source: WCCN.01MRL1_00184					
9012A	MRL 240-177730/52	Cyanide, Total	0.00964	J	mg/L	0.0100	96	70-130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 71741	Date: 04/21/2015 14:51		Prep Batch: 71630			Date: 04/21/2015 06:08					
						LCS Source: HPNCSP_00013					
WS-WC-0050	LCS 320-71147/2-B	Nitrocellulose	4.09		mg/L	5.07	81	26-144			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 71741	Date: 04/21/2015 14:39										
						LCS Source: WC-353.2-L1_00051					
WS-WC-0050	MRL 320-71741/11	Nitrocellulose	1.0	U	mg/L	0.417	108	70-130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: WHITEY

Method: 1010 LOQ Date: 01/28/2010 09:55

Analyte	Wavelength/ Mass	LOQ (Degrees F)	
Flashpoint		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: WHITEY

Method: 1010 XRL Date: 01/28/2010 09:55

Analyte	Wavelength/ Mass	XRL (Degrees F)	
Flashpoint		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: WHITEY

Method: 1010 LOQ Date: 01/28/2010 09:55

Analyte	Wavelength/ Mass	LOQ (Degrees F)	
Flashpoint		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: WHITEY

Method: 1010 XRL Date: 01/28/2010 09:55

Analyte	Wavelength/ Mass	XRL (Degrees F)	
Flashpoint		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9034 DL Date: 01/27/2010 11:58

Prep Method: 9030B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Sulfide		30	22

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9034 XMDL Date: 01/27/2010 11:59

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		3	0.94

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9034 DL Date: 01/27/2010 12:17

Prep Method: 9030B

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Sulfide		3	0.94

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9034 XMDL Date: 01/27/2010 12:18

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		3	0.94

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 9040C LOQ Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	LOQ (SU)	
Corrosivity		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 9040C XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
Corrosivity		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: Randolph

Method: 9045C LOQ Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	LOQ (SU)	
Corrosivity		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: Randolph

Method: 9045C XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
Corrosivity		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	XRL (mg/L)	
Percent Moisture		10	
Percent Solids		10	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: SAURON

Method: 9012A DL Date: 08/12/2014 16:12

Prep Method: 9012A

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Cyanide, Total		0.5	0.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Solid Instrument ID: SAURON

Method: 9012A XMDL Date: 08/12/2014 16:15

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: SAURON

Method: 9012A DL Date: 07/09/2014 11:00

Prep Method: 9012A

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: SAURON

Method: 9012A XMDL Date: 07/09/2014 11:01

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: FS4

Method: WS-WC-0050 DL Date: 03/15/2011 14:37

Prep Method: 353 (NCell-Hyd)

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Nitrocellulose		2	0.475

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-49236-1

SDG Number:

Matrix: Water Instrument ID: FS4

Method: WS-WC-0050 XMDL Date: 03/15/2011 14:36

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrocellulose		2	0.475

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No: 240-49236-1

SDG No.:

Instrument ID: FS4 Date: 07/31/2011 19:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Nitrocellulose		16.8	WS-WC-0050

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Prep Method: 9030B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-176308/1-A	04/14/2015 08:03	176308	4.97		50
LCS 240-176308/2-A	04/14/2015 08:03	176308	5.04		50
240-49236-1	04/14/2015 08:03	176308	4.98		50
MB 240-176308/14-A	04/14/2015 08:03	176308		50	50
LCS 240-176308/15-A	04/14/2015 08:03	176308		50	50
240-49236-2	04/14/2015 08:03	176308		50	50
240-49236-2 MS	04/14/2015 08:03	176308		50	50
240-49236-2 MSD	04/14/2015 08:03	176308		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Prep Method: 9012A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-176155/1-A	04/13/2015 09:56	176155	0.50		25
LCS 240-176155/2-A	04/13/2015 09:56	176155	0.50		25
240-49236-1	04/13/2015 09:56	176155	0.54		25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Prep Method: 9012A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-177636/1-A	04/23/2015 11:18	177636		50	25
LCS 240-177636/2-A	04/23/2015 11:18	177636		50	25
240-49236-2	04/23/2015 11:18	177636		50	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Prep Method: 353 (NCell-Hyd)

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 320-71147/1-B	04/21/2015 06:08	71630		50.00	40.00
LCS 320-71147/2-B	04/21/2015 06:08	71630		50.00	40.00
240-49236-3	04/21/2015 06:08	71630		50.00	40.00
240-49236-3 MS	04/21/2015 06:08	71630		50.00	40.00
240-49236-3 MSD	04/21/2015 06:08	71630		50.00	40.00

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: WHITEY Analysis Method: 1010

Start Date: 04/15/2015 06:00 End Date: 04/15/2015 13:11

Lab Sample Id	D/F	Type	Time	Analytes																									
				FP																									
LCS 240-176597/1	1	T	06:00	X																									
240-49236-2 DU	1	T	06:28	X																									
240-49236-2	1	T	06:57	X																									
ZZZZZZ			07:26																										
ZZZZZZ			07:55																										
ZZZZZZ			08:23																										
ZZZZZZ			08:52																										
ZZZZZZ			09:21																										
240-49236-1	1	T	09:50	X																									
ZZZZZZ			10:18																										
ZZZZZZ			10:47																										
ZZZZZZ			11:16																										
ZZZZZZ			11:45																										
ZZZZZZ			12:13																										
ZZZZZZ			12:42																										
ZZZZZZ			13:11																										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: 9034

Start Date: 04/14/2015 12:28 End Date: 04/14/2015 13:17

Lab Sample Id	D/F	Type	Time	Analytes																								
				S2																								
MB 240-176308/1-A	1	T	12:28	X																								
LCS 240-176308/2-A	1	T	12:31	X																								
ZZZZZZ			12:33																									
ZZZZZZ			12:36																									
ZZZZZZ			12:39																									
ZZZZZZ			12:42																									
ZZZZZZ			12:45																									
ZZZZZZ			12:48																									
ZZZZZZ			12:51																									
ZZZZZZ			12:54																									
ZZZZZZ			12:56																									
ZZZZZZ			12:59																									
240-49236-1	1	T	13:02	X																								
MB 240-176308/14-A	1	T	13:05	X																								
LCS 240-176308/15-A	1	T	13:08	X																								
240-49236-2	1	T	13:11	X																								
240-49236-2 MS	1	T	13:14	X																								
240-49236-2 MSD	1	T	13:17	X																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: Randolph Analysis Method: 9045C

Start Date: 04/13/2015 09:22 End Date: 04/13/2015 16:56

Lab Sample Id	D/F	Type	Time	Analytes
				Corr
CCV 240-176141/1	1		09:22	X
LCS 240-176141/2	1	T	09:37	X
ZZZZZZ			09:53	
ZZZZZZ			10:09	
ZZZZZZ			10:24	
ZZZZZZ			10:40	
ZZZZZZ			10:56	
ZZZZZZ			11:11	
240-49236-2	1	T	11:27	X
ZZZZZZ			11:43	
CCV 240-176141/11	1		11:58	X
ZZZZZZ			12:14	
240-49236-1 DU	1	T	12:30	X
240-49236-1	1	T	12:45	X
ZZZZZZ			13:01	
ZZZZZZ			13:17	
ZZZZZZ			13:32	
ZZZZZZ			13:48	
ZZZZZZ			14:04	
ZZZZZZ			14:19	
CCV 240-176141/21	1		14:35	X
ZZZZZZ			14:51	
CCV 240-176141/23			15:06	
ZZZZZZ			15:22	
CCV 240-176141/25			15:38	
ZZZZZZ			15:53	
ZZZZZZ			16:09	
ZZZZZZ			16:25	
CCV 240-176141/29			16:40	
ZZZZZZ			16:56	

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/10/2015 08:35 End Date: 04/10/2015 18:22

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
ZZZZZZ			08:35																										
ZZZZZZ			08:35																										
ZZZZZZ			08:35																										
ZZZZZZ			08:35																										
ZZZZZZ			08:35																										
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ZZZZZZ			08:35																										
ZZZZZZ			08:35																										
ZZZZZZ			08:35																										
ZZZZZZ			17:11																										
ZZZZZZ			17:11																										
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ZZZZZZ			17:14																										
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ZZZZZZ			17:14																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/10/2015 08:35 End Date: 04/10/2015 18:22

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
ZZZZZZ			17:14																										
ZZZZZZ			17:36																										
ZZZZZZ			18:17																										
ZZZZZZ			18:17																										
ZZZZZZ			18:17																										
240-49236-1	1	T	18:17	X	X																								
ZZZZZZ			18:17																										
ZZZZZZ			18:17																										
ZZZZZZ			18:17																										
ZZZZZZ			18:17																										
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ZZZZZZ			18:17																										
ZZZZZZ			18:17																										
ZZZZZZ			18:22																										
ZZZZZZ			18:22																										
ZZZZZZ			18:22																										
ZZZZZZ			18:22																										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: SAURON Analysis Method: 9012A

Start Date: 04/13/2015 14:24 End Date: 04/13/2015 14:50

Lab Sample Id	D/F	Type	Time	Analytes
				CN
CCV 240-176246/1	1		14:24	X
CCB 240-176246/2	1		14:24	X
MB 240-176155/1-A	1	T	14:24	X
LCS 240-176155/2-A	1	T	14:24	X
ZZZZZZ			14:24	
ZZZZZZ			14:24	
ZZZZZZ			14:24	
ZZZZZZ			14:24	
ZZZZZZ			14:24	
ZZZZZZ			14:24	
ZZZZZZ			14:24	
ZZZZZZ			14:24	
CCV 240-176246/13	1		14:29	X
CCB 240-176246/14	1		14:29	X
ZZZZZZ			14:29	
ZZZZZZ			14:29	
ZZZZZZ			14:29	
ZZZZZZ			14:29	
ZZZZZZ			14:29	
ZZZZZZ			14:29	
240-49236-1	1	T	14:29	X
ZZZZZZ			14:29	
CCV 240-176246/23	1		14:31	X
CCB 240-176246/24	1		14:31	X
CCV 240-176246/25			14:49	
CCB 240-176246/26			14:49	
ZZZZZZ			14:49	
ZZZZZZ			14:49	
CCV 240-176246/29			14:50	
CCB 240-176246/30			14:50	

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: SAURON Analysis Method: 9012A

Start Date: 04/23/2015 14:31 End Date: 04/23/2015 16:58

Lab Sample Id	D/F	Type	Time	Analytes
				CN
CCV 240-177730/1	1		14:31	X
CCB 240-177730/2	1		14:31	X
MB 240-177636/1-A	1	T	14:31	X
ZZZZZZ			14:31	
ZZZZZZ			14:31	
ZZZZZZ			14:31	
ZZZZZZ			14:31	
ZZZZZZ			14:31	
ZZZZZZ			14:31	
ZZZZZZ			14:31	
ZZZZZZ			14:31	
CCV 240-177730/12	1		14:37	X
CCB 240-177730/13	1		14:37	X
ZZZZZZ			14:37	
ZZZZZZ			14:37	
ZZZZZZ			14:37	
ZZZZZZ			14:37	
ZZZZZZ			14:37	
ZZZZZZ			14:37	
ZZZZZZ			14:37	
ZZZZZZ			14:37	
ZZZZZZ			14:37	
240-49236-2	1	T	14:37	X
CCV 240-177730/24	1		14:42	X
CCB 240-177730/25	1		14:42	X
ZZZZZZ			14:42	
ZZZZZZ			14:42	
ZZZZZZ			14:42	
ZZZZZZ			14:42	
CCV 240-177730/30			14:44	
CCB 240-177730/31			14:44	
CCV 240-177730/32			15:16	
CCB 240-177730/33			15:16	
ZZZZZZ			15:16	
CCV 240-177730/35			15:17	
CCB 240-177730/36			15:17	
CCV 240-177730/37			15:49	
CCB 240-177730/38			15:49	
CCV 240-177730/39			15:50	
CCB 240-177730/40			15:50	
CCV 240-177730/41	1		16:16	X
CCB 240-177730/42	1		16:16	X

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Instrument ID: SAURON Analysis Method: 9012A

Start Date: 04/23/2015 14:31 End Date: 04/23/2015 16:58

Lab Sample Id	D/F	Type	Time	Analytes																								
				CN																								
LCS 240-177636/2-A	1	T	16:16	X																								
CCV 240-177730/44	1		16:18	X																								
CCB 240-177730/45	1		16:18	X																								
CCV 240-177730/46			16:35																									
CCB 240-177730/47			16:35																									
CCV 240-177730/48			16:36																									
CCB 240-177730/49			16:36																									
CCV 240-177730/50	1		16:57	X																								
CCB 240-177730/51	1		16:57	X																								
MRL 240-177730/52	1	T	16:57	X																								
CCV 240-177730/53	1		16:58	X																								
CCB 240-177730/54	1		16:58	X																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Instrument ID: FS4 Analysis Method: WS-WC-0050

Start Date: 04/21/2015 14:19 End Date: 04/21/2015 15:19

Lab Sample Id	D/F	Type	Time	Analytes																								
				NCL																								
ZZZZZZ			14:19																									
ZZZZZZ			14:21																									
STD5 320-71741/3 IC			14:23	X																								
STD4 320-71741/4 IC			14:25	X																								
STD3 320-71741/5 IC			14:27	X																								
STD2 320-71741/6 IC			14:29	X																								
STD1 320-71741/7 IC			14:31	X																								
STD0 320-71741/8 IC			14:33	X																								
ICV 320-71741/9	1		14:35	X																								
ICB 320-71741/10	1		14:37	X																								
MRL 320-71741/11	1	T	14:39	X																								
ZZZZZZ			14:41																									
ZZZZZZ			14:43																									
ZZZZZZ			14:45																									
ZZZZZZ			14:47																									
MB 320-71147/1-B	1	T	14:49	X																								
LCS 320-71147/2-B	1	T	14:51	X																								
240-49236-3	1	T	14:53	X																								
240-49236-3 MS	1	T	14:55	X																								
240-49236-3 MSD	1	T	14:57	X																								
ZZZZZZ			14:59																									
CCV 320-71741/22	1		15:01	X																								
CCB 320-71741/23	1		15:03	X																								
ZZZZZZ			15:05																									
ZZZZZZ			15:07																									
ZZZZZZ			15:09																									
ZZZZZZ			15:11																									
ZZZZZZ			15:13																									
ZZZZZZ			15:15																									
ZZZZZZ			15:17																									
ZZZZZZ			15:19																									

Prep Types:
T = Total/NA

FORM XIII-IN

TestAmerica Canton

Sulfide Standardization

Template ID: GEN14 001.T

Na Thiosulfate Normality:	0.0243	Analyst:	BW
		Date:	4/14/2015
mL of Iodine Used:	8	Batch:	176391
Blank 1:	8.95		
Blank 2:	8.95		
Blank 3:	8.95		
Iodine Normality:	**0.027185625**		
Sample Volume:	50		
Spike Amount:	0.25		
LCS 1:	7.85		
LCS 2:	7.85		
LCS 3:	7.85		
Sulfide Concentration:	**8.55**		
LCS TV:	**1711**		
Na Sulfide Concentration:	**0.122194286**		

TestAmerica Laboratory
Konelab 250 SAURON
SW846-9012A,335.2,335.4,335.2CLPM,4500CNE,I,G
365.1,365,2,4500PE,325.2,4500CLE,SW846-9251,375.

13.04.2015 10:46

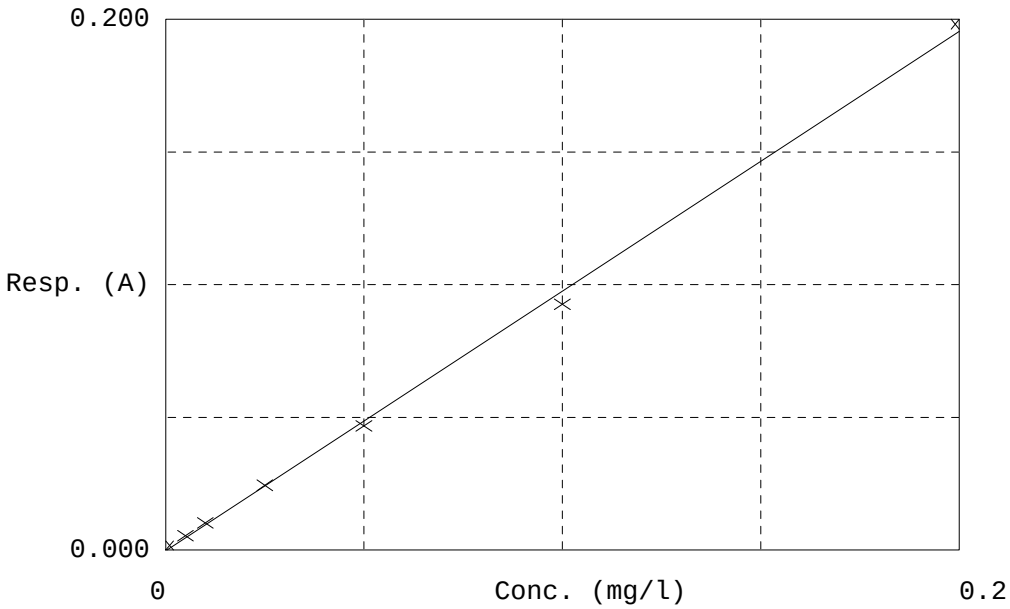
Test Cyanide

Accepted 13.04.2015 10:46

Factor 1.021
Bias 0

Coeff. of det. 0.998679

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.001	0.00187	0.00000	
2	CN-0.2	0.005	0.00589	0.00500	
3	CN-0.2	0.010	0.01090	0.01000	
4	CN-0.2	0.024	0.02532	0.02500	
5	CN-0.2	0.047	0.04818	0.05000	
6	CN-0.2	0.093	0.09500	0.10000	
7	CN-0.2	0.198	0.20285	0.20000	
8	A-ICV(control)	0.092	0.09466	0.10000	
9	B-ICB(control)	0.001	0.00159	0.00000	
10	C-MRL(control)	0.010	0.01097	0.01000	

TestAmerica Laboratory
Konelab 250 SAURON

Date : 2015-04-13
Time : 15.08

SW846-9012A,335.2,335.4,335.2CLPM,4500CNE,I,G
365.1,365,2,4500PE,325.2,4500CLE,SW846-9251,375.

Test Cyanide
Unit mg/l

Sample ID:	Result	Dilut	Man.dilut	Resp.	Date and Time
CCV-CN	0.0981			0.096	2015-04-13 14.24
CCB-CN	0.0015			0.001	2015-04-13 14.24
MB 240-176155/1-	0.0017			0.001	2015-04-13 14.24
LCS 240-176155/2	0.1799			0.176	2015-04-13 14.24
240-49264-J-1-A	0.0020			0.002	2015-04-13 14.24
240-49264-J-1-B	0.0811			0.079	2015-04-13 14.24
240-49264-J-1-C	0.0809			0.079	2015-04-13 14.24
160-11243-G-9-A	0.0040			0.004	2015-04-13 14.24
160-11243-G-10-A	0.0045			0.004	2015-04-13 14.24
160-11243-H-11-A	0.0050			0.004	2015-04-13 14.24
240-49113-D-1-C	0.0017			0.001	2015-04-13 14.24
240-49268-A-1-A	0.0016			0.001	2015-04-13 14.24
CCV-CN	0.0977			0.095	2015-04-13 14.29
CCB-CN	0.0015			0.001	2015-04-13 14.29
240-49268-A-2-A	0.0016			0.001	2015-04-13 14.29
240-49268-A-3-A	0.0017			0.001	2015-04-13 14.29
240-49268-A-4-A	0.0015			0.001	2015-04-13 14.29
240-49268-A-5-A	0.0020			0.002	2015-04-13 14.29
240-49268-A-6-A	0.0013			0.001	2015-04-13 14.29
190-6993-B-1-A	0.0352			0.034	2015-04-13 14.29
240-49236-B-1-A	0.0040			0.004	2015-04-13 14.29
mrl2	0.0111			0.011	2015-04-13 14.29
CCV-CN	0.0979			0.096	2015-04-13 14.31
CCB-CN	0.0014			0.001	2015-04-13 14.31
CCV-CN	0.1020			0.100	2015-04-13 14.49
CCB-CN	0.0016			0.001	2015-04-13 14.49
190-6993-B-1-A	0.0486			0.047	2015-04-13 14.49
mrl2	0.0111			0.010	2015-04-13 14.49
CCV-CN	0.1048			0.102	2015-04-13 14.50
CCB-CN	0.0014			0.001	2015-04-13 14.50

TestAmerica Laboratory
Konelab 250 SAURON
SW846-9012A,335.2,335.4,335.2CLPM,4500CNE,I,G
365.1,365,2,4500PE,325.2,4500CLE,SW846-9251,375.

13.04.2015 15:07

Test: Cyanide

Sample Id	Result	Dil. 1 +	Response	Errors
CCV-CN	0.0981	0.0	0.096	
CCB-CN	0.0015	0.0	0.001	
MB 240-176155/1-	0.0017	0.0	0.001	
LCS 240-176155/2	0.1799	0.0	0.176	
240-49264-J-1-A	0.0020	0.0	0.002	
240-49264-J-1-B	0.0811	0.0	0.079	
240-49264-J-1-C	0.0809	0.0	0.079	
160-11243-G-9-A	0.0040	0.0	0.004	
160-11243-G-10-A	0.0045	0.0	0.004	
160-11243-H-11-A	0.0050	0.0	0.004	
240-49113-D-1-C	0.0017	0.0	0.001	
240-49268-A-1-A	0.0016	0.0	0.001	
CCV-CN	0.0977	0.0	0.095	
CCB-CN	0.0015	0.0	0.001	
240-49268-A-2-A	0.0016	0.0	0.001	
240-49268-A-3-A	0.0017	0.0	0.001	
240-49268-A-4-A	0.0015	0.0	0.001	
240-49268-A-5-A	0.0020	0.0	0.002	
240-49268-A-6-A	0.0013	0.0	0.001	
190-6993-B-1-A	0.0352	0.0	0.034	
240-49236-B-1-A	0.0040	0.0	0.004	
mrl2	0.0111	0.0	0.011	
CCV-CN	0.0979	0.0	0.096	
CCB-CN	0.0014	0.0	0.001	
CCV-CN	0.1020	0.0	0.100	
CCB-CN	0.0016	0.0	0.001	
190-6993-B-1-A	0.0486	0.0	0.047	
mrl2	0.0111	0.0	0.010	
CCV-CN	0.1048	0.0	0.102	
CCB-CN	0.0014	0.0	0.001	

N	20
Mean	0.0240
SD	0.04466
CV%	185.98

TestAmerica Laboratory
Konelab 250 SAURON
SW846-9012A,335.2,335.4,335.2CLPM,4500CNE,I,G
365.1,365,2,4500PE,325.2,4500CLE,SW846-9251,375.

23.04.2015 11:29

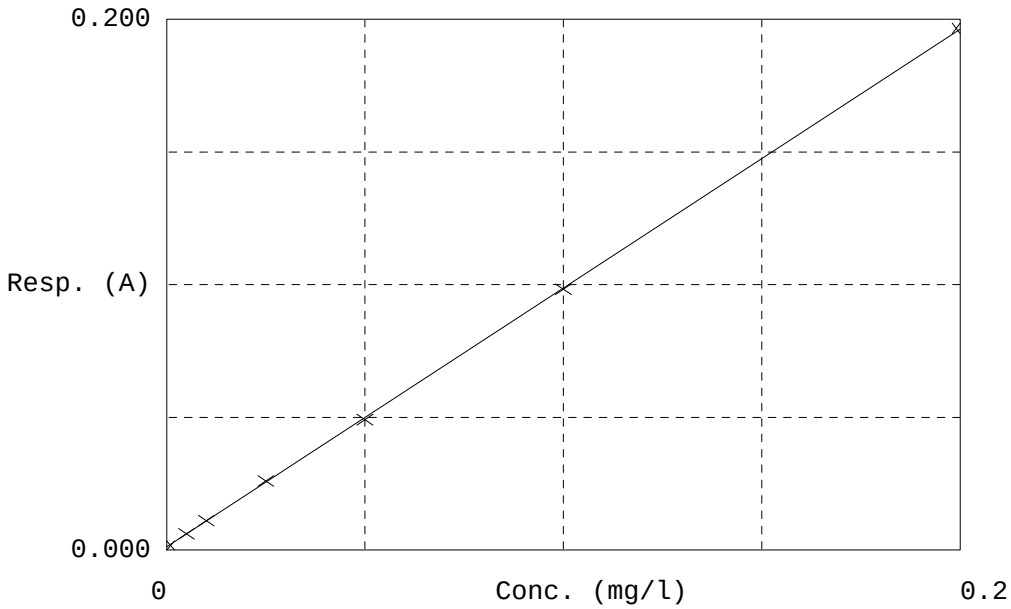
Test Cyanide

Accepted 23.04.2015 11:28

Factor 1.025
Bias 0.001

Coeff. of det. 0.999957

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0	0.001	0.00024	0.00000	
2	CN-0.2	0.006	0.00507	0.00500	
3	CN-0.2	0.011	0.01011	0.01000	
4	CN-0.2	0.026	0.02550	0.02500	
5	CN-0.2	0.049	0.04915	0.05000	
6	CN-0.2	0.098	0.09959	0.10000	
7	CN-0.2	0.197	0.20035	0.20000	
8	A-ICV(control)	0.093	0.09438	0.10000	
9	B-ICB(control)	0.001	-0.00004	0.00000	
10	C-MRL(control)	0.010	0.00925	0.01000	

TestAmerica Laboratory
Konelab 250 SAURON

Date : 2015-04-23
Time : 17.00

SW846-9012A,335.2,335.4,335.2CLPM,4500CNE,I,G
365.1,365,2,4500PE,325.2,4500CLE,SW846-9251,375.

Test Cyanide
Unit mg/l

Sample ID:	Result	Dilut	Man.dilut	Resp.	Date and Time
CCV-CN	0.0969			0.096	2015-04-23 14.31
CCB-CN	0.0001			0.001	2015-04-23 14.31
MB 240-177636/1-	0.0012			0.002	2015-04-23 14.31
240-49452-A-1-A	-0.0003			0.001	2015-04-23 14.31
240-49452-A-1-B	-0.0003			0.001	2015-04-23 14.31
240-49452-A-1-C	-0.0004			0.001	2015-04-23 14.31
240-49352-A-1-A	0.0033			0.004	2015-04-23 14.31
240-49362-D-1-A	0.0019			0.003	2015-04-23 14.31
190-7051-A-1-A	0.0020			0.003	2015-04-23 14.31
190-7051-B-2-A	0.0006			0.002	2015-04-23 14.31
190-7077-A-2-A	0.0033			0.004	2015-04-23 14.31
CCV-CN	0.0966			0.095	2015-04-23 14.37
CCB-CN	0.0000			0.001	2015-04-23 14.37
190-7048-D-3-A	0.0023			0.003	2015-04-23 14.37
190-7048-D-2-A	0.0026			0.004	2015-04-23 14.37
190-7048-D-5-A	0.0027			0.004	2015-04-23 14.37
190-7048-D-4-A	0.0078			0.009	2015-04-23 14.37
190-7074-A-2-A	0.0009			0.002	2015-04-23 14.37
180-43118-G-1-A	0.0001			0.001	2015-04-23 14.37
490-76555-G-1-A	0.0024			0.004	2015-04-23 14.37
240-49329-A-1-B	0.0311			0.032	2015-04-23 14.37
240-49446-D-1-A	0.0026			0.004	2015-04-23 14.37
240-49236-A-2-A	0.0030			0.004	2015-04-23 14.37
CCV-CN	0.0973			0.096	2015-04-23 14.42
CCB-CN	0.0002			0.001	2015-04-23 14.42
180-43274-B-2-B	3.2064	1+39.0		0.079	2015-04-23 14.42
180-43271-A-2-A	1.5131	1+39.0		0.038	2015-04-23 14.42
180-43274-B-1-B	8.9000	1+119.0		0.074	2015-04-23 14.42
180-43271-A-1-A	3.9796	1+119.0		0.034	2015-04-23 14.43
CCV-CN	0.0996			0.098	2015-04-23 14.44
CCB-CN	0.0000			0.001	2015-04-23 14.44
CCV-CN	0.1007			0.099	2015-04-23 15.16
CCB-CN	0.0004			0.002	2015-04-23 15.16
240-49329-A-1-B	0.0340			0.034	2015-04-23 15.16
CCV-CN	0.1020			0.101	2015-04-23 15.17
CCB-CN	0.0003			0.001	2015-04-23 15.17
CCV-CN	0.0961			0.095	2015-04-23 15.49
CCB-CN	0.0002			0.001	2015-04-23 15.49
CCV-CN	0.0968			0.096	2015-04-23 15.50
CCB-CN	-0.0001			0.001	2015-04-23 15.50
CCV-CN	0.0985			0.097	2015-04-23 16.16
CCB-CN	0.0002			0.001	2015-04-23 16.16
LCS 240-177636/2	0.1438			0.141	2015-04-23 16.16
CCV-CN	0.1007			0.099	2015-04-23 16.18
CCB-CN	-0.0001			0.001	2015-04-23 16.18
CCV-CN	0.1007			0.099	2015-04-23 16.35
CCB-CN	0.0002			0.001	2015-04-23 16.35
CCV-CN	0.0979			0.097	2015-04-23 16.36
CCB-CN	0.0001			0.001	2015-04-23 16.36
CCV-CN	0.1073			0.106	2015-04-23 16.57
CCB-CN	0.0002			0.001	2015-04-23 16.57
mrl2	0.0096			0.011	2015-04-23 16.57
CCV-CN	0.0990			0.098	2015-04-23 16.58
CCB-CN	0.0002			0.001	2015-04-23 16.58

TestAmerica Laboratory
Konelab 250 SAURON
SW846-9012A,335.2,335.4,335.2CLPM,4500CNE,I,G
365.1,365,2,4500PE,325.2,4500CLE,SW846-9251,375.

23.04.2015 17:00

Test: Cyanide

Sample Id	Result	Dil. 1 +	Response	Errors
CCV-CN	0.0969	0.0	0.096	
CCB-CN	0.0001	0.0	0.001	
MB 240-177636/1-	0.0012	0.0	0.002	
LCS 240-177636/2	0.1373	0.0	0.135	
240-49452-A-1-A	-0.0003	0.0	0.001	
240-49452-A-1-B	-0.0003	0.0	0.001	
240-49452-A-1-C	-0.0004	0.0	0.001	
240-49352-A-1-A	0.0033	0.0	0.004	
240-49362-D-1-A	0.0019	0.0	0.003	
190-7051-A-1-A	0.0020	0.0	0.003	
190-7051-B-2-A	0.0006	0.0	0.002	
190-7077-A-2-A	0.0033	0.0	0.004	
CCV-CN	0.0966	0.0	0.095	
CCB-CN	0.0000	0.0	0.001	
190-7048-D-3-A	0.0023	0.0	0.003	
190-7048-D-2-A	0.0026	0.0	0.004	
190-7048-D-5-A	0.0027	0.0	0.004	
190-7048-D-4-A	0.0078	0.0	0.009	
190-7074-A-2-A	0.0009	0.0	0.002	
180-43118-G-1-A	0.0001	0.0	0.001	
490-76555-G-1-A	0.0024	0.0	0.004	
240-49329-A-1-B	0.0311	0.0	0.032	
240-49446-D-1-A	0.0026	0.0	0.004	
240-49236-A-2-A	0.0030	0.0	0.004	
CCV-CN	0.0973	0.0	0.096	
CCB-CN	0.0002	0.0	0.001	
180-43274-B-2-B	3.2064	39.0	0.079	
180-43271-A-2-A	1.5131	39.0	0.038	
180-43274-B-1-B	8.9000	119.0	0.074	
180-43271-A-1-A	3.9796	119.0	0.034	
CCV-CN	0.0996	0.0	0.098	
CCB-CN	0.0000	0.0	0.001	
CCV-CN	0.1007	0.0	0.099	
CCB-CN	0.0004	0.0	0.002	
LCS 240-177636/2	0.1333	0.0	0.131	
LCS 240-177636/2	0.1399	0.0	0.138	
240-49329-A-1-B	0.0340	0.0	0.034	
CCV-CN	0.1020	0.0	0.101	
CCB-CN	0.0003	0.0	0.001	
CCV-CN	0.0961	0.0	0.095	
CCB-CN	0.0002	0.0	0.001	
LCS 240-177636/2	0.1343	0.0	0.132	
LCS 240-177636/2	0.1301	0.0	0.128	
LCS 240-177636/2	0.1367	0.0	0.135	
CCV-CN	0.0968	0.0	0.096	
CCB-CN	-0.0001	0.0	0.001	
CCV-CN	0.0985	0.0	0.097	
CCB-CN	0.0002	0.0	0.001	
LCS 240-177636/2	0.1426	0.0	0.140	
LCS 240-177636/2	0.1438	0.0	0.141	
LCS 240-177636/2	0.1430	0.0	0.141	
CCV-CN	0.1007	0.0	0.099	
CCB-CN	-0.0001	0.0	0.001	
CCV-CN	0.1007	0.0	0.099	
CCB-CN	0.0002	0.0	0.001	
LCS 240-177636/2	0.1434	0.0	0.141	
LCS 240-177636/2	0.1437	0.0	0.141	
LCS 240-177636/2	0.1419	0.0	0.140	
CCV-CN	0.0979	0.0	0.097	
CCB-CN	0.0001	0.0	0.001	
CCV-CN	0.1073	0.0	0.106	
CCB-CN	0.0002	0.0	0.001	

TestAmerica Laboratory
Konelab 250 SAURON
SW846-9012A,335.2,335.4,335.2CLPM,4500CNE,I,G
365.1,365,2,4500PE,325.2,4500CLE,SW846-9251,375.

23.04.2015 17:00

Test: Cyanide

Sample Id	Result	Dil. 1 +	Response	Errors
mrl2	0.0096	0.0	0.011	
mrl2	0.0095	0.0	0.010	
CCV-CN	0.0990	0.0	0.098	
CCB-CN	0.0002	0.0	0.001	

N	38
Mean	0.5103
SD	1.62713
CV%	318.89

Peak Table:Nitrite/Nitrate

File name: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042115B.RST
Date: 21-Apr-15
Operator: JCB

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	103	Sync	1	SYNC	1	1	161853	1.002100	
B	0	Baseline	1	RB	1	1	0	0.015535	BL
3	102	Cal 5	1	C	1	1	326414	2.005168	HI
4	103	Cal 4	1	C	1	1	160913	0.996370	
5	104	Cal 3	1	C	1	1	61000	0.387355	
6	105	Cal 2	1	C	1	1	28718	0.190586	
7	106	Cal 1	1	C	1	1	6421	0.054674	
8	0	Cal 0	1	C	1	1	51	0.015847	
9	107	ICV	1	U	1	1	157169	0.973544	
10	110	BLANK/ICB	1	BLNK	1	1	614	0.019279	
11	106	MRL	1	U	1	1	6247	0.053612	
12	108	NO2 1PPM	1	U	1	1	158321	0.980569	
13	109	NO3 1PPM	1	U	1	1	155500	0.963371	
14	0	Blank	1	BLNK	1	1	116	0.016242	
B	0	Baseline	1	RB	1	1	0	0.015535	BL
16	113	mb 320-71147/1-b	1	U	1	1	1130	0.022422	
17	114	lcs 320-71147/2-b	1	U	1	1	198745	1.226973	HI
18	115	240-49236-e-3-h	1	U	1	1	1579	0.025162	FL
19	116	240-49236-e-3-i ms	1	U	1	1	189130	1.168364	HI
20	117	240-49236-e-3-j msd	1	U	1	1	222366	1.370951	HI
21	106	MRL	1	U	1	1	7556	0.061595	FL
22	103	CCV	1	U	1	1	161835	1.001987	
23	0	CCB	1	BLNK	1	1	105	0.016175	
B	0	Baseline	1	RB	1	1	0	0.015535	BL
25	118	mb 320-71507/1-b	1	U	1	1	1475	0.024525	
26	119	lcs 320-71507/2-b	1	U	1	1	775	0.020258	
27	120	240-49071-e-2-h	1	U	1	1	1748	0.026189	
28	121	240-49085-e-8-j	1	U	1	1	1220537	7.455225	HI
29	122	240-49085-e-8-k ms	1	U	1	1	23383	0.158066	FL

Report Results by Sample
Result path: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042115B.RST
Sample table path: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042115b.tbl
Method path: C:\ALPKEM\no3_no2.mth
Date acquired: 21-Apr-15
Time acquired: 15:20

Facility Name:
Facility Location:
Department:

Operator Name: JCB
Operator ID: JCB

Platform: FS III/IV/3100
Software Rev Code: 222
Data system ID: 57

Channel: 3
Analysis: Nitrite/Nitrate
CAS Number:
Methodology: NO2+NO3-353.2/N02-353.2/WS-WC-0050

	Temp	Warmup	Run time	Reps
rack 1	Off	1134:03:50	1:38:15	14
rack 2	Off	1134:03:50	1:38:15	14
rack 3	Off	1134:03:50	1:38:15	14

Notes

Cup	Name	S	1:Time	1:Value	1:S
0	Baseline	C	14:21:14	0.02	[C]
102	Cal 5	C	14:23:14	2.01	[C]
103	Cal 4	C	14:25:14	1.00	[C]
104	Cal 3	C	14:27:15	0.39	[C]
105	Cal 2	C	14:29:15	0.19	[C]
106	Cal 1	C	14:31:15	0.05	[C]
0	Cal 0	C	14:33:15	0.02	[C]
107	ICV	-	14:35:15	0.97	[-]
110	BLANK/ICB	C	14:37:16	0.02	[C]
106	MRL	-	14:39:16	0.05	[-]
108	NO2 1PPM	-	14:41:16	0.98	[-]
109	NO3 1PPM	-	14:43:16	0.96	[-]
0	Blank	C	14:45:16	0.02	[C]
0	Baseline	C	14:47:17	0.02	[C]
113	mb 320-71147/1-b	-	14:49:17	0.02	[-]
114	lcs 320-71147/2-b	-	14:51:17	1.23	[-]
115	240-49236-e-3-h	-	14:53:17	0.03	[-]
116	240-49236-e-3-i ms	-	14:55:17	1.17	[-]
117	240-49236-e-3-j msd	-	14:57:18	1.37	[-]
106	MRL	-	14:59:18	0.06	[-]
103	CCV	-	15:01:18	1.00	[-]
0	CCB	C	15:03:18	0.02	[C]
0	Baseline	C	15:05:18	0.02	[C]
118	mb 320-71507/1-b	-	15:07:19	0.02	[-]
119	lcs 320-71507/2-b	-	15:09:19	0.02	[-]
120	240-49071-e-2-h	-	15:11:19	0.03	[-]
121	240-49085-e-8-j	-	15:13:19	7.46	[-]
122	240-49085-e-8-k ms	-	15:15:20	0.16	[-]
123	240-49085-e-8-l msd	I	15:17:20		
124	240-49085-e-15-d	I	15:19:20		
125	240-49085-e-22-d	L			
126	240-49085-e-34-d	L			
127	240-49171-c-6-d	L			
106	MRL	L			
103	CCV	L			
0	CCB	L			
0	Baseline	L			
128	240-49171-c-8-d	L			
129	240-49171-c-10-d	L			
130	240-49233-c-4-d	L			
131	240-49233-c-6-d	L			
132	240-49233-c-8-d	L			
106	MRL	L			
103	CCV	L			
0	CCB	L			
0	Baseline	L			

Nitrite/Nitrate:Calibration 1: Peak 3-31

File name: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042115B.RST
Date: 21-Apr-15
Operator: JCB

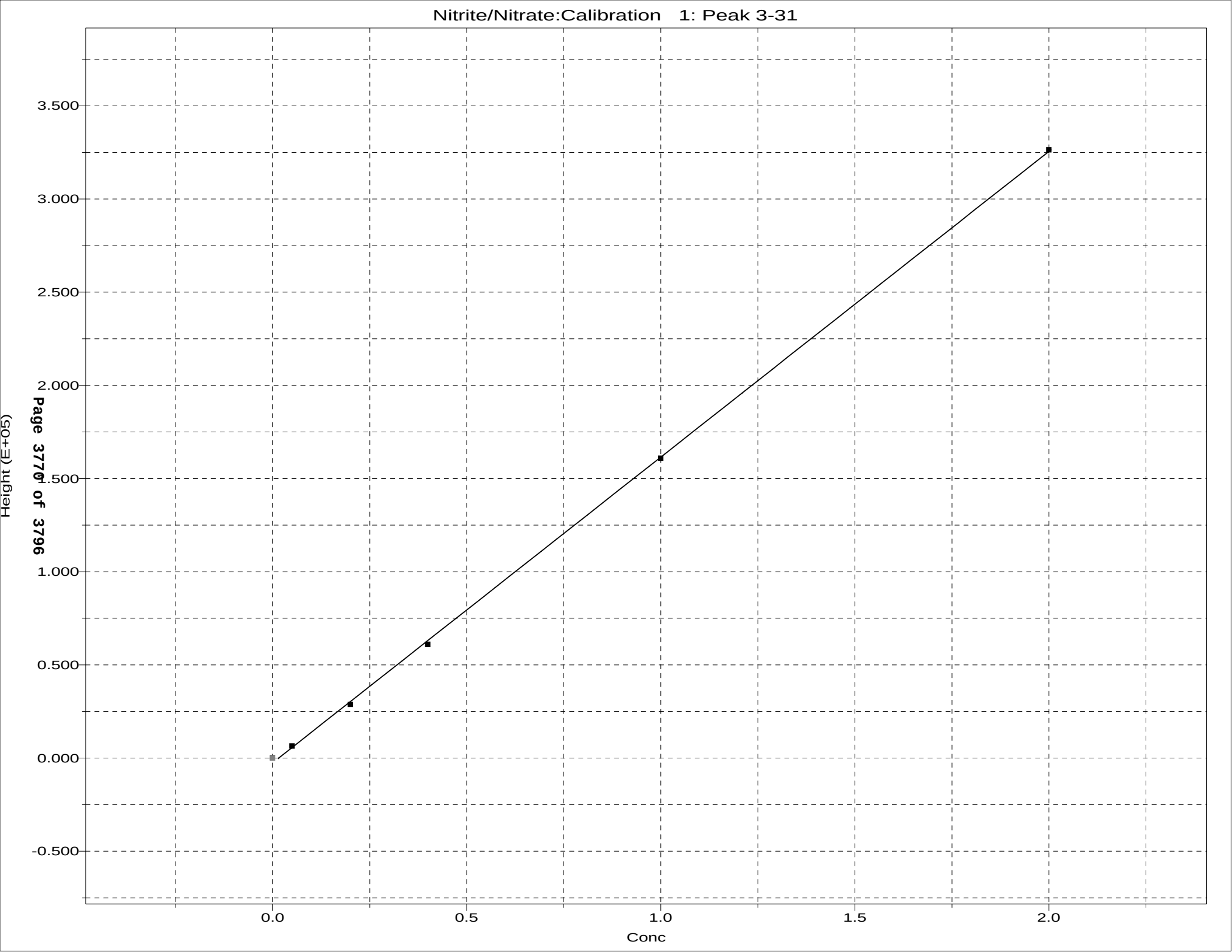
*	Name	Conc	Height
*	Cal 5	2.000000	326414.250000
*	Cal 4	1.000000	160913.390625
*	Cal 3	0.400000	60999.863281
*	Cal 2	0.200000	28718.439453
*	Cal 1	0.050000	6421.050293
*	Cal 0	0.000000	51.210266

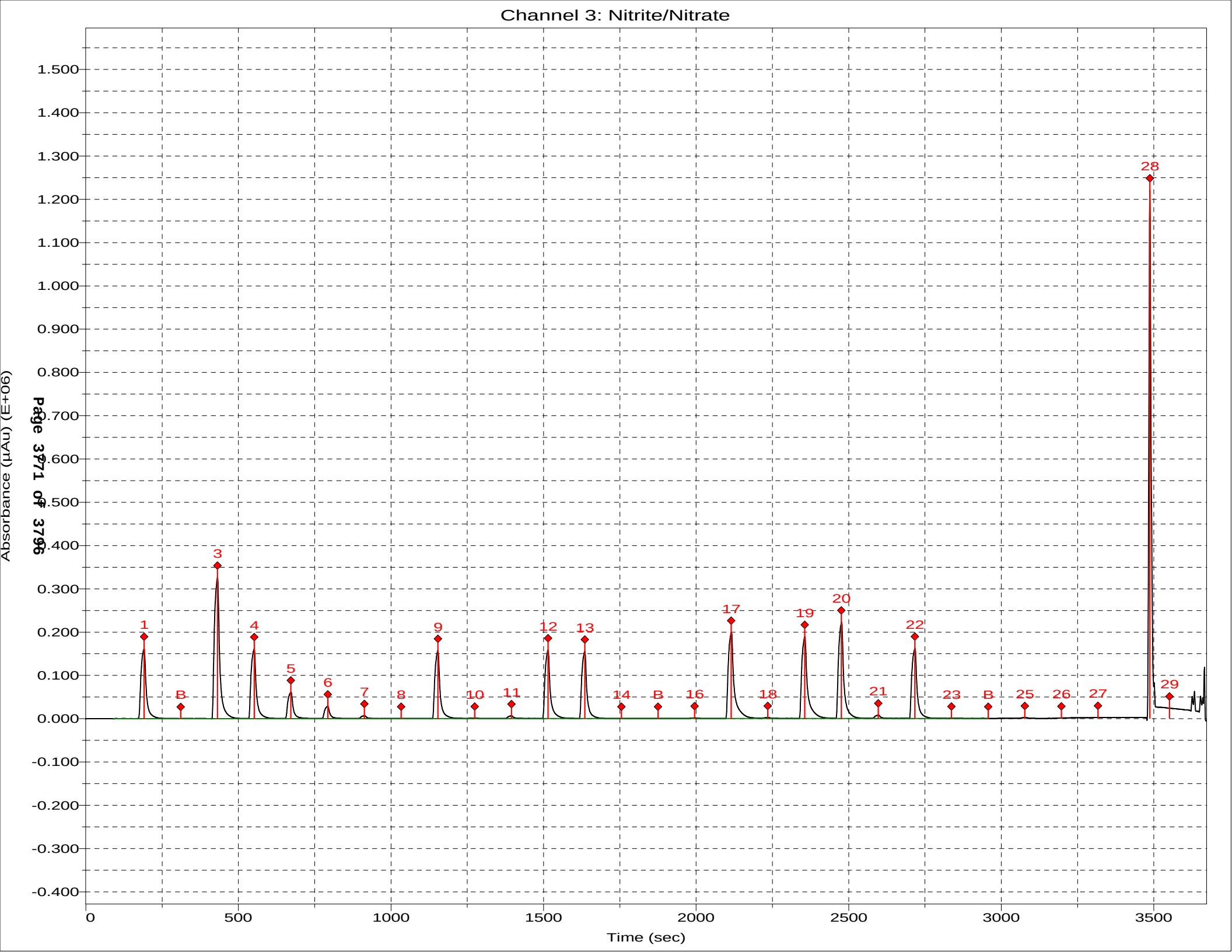
Calib Coef:
y=bx+a
a: (intercept) -2.5486e+03
b: 1.6406e+05

Corr Coef: 0.999906

Carryover: n/a

No Drift Peaks


Nitrite/Nitrate:Calibration 1: Peak 3-31
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
-0.500
Height (E+05)
0.0
0.5
1.0
1.5
2.0
Conc


Channel 3: Nitrite/Nitrate
Absorbance (µAu) (E+06)
Time (sec)
1.500
1.400
1.300
1.200
1.100
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
-0.100
-0.200
-0.300
-0.400
0
500
1000
1500
2000
2500
3000
3500
1
B
3
4
5
6
7
8
9
10
11
12
13
14
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17
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29
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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Level I and Level II Review Checklist
General Chemistry

Instrument ID F54		WS-WC-0050 NCell	
Batch 71741	File # 042158	Date 4/21/15	Analyst JJ

Lot Numbers 240-45236	YES	NO	NA
LEVEL 1 Review:			
1. Samples properly preserved/verified	✓		
2. Run setup meets Std criteria (Curve, ICV/ICB, CCV etc.)	✓		
3. Calibration criteria met (R=0.995, R^2=0.990)	✓		
4. Interception criteria for ~~quadratic~~ linear fits + or – ½ the RL	✓ JJ 4/22/15		
5. Second source std in control	✓		
6. Batch QC in control (LCS,MB,MS/MSD,DCS if necessary)	✓		
7. Calculations checked	✓		
8. QAS/QAPP consulted for client specific requirements	✓		
9. Standard trakcing #'s recorded on runlog/benchsheet	✓		
10. Manual integration performed, documented & approved			✓
11. Copy of run log included with data package	✓		
12. Copy of conductivity screen logbook (314.0 only)			✓
LEVEL 1 Data Review:			
1. Benchsheet complete	✓		
2. QAS/QAPP Consulted for client specific data entry	✓		
3. Copy of prep sheet/checklist submitted	✓		
4. NCM(s) submitted			✓

COMMENTS: _____

REVIEWED BY: JW DATE: 4/28/15

DATA ENTERED BY: JJ DATE: 4/22/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-71630 Test: Ncell-L (Hydrolysis)

Earliest Holding Time: 4-23-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and Cl Check)	✓	✓
The pH is transcribed correctly in TALS	✓	✓
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	**1st Level Reviewer**	**2nd Level Reviewer**
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: HSA Date: 4-21-15

2nd Level Reviewer: SNE Date: 4/21/15

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-71147 Test: MCell-L

Earliest Holding Time: 5-6-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	1st Level Reviewer	2nd Level Reviewer
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and Cl Check)	✓	✓
The pH is transcribed correctly in TALS	NA	NA
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	1st Level Reviewer	2nd Level Reviewer
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	1st Level Reviewer	2nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: HJA Date: 4-15-15

2nd Level Reviewer: SNE Date: 4/15/15

Comments:

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176597 Batch Start Date: 04/15/15 06:00 Batch Analyst: Harshman, Tom

Batch Method: 1010 Batch End Date: 04/15/15 13:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	InitialTemp	WCP-XYLENE 00016			
LCS 240-176597/1		1010		70 mL	68 Degrees F	70 mL			
240-49236-E-2 DU	079SB-0384-0001-IDW	1010	T	70 mL	62 Degrees F				
240-49236-E-2	079SB-0384-0001-IDW	1010	T	70 mL	68 Degrees F				
240-49236-C-1	079SB-0383-0001-IDW	1010	T	70 g	65 Degrees F				

Batch Notes	
Equipment ID	whitey

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176308 Batch Start Date: 04/14/15 08:03 Batch Analyst: Woodward, Bruce

Batch Method: 9030B Batch End Date: 04/14/15 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCSULFIDELCS 00843			
MB 240-176308/1		9030B, 9034		4.97 g	50 mL				
LCS 240-176308/2		9030B, 9034		5.04 g	50 mL	0.25 mL			
240-49236-B-1	079SB-0383-0001-IDW	9030B, 9034	T	4.98 g	50 mL				
MB 240-176308/14		9030B, 9034		50 mL	50 mL				
LCS 240-176308/15		9030B, 9034		50 mL	50 mL	0.25 mL			
240-49236-B-2	079SB-0384-0001-IDW	9030B, 9034	T	50 mL	50 mL				
240-49236-B-2 MS	079SB-0384-0001-IDW	9030B, 9034	T	50 mL	50 mL	0.25 mL			
240-49236-B-2 MSD	079SB-0384-0001-IDW	9030B, 9034	T	50 mL	50 mL	0.25 mL			

Batch Notes	
Distillation Temperature	70 Degrees C
Ottawa Sand Lot #	1016105
Pipette ID	D4
Sulfuric Acid Reagent ID Number	1931178
Zinc Acetate Buffer Reagent ID Number	1923438

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176391 Batch Start Date: 04/14/15 12:28 Batch Analyst: Woodward, Bruce

Batch Method: 9034 Batch End Date: 04/14/15 13:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	IodineAmount	TitrantVolume1	CalcMsg		
MB 240-176308/1-A		9034		50 mL	8 mL	8.95 mL	OK		
LCS 240-176308/2-A		9034		50 mL	8 mL	7.95 mL	OK		
240-49236-B-1-B	079SB-0383-0001-IDW	9034	T	50 mL	8 mL	9.00 mL	OK		
MB 240-176308/14-A		9034		50 mL	8 mL	9.00 mL	OK		
LCS 240-176308/15-A		9034		50 mL	8 mL	8.00 mL	OK		
240-49236-B-2-A	079SB-0384-0001-IDW	9034	T	50 mL	8 mL	9.00 mL	OK		
240-49236-B-2-B MS	079SB-0384-0001-IDW	9034	T	50 mL	8 mL	8.00 mL	OK		
240-49236-B-2-C MSD	079SB-0384-0001-IDW	9034	T	50 mL	8 mL	8.05 mL	OK		

Batch Notes	
HCl Concentration	1:1
Lot # of hydrochloric acid	1645335
Iodine Lot Number	1948308
Normality of Iodine Solution	0.027186 N
Sodium Thiosulfate Reagent ID Number	1917187
Perform Calculation (0=No, 1=Yes)	1
Starch Lot Number	1923463
Normality of first Titrant	0.0243 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176141 Batch Start Date: 04/13/15 09:22 Batch Analyst: Matheny, Sarah

Batch Method: 9040C Batch End Date: 04/13/15 17:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-176141/1		9040C		10 mL	7.00 SU	20.6 Celsius			pH = Read 1
LCS 240-176141/2		9040C		10 mL	6.15 SU	21.0 Celsius			pH = Read 1
240-49236-D-2	079SB-0384-0001-IDW	9040C	T	10 mL	7.23 SU	18.9 Celsius	7.22 SU	19.1 Celsius	Read 2 Pass
CCV 240-176141/11		9040C		10 mL	6.96 SU	20.6 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-176141/1		9040C		10 mL					
LCS 240-176141/2		9040C			10 mL				
240-49236-D-2	079SB-0384-0001-IDW	9040C	T						
CCV 240-176141/11		9040C		10 mL					

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838817
pH Buffer 2 ID	4-1830814
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-1906227
pH Buffer 5 ID	12-1595632
Calibration Date and Time	4/13/2015 9:42
Electronic Slope	100.9
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176141 Batch Start Date: 04/13/15 09:22 Batch Analyst: Matheny, Sarah

Batch Method: 9045C Batch End Date: 04/13/15 17:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	CalcMsg	WCPH7 00073	
240-49236-B-1 DU	079SB-0383-0001-IDW	9045C	T	10.00 g	6.49 SU	20.1 Celsius	pH = Read 1		
240-49236-B-1	079SB-0383-0001-IDW	9045C	T	10.03 g	6.26 SU	19.9 Celsius	pH = Read 1		
CCV 240-176141/21		9045C		10 mL	6.96 SU	20.4 Celsius	pH = Read 1	10 mL	

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838817
pH Buffer 2 ID	4-1830814
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-1906227
pH Buffer 5 ID	12-1595632
Calibration Date and Time	4/13/2015 9:42
Electronic Slope	100.9
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 175905 Batch Start Date: 04/10/15 08:34 Batch Analyst: Matheny, Sarah

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-49236-A-1	079SB-0383-0001-IDW	Moisture	T	4.2418 g	13.0242 g	11.6249 g			

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4/10/2015
Oven Temp when samples are put in oven	103.6 Degrees C
Time samples were place in the oven	8:41
Date samples were removed from oven	4/11/15
Oven Temp when samples removed from oven	103.6 Degrees C
Time Samples were removed from oven	09:05
Oven ID	002
ID number of the thermometer	Tempguard Box-C #6

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176155 Batch Start Date: 04/13/15 09:55 Batch Analyst: Matheny, Sarah

Batch Method: 9012A Batch End Date: 04/13/15 12:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorineCheck	SulfideCheck	DistillpHCheck	DigestBlockID
MB 240-176155/1		9012A, 9012A		0.50 g	25 mL	N	N	>12	A
LCS 240-176155/2		9012A, 9012A		0.50 g	25 mL	N	N	>12	A
240-49236-B-1	079SB-0383-0001-IDW	9012A, 9012A	T	0.54 g	25 mL	N	N	>12	B

Lab Sample ID	Client Sample ID	Method Chain	Basis	DigestBlockPos	WCERAPHEN0L 00019				
MB 240-176155/1		9012A, 9012A		1					
LCS 240-176155/2		9012A, 9012A		2	5 mL				
240-49236-B-1	079SB-0383-0001-IDW	9012A, 9012A	T	7					

Batch Notes	
Batch Comment	cn trap 1647430; beaker lot 1870738
Distillation Temperature	120 Degrees C
Magnesium Chloride Lot Number	1939659
Sodium Hydroxide Reagent ID Number	1941901
Pipette ID	C3, B2
Sulfamic Acid Reagent ID Number	1930564
Sulfuric Acid Reagent ID Number	1945366

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 176246 Batch Start Date: 04/13/15 14:24 Batch Analyst: Matheny, Sarah

Batch Method: 9012A Batch End Date: 04/13/15 16:17

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCN.1CCV1 00198			
CCV 240-176246/1		9012A		2 mL	2 mL	2 mL			
CCB 240-176246/2		9012A		2 mL	2 mL				
MB 240-176155/1-A		9012A		2 mL	2 mL				
LCS 240-176155/2-A		9012A		2 mL	2 mL				
CCV 240-176246/13		9012A		2 mL	2 mL	2 mL			
CCB 240-176246/14		9012A		2 mL	2 mL				
240-49236-B-1-A	079SB-0383-0001-IDW	9012A	T	2 mL	2 mL				
CCV 240-176246/23		9012A		2 mL	2 mL	2 mL			
CCB 240-176246/24		9012A		2 mL	2 mL				

Batch Notes	
Buffer Reagent ID Number	1828100
Chloramine-T Reagent ID Number	609554
NaOH Lot #	1941901
Ottawa Sand Lot #	0000015555
Pipette ID	C3, B2
Pyridine-Barbituric Acid Reagent ID	1173398-1173403

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 177636 Batch Start Date: 04/23/15 11:18 Batch Analyst: Nguyen, Diem

Batch Method: 9012A Batch End Date: 04/23/15 15:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorineCheck	SulfideCheck	DistillpHCheck	DigestBlockID
MB 240-177636/1		9012A, 9012A		50 mL	25 mL	N	N	>12	A
LCS 240-177636/2		9012A, 9012A		50 mL	25 mL	N	N	>12	A
240-49236-A-2	079SB-0384-0001-IDW	9012A, 9012A	T	50 mL	25 mL	N	N	>12	C

Lab Sample ID	Client Sample ID	Method Chain	Basis	DigestBlockPos	WCERAPHEN0L 00019				
MB 240-177636/1		9012A, 9012A		1					
LCS 240-177636/2		9012A, 9012A		2	5 mL				
240-49236-A-2	079SB-0384-0001-IDW	9012A, 9012A	T	4					

Batch Notes	
Distillation Temperature	120 Degrees C
Magnesium Chloride Lot Number	1939659
Sodium Hydroxide Reagent ID Number	1960708
Pipette ID	D1, D2
Sulfamic Acid Reagent ID Number	1930564
Sulfuric Acid Reagent ID Number	1945366

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 177730 Batch Start Date: 04/23/15 14:31 Batch Analyst: Matheny, Sarah

Batch Method: 9012A Batch End Date: 04/23/15 18:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCN.01MRL1 00184	WCCN.1CCV1 00199		
CCV 240-177730/1		9012A		2 mL	2 mL		2 mL		
CCB 240-177730/2		9012A		2 mL	2 mL				
MB 240-177636/1-A		9012A		2 mL	2 mL				
CCV 240-177730/12		9012A		2 mL	2 mL		2 mL		
CCB 240-177730/13		9012A		2 mL	2 mL				
240-49236-A-2-A	079SB-0384-0001-IDW	9012A	T	2 mL	2 mL				
CCV 240-177730/24		9012A		2 mL	2 mL		2 mL		
CCB 240-177730/25		9012A		2 mL	2 mL				
CCV 240-177730/41		9012A		2 mL	2 mL		2 mL		
CCB 240-177730/42		9012A		2 mL	2 mL				
LCS 240-177636/2-A		9012A		2 mL	2 mL				
CCV 240-177730/44		9012A		2 mL	2 mL		2 mL		
CCB 240-177730/45		9012A		2 mL	2 mL				
CCV 240-177730/50		9012A		2 mL	2 mL		2 mL		
CCB 240-177730/51		9012A		2 mL	2 mL				
MRL 240-177730/52		9012A		2 mL	2 mL	2 mL			
CCV 240-177730/53		9012A		2 mL	2 mL		2 mL		
CCB 240-177730/54		9012A		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49236-1

SDG No.:

Batch Number: 177730 Batch Start Date: 04/23/15 14:31 Batch Analyst: Matheny, Sarah

Batch Method: 9012A Batch End Date: 04/23/15 18:08

Batch Notes	
Buffer Reagent ID Number	1828100
Chloramine-T Reagent ID Number	609554
NaOH Lot #	1960708
Pipette ID	D1, D2
Pyridine-Barbituric Acid Reagent ID	1173398-1173403

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Batch Number: 71147 Batch Start Date: 04/15/15 08:50 Batch Analyst: Arauz, Horacio J

Batch Method: 353.2 (NCell) Batch End Date: 04/15/15 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNCSP 00013			
MB 320-71147/1		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		100 mL	50.00 mL				
LCS 320-71147/2		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		100 mL	50.00 mL	1 mL			
240-49236-E-3	079SB-0385-0001-SW	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	100 mL	50.00 mL				
240-49236-E-3 MS	079SB-0385-0001-SW	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	100 mL	50.00 mL	1 mL			
240-49236-E-3 MSD	079SB-0385-0001-SW	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	100 mL	50.00 mL	1 mL			

Batch Notes	
Acetone Lot #	J.T.BAKER 0000090987
Batch Comment	Pipette EC15131; Brij solution sigma 100M6013
Centrifuge Tube	BD FALCON 24214177
Membrane Filter	Millipore R3KA82646
Millipore Water Dispense Date	4-14-15

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Batch Number: 71630 Batch Start Date: 04/21/15 06:08 Batch Analyst: Arauz, Horacio J

Batch Method: 353 (NCell-Hyd) Batch End Date: 04/21/15 08:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	AnalysisComment			
MB 320-71147/1-A		353 (NCell-Hyd), WS-WC-0050		50.00 mL	40.00 mL	PH-6,3			
LCS 320-71147/2-A		353 (NCell-Hyd), WS-WC-0050		50.00 mL	40.00 mL	PH-6,3			
240-49236-E-3-D	079SB-0385-0001-SW	353 (NCell-Hyd), WS-WC-0050	T	50.00 mL	40.00 mL	PH-6,3			
240-49236-E-3-E MS	079SB-0385-0001-SW	353 (NCell-Hyd), WS-WC-0050	T	50.00 mL	40.00 mL	PH-6,3			
240-49236-E-3-G MSD	079SB-0385-0001-SW	353 (NCell-Hyd), WS-WC-0050	T	50.00 mL	40.00 mL	PH-6,3			

Batch Notes	
0.45 Filter Vendor/Lot	Millipore R4NA21509
Batch Comment	Pipette EC15131; Brij solution sigma 100M6013
Centrifuge Tube	BD FALCON 24214177
Sulfuric Acid Lot Number	263550
Millipore Water Dispense Date	4-14-15
NaOH Lot #	361079

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49236-1

SDG No.:

Batch Number: 71741 Batch Start Date: 04/21/15 14:19 Batch Analyst: Baynes, Jason

Batch Method: WS-WC-0050 Batch End Date: 04/21/15 15:03

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC-353.2-ICV 00046	WC-353.2-L1 00051	WC-353.2-L4 00042			
ICV 320-71741/9		WS-WC-0050		# mL					
MRL 320-71741/11		WS-WC-0050			# mL				
CCV 320-71741/22		WS-WC-0050				# mL			

Batch Notes	
Nitrocellulose Assay	0.120
Color Reagent 1 ID	WC-353.2Color_00007 e. 06/30/15
NO2/NO3 Indicator ID #	WC-NOxBuffer_00021 e. 10/01/15

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

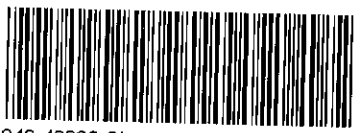
Subcontract Data

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS


240-49236 Chain of Custody

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TestAmerica Canton
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Chain of Custody Record

Test America Project #: 24009157

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Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Al Easterday	Site Contact: Jeff Donovan	4/10/2015	COC No: 006
Environmental Chemical Corp.	Tel/Fax: 508-229-2270 Ext 22109	Lab Contact: Mark Loeb	Carrier: Lab Pick up	1 of 1 COCs
33 Boston Post Rd. W	**Analysis Turnaround Time**			**For Lab Use Only:**
Marlborough, MA, 01752	☑CALENDAR DAYS ☐WORKING DAYS			Walk-in Client:
508-229-2270	TAT if different from Below = 3 weeks			Lab Sampling:
508-229-7737 (fax)	☐ 2 weeks			
Project Name: Ravenna Army Ammunition Plant	☐ 1 week			Job / SDG No.:
Site: CC RVAAP-79 Main Storage Area	☐ 2 days			
P O # 5141.004	☐ 1 day			Sampler:MG -AW

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SW8260B / 5035	SW8270C / SVOC	SW6020 / TAL Metals	SW8082 / PCB	SW8081A / Pesticides	SW8330B / Explosives	SW8330 - Nitroguanidine	Propellant - Nitrocellulose	SW71471A/ Mercury	SW8260B/5030	Full TCLP	Corrosivity	Flashpoint	Total Cyanide/Reactivity	Total Sulfide/Reactivity	Total Cyanide/Reactivity	Total Sulfide/Reactivity		Sample Specific Notes:
079SB-0383-0001-IDW	10-Apr-15	0800	G	SO	2	N	N											X	X	X	X	X				IDW - Soils
079SB-0384-0001-IDW	10-Apr-15	0830	G	W	8	N	N											X	X	X			X	X		IDW - Liquids
079SB-0385-0001-SW	10-Apr-15	0845	G	W	13	N	N		X	X	X	X	X	X	X	X										Source Water
079SB-0386-0001-RB	10-Apr-15	0850	G	W	1	N	N			X						X										Rnsate Blank - CC79
069SB-0387-0001-RB	10-Apr-15	0900	G	W	2	N	N										X									Rinsate Blank - CC69
079SB-0388-0001-TB	10-Apr-15	0730	Lab Supplied	DI	2	N	N										X									Trip Blank
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= MeOH; 7=DI Water								1,6,7	1	1	1	1	1	1	1	1	1,2	1	1	1	1	1	1.5	1,8		

Possible Hazard Identification: 8 = Zn Acetate

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Full TCLP = VOC, SVOC, Metals, Pesticides, Herbicides

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TEC	4-10-15	[signature]	TestAm	4-10-2015 1338
Relinquished by: [signature]	Company: TestAm 4-10-15	Date/Time: 1421	Received by: [signature]	Company: TA	Date/Time: 4-10-15 1421
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.1, dated 02/20/2013

TestAmerica Canton Sample Receipt Form/Narrative Login # : 49236
Canton Facility

Client ECC Site Name

Cooler Received on 4-10-15 Opened on 4-10-15

Cooler unpacked by:

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off ~~TestAmerica Courier~~ Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box ~~Other~~

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   - ~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~
   - IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
   - ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~
   - IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

   ☑ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 8 Yes No
   - -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   - -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the sampler(s) clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC425511
12. Were VOAs on the COC? Yes ~~No~~ AM 4/14/15
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: AM

Sample 07958-0385-0001-SW rec'd 3x40 for VOCs, not on COC! OK to log VOCs per client. gdj 4-14-15

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login # : 49236

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	4	3.6	4.1	ICE
↓	↓	4.8	5.3	↓
		3.0	3.5	
↓	↓	3.2	3.7	↓

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
079SB-0384-0001-IDW	240-49236-A-2	Plastic 250ml - with Sodium Hydro>	>12	_____	_____
079SB-0384-0001-IDW	240-49236-B-2	Plastic 500ml - with Zn Acetate and	>9	_____	_____
079SB-0385-0001-SW	240-49236-D-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
079SB-0386-0001-RB	240-49236-A-4	Plastic 250ml - with Nitric Acid	<2	_____	_____

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-49236-1

Login Number: 49236
List Number: 2
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 04/11/15 02:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	